Publications Hybrigenics Services

2026

Plant Biology

GOLDEN2-Like 1 Orthologs Are Conserved Susceptibility Targets of Bemisia tabaci in Arabidopsis and Tomato

Paula J. M. van Kleeff, Eva van Doore, Marieke Mastop, Jeremy Liu, Juliette Silven, and Robert C. Schuurink

(2026) APS Online Publications, https://doi.org/10.1094/MPMI-05-25-0059-R

2026

Nanobodies

A Proline-Rich-Domain-Binding Single Domain Antibody Selectively Inhibits RNA-Induced Phase Separation of Tau

Simon Thiou, Leslie Martin, Evangelia Manousaki, Marine Nguyen, Justine Mortelecque, Leila Heidsieck, François-Xavier Cantrelle, David Blum, Valérie Buée-Scherrer, Luc Buée, Isabelle Landrieu, Elian Dupré, and Clément Danis

(2026) ACS Chemical Neuroscience Article
https://pubs.acs.org/doi/abs/10.1021/acschemneuro.6c00110

2026

Development

A Caenorhabditis elegans spatiotemporal proximity atlas reveals the MAPK p38 as a generator of phenotypic plasticity in vivo

Wang Yuan, Luke A. Nunamaker, Yi M. Weaver, and Benjamin P. Weaver

(2026) Science Signaling 5 May 2026 Vol 19, Issue 936 DOI: 10.1126/scisignal.aeb4530

2026

Nanobodies

Selective Nanobody-Derived Minibodies Targeting Galectin-1 and -7 Reveal Non-Redundant Glyco-Immune Functions and Therapeutic Potential in Triple-Negative Breast Cancer

Rita Nehmé,Marlène Fortier,Philippine Granger, Joly de Boissel,France Caza,Fanny Fronton,Léa Bourguignon,Tania Charpentier,Camille Fuselier,Sophia Ferchiou,Noémie D'Auteuil,Louis Gaboury,Alain Lamarre,David Chatenet,Yves St-Pierre

(2026) Journal of Medicinal Chemistry, American Chemical Society SN - 0022-2623 M3 - https://doi.org/10.1021/acs.jmedchem.6c00142

2026

Virology - Plant Biology

Attenuation of cell-cell movement of tobamoviruses by the C-terminal GPI signal peptide of arabinogalactan protein FLA8

Yumin Kan, Phu-Tri Tran, Benoıˆt Lacroix, Vitaly Citovsky

(2026) Current Biology 36, 1–10 May 4, https://doi.org/10.1016/j.cub.2026.03.06

2026

Cell Biology - Development

Drak is a potential binding partner of Drosophila Filamin

Riku O. Korkiamäki, Chandan Thapa, Hannah J. Green, Jari Ylänne

(2026) Biology Open bio.062185. https://doi.org/10.1242/bio.062185

2026

Virolology

A cluster of acidic residues in the cytoplasmic domain of SARS-CoV-2 Spike is required for virion-incorporation and infectivity

Charlotte A. Stoneham, Rajendra Singh, Amalia De Leon, Petra Tafelmeyer, Francisco Acosta, Angus Fuori, Michael Anderson, Peter W. Ramirez, Hannah S. Schwartzer-Sperber, Satish Pillai, Mary K. Lewinski, John Guatelli

(2026) Plos One, March 12 https://doi.org/10.1371/journal.pone.0340644

2026

Microbiology

Anaplasma phagocytophilum invasin AipB interacts with the β2 integrin β-subunit CD18 to orchestrate infection

Mary Clark H. Lind, Waheeda A. Naimi, Jason R. Hunt, Jerilyn R. Izac, Richard T. Marconi, Jason A. Carlyon

(2026) Host - Microbial Interactions, mBio 0:e03853-25. https://doi.org/10.1128/mbio.03853-25

2026

Plant Biology - Cell Biology

A lineage-specific selective autophagy receptor module mediates P-body turnover

Alibek Abdrakhmanov, Elizabeth Ethier, Aleksandra S. Anisimova, Nenad Grujic, Ranjith K. Papareddy, Marion Clavel, G. Elif Karagöz, Erinc Hallacli, Yasin Dagdas

(2026) Developmental Cell, ISSN 1534-5807, https://doi.org/10.1016/j.devcel.2026.01.017

2026

Cell Biology - Immunology

First Glance at Myeloid Leukaemia Factor 2 in Cardiomyocytes

Jakob Christoph Voran, Lucia Sophie Kilian, Simone Martini, Marcin Luzarowski, Marie Isabel Noormalal, Oliver Josef Müller,Ashraf Yusuf Rangrez and Derk Frank

(2025) J. Cardiovasc. Dev. Dis., 13(1), 19; https://doi.org/10.3390/jcdd13010019

2026

Nanobodies

Selection and Optimization Strategy for Rap1-Targeting Single Domain Antibodies as Platelet Activation markers

Marie-Christine Alessi, Maxime Moulard, Daniele Boulay-Moine, Cyril Pons, Marielle Margier, Cléa Vessière, Marjorie Poggi, Theo Pigaglio, Francoise Dignat George, Alain Roussel, Stéphane Burtey, Laurent Bonello, Patrick Chames, Remi Bonjean, Franck Peiretti

(2025) Research and Practice in Thrombosis and Haemostasis, DOI: https://doi.org/10.1016/j.rpth.2025.103294

2026

Plant Biology

Arabidopsis Microtubule-BRI1 Associated Proteins negatively regulate hypocotyl elongation by controlling brassinosteroid-dependent cortical microtubule reorientation

Charlotte Delesalle, Alvaro Montiel-Jorda, Rakuri Aiba, Julien Spielmann, Julie Neveu, Satoshi Fujita, Grégory Vert

(2025) Plant Communications, DOI: https://doi.org/10.1016/j.xplc.2025.101637

2026

Molecular Biology

A General Synthesis Approach to Double-Guanidinium Stapled Peptides and Foldamers

Maxime Neuville, Marta Martin Bornez, Mathieu Bourgeais, Hugues Samueli, Laura Mauran, Sébastien R. Goudreau, Abdel-Majid Khatib, Gilles Guichard, and Morgane Pasco

(2025) ChemEurJ Research Article doi.org/10.1002/chem.202502273

2026

Microbiology - Cell Biology

Structural and functional characterization of TgGSK3, a druggable kinase in Toxoplasma gondii

Silvia Diaz-Martin, Christopher Swale, Valeria Bellini, Irina Dobrescu, Janine Wenker, Marie-Pierre Brenier-Pinchart, Laurence Braun, Alwéna Tollec, Charlotte Corrao, Yohann Couté, Caroline Mas, Fabrice Laurent, Matthew Bowler, Mohamed-Ali Hakimi & Alexandre Bougdour

(2025) Nature Communications, 16, Article number: 9765, https://doi.org/10.1038/s41467-025-64701-7

2026

Development - Plant Biology

Phosphorus availability controls flowering time through subcellular reprogramming of bGLU25 and GRP7 in Arabidopsis

Huikyong Cho, Ilyeong Choi, Nadia Bouain, Amjad Nawaz, Luqing Zheng, Zaigham Shahzad, Federica Brandizzi, Seung Y. Rhee, Hatem Rouached

(2025) Developmental Cell, ISSN 1534-5807, https://doi.org/10.1016/j.devcel.2025.10.005

2026

Plant Biology

Structure-guided secretome analysis of gall-forming microbes offers insights into effector diversity and evolution

Soham Mukhopadhyay, Muhammad Asim Javed, Jiaxu Wu, Edel Perez-Lopez

(2025) eLife Plant Biology, Oct 7, https://doi.org/10.7554/eLife.105185.3

2026

Plant Biology

Attenuation of cell-cell movement of tobamoviruses by the C-terminal GPI signal peptide of arabinogalactan protein FLA8

Yumin Kan, Phu-Tri Tran, Benoît Lacroix, Vitaly Citovsky

(2026) Current Biology 36, 1–10 May 4, https://doi.org/10.1016/j.cub.2026.03.065

2026

Cell Biology - Development

Drak is a potential binding partner of Drosophila Filamin

Riku O. Korkiamäki, Chandan Thapa, Hannah J. Green, Jari Ylänne

(2026) Biology Open bio.062185. https://doi.org/10.1242/bio.062185

2026

Virology

A cluster of acidic residues in the cytoplasmic domain of SARS-CoV-2 Spike is required for virion-incorporation and infectivity

Charlotte A. Stoneham, Rajendra Singh, Amalia De Leon, Petra Tafelmeyer, Francisco Acosta, Angus Fuori, Michael Anderson, Peter W. Ramirez, Hannah S. Schwartzer-Sperber, Satish Pillai, Mary K. Lewinski, John Guatelli

(2026) Plos One, March 12 https://doi.org/10.1371/journal.pone.0340644

2026

Microbiology

Anaplasma phagocytophilum invasin AipB interacts with the β2 integrin β-subunit CD18 to orchestrate infection

Mary Clark H. Lind, Waheeda A. Naimi, Jason R. Hunt, Jerilyn R. Izac, Richard T. Marconi, Jason A. Carlyon

(2026) Host - Microbial Interactions, mBio 0:e03853-25. https://doi.org/10.1128/mbio.03853-25

2026

Plant Biology - Cell Biology

A lineage-specific selective autophagy receptor module mediates P-body turnover

Alibek Abdrakhmanov, Elizabeth Ethier, Aleksandra S. Anisimova, Nenad Grujic, Ranjith K. Papareddy, Marion Clavel, G. Elif Karagöz, Erinc Hallacli, Yasin Dagdas

(2026) Developmental Cell, ISSN 1534-5807, https://doi.org/10.1016/j.devcel.2026.01.017

2025

Cell Biology - Immunology

First Glance at Myeloid Leukaemia Factor 2 in Cardiomyocytes

Jakob Christoph Voran, Lucia Sophie Kilian, Simone Martini, Marcin Luzarowski, Marie Isabel Noormalal, Oliver Josef Müller,Ashraf Yusuf Rangrez and Derk Frank

(2025) J. Cardiovasc. Dev. Dis., 13(1), 19; https://doi.org/10.3390/jcdd13010019

2025

Nanobodies

Selection and Optimization Strategy for Rap1-Targeting Single Domain Antibodies as Platelet Activation markers

Marie-Christine Alessi, Maxime Moulard, Daniele Boulay-Moine, Cyril Pons, Marielle Margier, Cléa Vessière, Marjorie Poggi, Theo Pigaglio, Francoise Dignat George, Alain Roussel, Stéphane Burtey, Laurent Bonello, Patrick Chames, Remi Bonjean, Franck Peiretti

(2025) Research and Practice in Thrombosis and Haemostasis, DOI: https://doi.org/10.1016/j.rpth.2025.103294

2025

Plant Biology

Arabidopsis Microtubule-BRI1 Associated Proteins negatively regulate hypocotyl elongation by controlling brassinosteroid-dependent cortical microtubule reorientation

Charlotte Delesalle, Alvaro Montiel-Jorda, Rakuri Aiba, Julien Spielmann, Julie Neveu, Satoshi Fujita, Grégory Vert

(2025) Plant Communications, DOI: https://doi.org/10.1016/j.xplc.2025.101637

2025

Molecular Biology

A General Synthesis Approach to Double-Guanidinium Stapled Peptides and Foldamers

Maxime Neuville, Marta Martin Bornez, Mathieu Bourgeais, Hugues Samueli, Laura Mauran, Sébastien R. Goudreau, Abdel-Majid Khatib, Gilles Guichard, and Morgane Pasco

(2025) ChemEurJ Research Article doi.org/10.1002/chem.202502273

2025

Microbiology - Cell Biology

Structural and functional characterization of TgGSK3, a druggable kinase in Toxoplasma gondii

Silvia Diaz-Martin, Christopher Swale, Valeria Bellini, Irina Dobrescu, Janine Wenker, Marie-Pierre Brenier-Pinchart, Laurence Braun, Alwéna Tollec, Charlotte Corrao, Yohann Couté, Caroline Mas, Fabrice Laurent, Matthew Bowler, Mohamed-Ali Hakimi & Alexandre Bougdour

(2025) Nature Communications, 16, Article number: 9765, https://doi.org/10.1038/s41467-025-64701-7

2025

Development - Plant Biology

Phosphorus availability controls flowering time through subcellular reprogramming of bGLU25 and GRP7 in Arabidopsis

Huikyong Cho, Ilyeong Choi, Nadia Bouain, Amjad Nawaz, Luqing Zheng, Zaigham Shahzad, Federica Brandizzi, Seung Y. Rhee, Hatem Rouached

(2025) Developmental Cell, ISSN 1534-5807, https://doi.org/10.1016/j.devcel.2025.10.005

2025

Plant Biology

Structure-guided secretome analysis of gall-forming microbes offers insights into effector diversity and evolution

Soham Mukhopadhyay, Muhammad Asim Javed, Jiaxu Wu, Edel Perez-Lopez

(2025) eLife Plant Biology, Oct 7, https://doi.org/10.7554/eLife.105185.3

2025

Plant Biology

MADS-BOX PROTEIN3 acts cooperatively with AGAMOUS-like6 and MADS-BOX PROTEIN22 to suppress parthenocarpy in tomato

Jackson Khedia, Hawi Deressa Kenea, Oscar Castaneda-Méndez, Victoria Kwarteng, Daniel Feder, Ortal Galsurker, Rivka Barg, Erich Grotewold, Tzahi Arazi

(2025) Plant Physiology, Volume 199, Issue 1, September https://doi.org/10.1093/plphys/kiaf363

2025

Cell Biology - Molecular Biology

KLK15 Alters Connective Tissues in Hypermobile Ehlers-Danlos Syndrome

Gensemer, C., Petrucci, T., Beck, T., Daylor BFA, V., Griggs, M., Griggs, C., Weintraub, A., Byerly, K., Guo, L., Morningstar, J., Kornblau, I., Biggs, R., Moore, K., Koren, N., Hastings, C., Oberlies, E., Zientara, E.R., Devey, E., Dooley, S., Stayer, K., Fenner, R., Singleton, K., Luzbetak, S., Bear, D., Byrd, R., Weninger, J., Bistran, E., Beeson, G., Kerns, J., Osterhaus, M., Fleck, E., Schnaudigel, J., Butler, S., Severance, S., Kendall, W., Delaney, J.R, Judge, D.P., Chen, P., Yao, H., Guz, J., Awgulewitsch, A., Kautz, S.A., Mukherjee, R., Price, R., Henderson Sr., F., Shapiro, S., Francomano, C.A., Kovacic, J.C, Lavallee, M., Kontorovich, A.R, Berrandou, T.-E., Slaugenhaupt, S.A., Milan, D., Maitland, A., Patel, S., Bouatia-Naji, N., Norris, R.A

(2025) iScience 8 August, https://doi.org/10.1016/j.isci.2025.113343

2025

Development - Neuroscience

Expression and function of new candidate regulators of placodal neurogenesis in Xenopus laevis

Bertrand Hutlet, Gerhard Schlosser

(2025) Developmental Biology, https://doi.org/10.1016/j.ydbio.2025.08.026

2025

Molecular Biology - Cell Biology

Direct connexin-26 interactions with membrane proteins functionally relevant to the cochlea

Jennifer Costa Leoncio, Ana Carla Batissoco, Thiago Geronimo Pires Alegria, Fernando Gomes, Luis Eduardo Soares Netto, Regina Célia Mingroni-Netto & Luciana Amaral Haddad

(2025) Hum. Genet. https://doi.org/10.1007/s00439-025-02769-3

2025

Microbiology - Cell Biology

Development of mRNA–lipid nanoparticle intrabodies against rickettsial infection

Qi Yan, Nan Duan, Mingqun Lin, Wenqing Zhang, Stephen Denton, Yichen Zhong, Yizhou Dong & Yasuko Rikihisa

(2025) Journal of Biomedical Science volume 32, Article number: 76
https://doi.org/10.1186/s12929-025-01171-5

2025

Plant Biology

A transcription factor ensemble orchestrates bundle sheath expression in rice

Lei Hua, Na Wang, Susan Stanley, Ruth M. Donald, Satish Kumar Eeda, Kumari Billakurthi, Ana Rita Borba & Julian M. Hibberd

(2025) Nature Communications volume 16, Article number: 7040
https://doi.org/10.1038/s41467-025-62087-0

2025

Development

Alternative splicing repurposes the Drosophila mitotic regulator Mud for meiotic functions

Tara M Finegan , Kevin Deem , Ruiyue Tan , Nicholas Lowe , Nicholas Weeks , Michael W Linhoff , Xuke Wang , Isabel López-Molini , Anne Benraiss , Dan T Bergstralh

(2025) Genetics, iyaf145, https://doi.org/10.1093/genetics/iyaf145

2025

Virology - Nanobodies

Bivalent single-domain antibodies show potent mpox virus neutralization through M1R antigen

Daisuke Akazawa, Masayuki Shimojima, Eun-Sil Park, Akiko Okutani, Milagros Virhuez-Mendoza, Yusuke Inoue, Takayuki Hishiki, Ken Maeda, Hideki Ebihara, Yoshimasa Takahashi & Koichi Watashi

(2025) Communications Biology 8, 1073 (2025). https://doi.org/10.1038/s42003-025-08494-x

2025

Microbiology - Cell Biology

A glyoxal-specific aldehyde signaling axis in Pseudomonas aeruginosa that influences quorum sensing and infection

Christopher J. Corcoran, Bonnie J. Cuthbert, David G. Glanville, Mailyn Terrado, Diana Valverde Mendez, Benjamin P. Bratton, Daniel E. Schemenauer, Valerie L. Tokars, Thomas G. Martin, Lawrence W. Rasmussen, Matthew C. Madison, Andrew F. Maule, Joshua W. Shaevitz, Boo Shan Tseng, Julian P. Whitelegge, Catherine Putonti, Amit Gaggar, Jordan R. Beach, Jonathan A. Kirk, Alfonso Mondragón, Abby R. Kroken, Jonathan P. Allen, Celia W. Goulding & Andrew T. Ulijasz

(2025) Nature Communications 16, 6616 (2025). https://doi.org/10.1038/s41467-025-61469-8

2025

Molecular Biology - Cell Biology

A diverse interactome of the molecular chaperone CCT/TRiC monomers

Carmen M Córdoba-Beldad , Julie Grantham

(2025) European Journal of Cell Biology, 2025, 151506, ISSN 0171-9335, https://doi.org/10.1016/j.ejcb.2025.151506

2025

Nanobodies

Development and Use of a Galectin-1-Specific Nanobody for Tumor Imaging and Elucidating the Role of Galectin-1 in Cancer

Philippine Granger Joly de Boissel, Rita Nehmé, Marlène Fortier, Myriam Létourneau, Brigitte Guérin, Véronique Dumulon-Perreault, Samia Ait-Mohand, Otman Sarrhini, Camille Fuselier, Alyssa Dumoulin, David Chatenet, Nicolas Doucet, Yves St-Pierre

(2025) ACS Pharmacol. Transl. Sci. https://doi.org/10.1021/acsptsci.5c00178

2025

Plant Biology - Microbiology

A Salivary Effector of the Pea Aphid Interacts with Pea Proteins and Enhances Its Performance on the Host Plant

Po-Yuan Shih, Stephanie Le Bras, Remi Ollivier, Helene Boulain, Stephanie Morliere, Yannick Outreman, Jean-Christophe Simon, and Akiko Sugio

(2025) APS Online Publications, https://doi.org/10.1094/MPMI-08-24-0089-R

2025

Microbiology

The zinc metalloprotein MigC impacts cell wall biogenesis through interactions with an essential Mur ligase in Acinetobacter baumannii

Jeanette M. Critchlow ,Joseph S. Rocchio ,Melanie C. McKell,Courtney J. Campbell,Juan P. Barraza,Evan S. Krystofiak,Erin R. Green,Tae Akizuki,Walter J. Chazin,Michael S. VanNieuwenhze,Timothy L. Stemmler,David P. Giedroc ,Eric P. Skaar

(2025) PLoS Pathog 21(6): e1013209. https://doi.org/10.1371/journal.ppat.1013209

2025

Development - Cell Biology

TANGO2 binds crystallin alpha B and its loss causes desminopathy

Maike Stentenbach, Laetitia A. Hughes, Samuel V. Fagan, Blake Payne, Danielle L. Rudler, Stefan J. Siira, Tim McCubbin, Anaëlle Chopin, Kara L. Perks, Judith A. Ermer, James Hendry, Teagan S. Er, Shanti Balasubramaniam, Joel A. Eliades, Livia C. Hool, Nicolle H. Packer, Edward S. X. Moh, Benjamin S. Padman, Oliver Rackham & Aleksandra Filipovska

(2025) Nature Communications volume 16, Article number: 5261, doi.org/10.1038/s41467-025-60563-1

2025

Metabolism - Cell Biology

Searching for protein partners of short-chain 3-hydroxyacyl-CoA dehydrogenase (SCHAD) reveals keratin 8 as a novel candidate for interaction in pancreatic β-cells

Kelly Velasco, Janniche Torsvik, Johanna L. St-Louis, Sarah Baghestani, Jonas S. G. Silvander, Rohit N. Kulkarni, Diana M. Toivola & Anders Molven

(2025) BMC Mol and Cell Biol 26, 18 . https://doi.org/10.1186/s12860-025-00544-w

2025

Development - Cell Biology

The third intracellular loop of Drosophila Lilipod is required for protein function in vivo and can mediate protein-protein interactions in vitro

Merin Vellooparambil Roy, Scott J. Neal, Francesca Pignoni

(2025) Plos One, Published: June 4, https://doi.org/10.1371/journal.pone.0325326

2025

Metabolism - Molecular Biology

Mitochondrial PTRH2 controls the deubiquitinase TRABID to regulate mt-ND5 stability and metabolism

Carlotta Giorgi, Femke J. Aan, Natalija Glibetic, Daniela Ramaccini, Lorenzo Modesti, Veronica A. M. Vitto, Vanessa Montoya-Uribe, Austin Corpuz, Sonia Missiroli, Inês Simões, Yaiza Potes, Mariusz R. Wieckowski, Joe W. Ramos, Paolo Pinton, and Michelle L. Matte

(2025) PNAS Nexus, pgaf178, https://doi.org/10.1093/pnasnexus/pgaf178

2025

Development

PNUTS:PP1 recruitment to Tox4 regulates chromosomal dispersal in Drosophila germline development

Louise Duncalf, Xinru Wang, Abdulrahman A. Aljabri, Amy E. Campbell, Rawan Q. Alharbi, Ian Donaldson3 · Andrew Hayes, Wolfgang Peti, Rebecca Page, Daimark Bennett

(2025) Cell Reports, Article Volume 44, Issue 5115693 May 27
https://doi.org/10.1016/j.celrep.2025.115693

2025

Cell Biology - Plant Biology

Maize unstable factor for orange1 encodes a nuclear protein that affects redox accumulation during kernel development

Debamalya Chatterjee, Ziru Zhang, Pei-Yu Lin, Po-Hao Wang, Gurpreet K. Sidhu, Neela H. Yennawar, Jo-Wei Allison Hsieh, Pao-Yang Chen, Rentao Song, Blake C. Meyers, Surinder Chopra

(2025) The Plant Cell, 2025, 37, koae301 https://doi.org/10.1093/plcell/koae301

2025

Nanobodies

Development and Characterization of a Novel NEIL1 Nanobody

Marlo K. Thompson, Mark H. Eggers, Danielle Flores, Israel Valenzuela, Zhengrong Yang, Joel F. Andrews, Tom Johnsten, Aishwarya Prakash

(2025) DNA Repair, https://doi.org/10.1016/j.dnarep.2025.103849

2025

Cell Biology - Neuroscience

Reticulon-dependent ER-phagy mediates adaptation to heat stress in C. elegans

Claudia Serot, Vincent Scarcelli, Alexandre Pouget, Céline Largeau, Audrey Sagot, Kenza El-Hachami, Denis Dupuy, Emmanuel Culetto, Christophe Lefebvre, Renaud Legouis

(2025) Curret Biology, DOI: 10.1016/j.cub.2025.04.028

2025

Cancer Research

Re-epithelialization of cancer cells increases autophagy and DNA damage: Implications for breast cancer dormancy and relapse

Diana Drago-Garcia, Suvendu Giri, Rishita Chatterjee, Arturo Simoni-Nieves, Maha Abedrabbo, Alessandro Genna, Mary Luz Uribe Rios1, Moshit Lindzen, Arunachalam Sekar, Nitin Gupta, Noa Aharoni, Tithi Bhandari, Agalyan Mayalagu, Luisa Schwarzmüller, Nooraldeen Tarade, Rong Zhu, Harsha-Raj Mohan-Raju, Feride Karatekin, Francesco Roncato, Yaniv Eyal-Lubling, Tal Keidar, Yam Nof, Nishanth Belugali Nataraj, Karin Shira Bernshtein, Bettina Wagner, Nishanth Ulhas Nair, Neel Sanghvi, Ronen Alon, Rony Seger, Eli Pikarsky, Sara Donzelli, Giovanni Blandino, Stefan Wiemann, Sima Lev, Ron Prywes, Dalit Barkan, Oscar M. Rueda, Carlos Caldas, Eytan Ruppin, Yosef Shiloh, Maik Dahlhoff, Yosef Yarden

(2025) Science Signaling 22 Apr Vol 18, Issue 883 https://doi.org/10.1126/scisignal.ado3473

2025

Cell Biology

Rab32 regulates Golgi structure and cell migration through Protein Kinase A–mediated phosphorylation of Optineurin

Katherine M. Johnson, Maxwell G. Marley, Kristina Drizyte-Miller, Jing Chen, Hong Cao, Nourhan Mostafa, Micah, B. Schott, Mark A. McNiven, Gina L. Razidlo

(2025) PNAS, Cell Biology, April 21, 122 (17) e2502971122

https://doi.org/10.1073/pnas.250297112

2025

Nanobodies

ABCD_AZ756 and ABCD_AZ757 antibodies recognize Dictyostelium ubiquitinated proteins by western blot

Hiba Zein El Dine

(2025) Antibody Reports, Vol. 8 No. 1, https://doi.org/10.24450/journals/abrep.2025.e1818

2025

Nanobodies - Cancer Research

Development of Galectin-7-Specific Nanobodies: Implications for Immunotherapy and Molecular Imaging in Cancer

Rita Nehmé, Marlène Fortier, Myriam Létourneau, Camille Fuselier, Philippine Granger Joly de Boissel, Alyssa Dumoulin, Brigitte Guérin, Véronique Dumulon-Perreault, Samia Ait-Mohand,

Otman Sarrhini, Sacha T. LardaYarileny , Castellanos Villamizar, Mighel Bernier, Natalia Porębska, Łukasz Opaliński, David Chatenet, Nicolas Doucet and Yves St-Pierre

(2025) Journal of Medicinal Chemistry, DOI: 10.1021/acs.jmedchem.5c00071

2025

Immunology - Development

Conserved chromatin regulators control the transcriptional immune response to intracellular pathogens in Caenorhabditis elegans

Eillen Tecle, Paaramitha Warushavithana, Samuel Li, Michael J. Blanchard, Crystal B. Chhan, Theresa Bui, Ryan S. Underwood, Malina A. Bakowski, Emily R. Troemel ,Vladimir Lažetić

(2025) Plos Genetics, https://doi.org/10.1371/journal.pgen.1011444

2025

Cancer Research - Cell Biology - Nanobodies

Role of TRIM24 in the regulation of proteasome-autophagy crosstalk in bortezomib-resistant mantle cell lymphoma

Corentin Bouvier, Maria Gonzalez-Santamarta, Núria Profitós-Pelejà, Marc Armengol, Grégoire Quinet, Quentin Alasseur, Laurie Ceccato, Wendy Xolalpa, Raimundo Freire, Julie Guillermet-Guibert, Karine Reybier, Anne-Marie Caminade, Hans C. Beck, Ana Sofia Carvalho, Rune Matthiesen, Jean Christophe Rain, James D. Sutherland, Rosa Barrio, Gaël Roué & Manuel S. Rodriguez

(2025) Cell Death Discov. 11, 108. https://doi.org/10.1038/s41420-025-02355-6

2025

Neuroscience - Cell Biology

Paralemmin-1 controls the nanoarchitecture of the neuronal submembrane cytoskeleton

Victor Macarrón-Palacios, Jasmine Hubrich, Maria Augusta do Rego Barros Fernandes Lima, Nicole G. Metzendorf, Simon Kneilmann, Marleen Trapp, Claudio Acuna, Annarita Patrizi, Elisa D'Este, Manfred W. Kilimann

(2025) Science Advances 7 Mar 2025 Vol 11, Issue 10 https://doi.org/10.1126/sciadv.adt3724

2025

Cell Biology - Immunology

Optimal Stapling of a Helical Peptide-Foldamer Hybrid Using a C-terminal 4-Mercaptoproline Enhances Protein Surface Recognition and Cellular Activity

Maxime Neuville, Mathieu Bourgeais, Jérémie Buratto, Claire Saragaglia, Bo Li, Isabel Galeano-Otero, Laura Mauran, Laetitia Varajao, Sébastien R. Goudreau, Brice Kauffmann, Emmanuelle Thinon, Morgane Pasco, Abdel-Majid Khatib, and Gilles Guichard

(2025) Chem. Eur. J. 2025, e202403330 https://doi.org/10.1002/chem.202403330

2025

Immunology - Cell Biology

HMCN1 variants aggravate epidermolysis bullosa simplex phenotype

Shir Bergson , Ofer Sarig , Moshe Giladi , Janan Mohamad , Mariana Mogezel-Salem , Karina Smorodinsky-Atias , Ofir Sade , Bar Manori , Sari Assaf , Kiril Malovitski , Yarden Feller , Mor Pavlovsky , Stefan Hainzl , Thomas Kocher , Julia I. Hummel , Noy Eretz Kdosha , Lubna Gazi Khair , Roland Zauner , Josefina Pinon Hofbauer , Ruby Shalom-Feuerstein , Verena Wally , Ulrich Koller , Liat Samuelov , Yoni Haitin , Uri Ashery , Rotem Rubinstein

(2025) J Exp Med (2025) 222 (5): e20240827. https://doi.org/10.1084/jem.20240827

2024

Molecular Biology

Cell-Permeable Peptide Inhibitors of the p53-hDM2 Interaction via Foldamer Helix Mimicry and Bis-Thioether Stapling

Maxime Neuville Maxime Neuville Univ. Bordeaux, CNRS, Bordeaux INP, CBMN, UMR 5248, IECB, F-33607 Pessac, France IMMUPHARMA BIMaxime Neuville, Mathieu Bourgeais, Bo Li, Laetitia Varajao, François Hallé, Sébastien R. Goudreau, Emmanuelle Thi, 0non, Morgane Pasco, Abdel-Majid Khatib, Gilles Guichard

(2024) ACS Journal of Medicinal Chemistry doi.org/10.1021/acs.jmedchem.4c01762

https://pubs.acs.org/doi/10.1021/acs.jmedchem.4c01762

2024

Cell Biology - Molecular Biology

Guanidinium-Stapled Helical Peptides for Targeting Protein-Protein Interactions

Camille Perdriau, Anaïs Luton, Katharina Zimmeter, Maxime Neuville, Claire Saragaglia, Carole Peluso-Iltis, Judit Osz, Brice Kauffmann, Gavin W Collie, Natacha Rochel, Gilles Guichard, Morgane Pasco

(2024) GDHc Journal of german Chemical Society, https://doi.org/10.1002/anie.202416348

https://onlinelibrary.wiley.com/doi/10.1002/anie.202416348

2024

Development - Molecular Biology

CCDC28A deficiency causes head-tail coupling defects and immotility in murine spermatozoa

Nena Stojanovic, Rosario Ortiz Hernández, Nayeli Torres Ramírez, Olga Margarita Echeverría Martínez, Abrahan Hernández Hernández & Hiroki Shibuya

(2024) Nature, Scientific Reports volume 14, Article number: 26808 https://doi.org/10.1038/s41598-024-78453-9

https://www.nature.com/articles/s41598-024-78453-9#:~:text=Through%20knockout%20mouse%20models%20and,)%2C%20thereby%20causing%20male%20infertility.

2024

Metabolism - Molecular Biology

GCKIII Kinases Control Hepatocellular Lipid Homeostasis via Shared Mode of Action

Emmelie Cansby, Mara Caputo, Emma Andersson, Rasool Saghaleyni, Marcus Henricsson, Ying Xia, Bernice Asiedu, Matthias Blüher, L. Thomas Svensson, Andrew J. Hoy, Margit Mahlapuu

(2024) Journal of Lipid Research, doi: https://doi.org/10.1016/ j.jlr.2024.100669.

https://www.jlr.org/article/S0022-2275(24)00174-3/fulltext

2024

Molecular Biology - Metabolism

HNF1β bookmarking involves Topoisomerase 1 activation and DNA topology relaxation in mitotic chromatin

Alessia Bagattin, Salvina Laura Tammaccaro, Magali Chiral, Munevver Parla Makinistoglu · Nicolas Zimmermann · Jonathan Lerner, Serge Garbay · Nicolas Kuperwasser, Marco Pontoglio

(2024) Cell Reports, Volume 43, Issue 10114805October 22, doi.org/10.1016/j.celrep.2024.114805

https://www.cell.com/cell-reports/fulltext/S2211-1247(24)01156-2?_returnURL=https%3A%2F%2Flinkinghub.elsevier.com%2Fretrieve%2Fpii%2FS2211124724011562%3Fshowall%3Dtrue

2024

Molecular Biology - Cell Biology

SLC26A4-AP-2 mu2 interaction regulates SLC26A4 plasma membrane abundance in the endolymphatic sac

Hyun Jae Lee, Cristina Fenollar-Ferrer, Kevin Isgrig, Ya-Xian Wang, Kerstin Valente, Juleh Eide, Keiji Honda, Wade W. Chien, Ronald S. Petralia, Lijin Dong, Thomas B. Friedman, Juan S. Bonifacino , Andrew J. Griffith, and Isabelle Roux

(2024) Science Advances 9 Oct 2024 Vol 10, Issue 41 DOI: 10.1126/sciadv.adm8663

https://www.science.org/doi/10.1126/sciadv.adm8663

2024

Nanobodies

NEAT1 modulates the TIRR/53BP1 complex to maintain genome integrity

Susan Kilgas, Aleem Syed, Patrick Toolan-Kerr, Michelle L. Swift, Shrabasti Roychoudhury, Aniruddha Sarkar, Sarah Wilkins, Mikayla Quigley, Anna R. Poetsch, Maria Victoria Botuyan, Gaofeng Cui, Georges Mer, Jernej Ule, Pascal Drané & Dipanjan Chowdhury

(2024) Nature Communications volume 15, Article number: 8438, DOI: 10.1038/s41467-024-52862-w

https://www.nature.com/articles/s41467-024-52862-w

2024

Microbiology - Molecular Biology

Anaplasma phagocytophilum invasin AipA interacts with CD13 to elicit Src kinase signaling that promotes infection

Mary Clark H. Lind, Waheeda A. Naimi, Travis J. Chiarelli, Tavis Sparrer, Mallika Ghosh, Linda Shapiro, Jason A. Carlyon

(2024) Host-Microbial Interactions Research Article 26 September, DOI: https://doi.org/10.1128/mbio.01561-24

https://journals.asm.org/doi/full/10.1128/mbio.01561-24?rfr_dat=cr_pub++0pubmed&url_ver=Z39.88-2003&rfr_id=ori%3Arid%3Acrossref.org

2024

Microbiology - Molecular Biology

Orientia tsutsugamushi Ank5 promotes NLRC5 cytoplasmic retention and degradation to inhibit MHC class I expression

Haley E. Adcox, Jason R. Hunt, Paige E. Allen, Thomas E. Siff, Kyle G. Rodino, Andrew K. Ottens & Jason A. Carlyon

(2024) Nature Communications volume 15, Article number: 8069

https://www.nature.com/articles/s41467-024-52119-6

2024

Molecular Biology - Cell Biology

Interaction between the TBC1D24 TLDc domain and the KIBRA C2 domain is disrupted by two epilepsy-associated TBC1D24 missense variants

Risa Tona, Sayaka Inagaki, Yasuko Ishibashi, Rabia Faridi, Rizwan Yousaf1 · Isabelle Roux, Elizabeth Wilson, Cristina Fenollar-Ferrer, Wade W. Chien, Inna A. Belyantseva,Thomas B. Friedman

(2024) JBC 107725 August DOI: 10.1016/j.jbc.2024.107725

https://www.jbc.org/article/S0021-9258(24)02226-9/fulltext

2024

Nanobodies

SHANK3 depletion leads to ERK signalling overdose and cell death in KRAS-mutant cancers

Johanna Lilja, Jasmin Kaivola, James R. W. Conway, Joni Vuorio, Hanna Parkkola, Pekka Roivas, Michal Dibus, Megan R. Chastney, Taru Varila, Guillaume Jacquemet, Emilia Peuhu, EmilyWang, Ulla Pentikäinen, Itziar Martinez D. Posada, HellyehHamidi, Arafath K. Najumudeen , Owen J. Sansom, Igor L. Barsukov, Daniel Abankwa, Ilpo Vattulainen, Marko Salmi & Johanna Ivaska

(2024) Nature Communications volume 15, Article number: 8002

https://www.nature.com/articles/s41467-024-52326-1

2022

Metabolism - Molecular Biology - Cell Biology

The E3 ubiquitin-protein ligase Nedd4-2 regulates the sodium chloride cotransporter NCC but is not required for a potassium-induced reduction of NCC expression

Rosenbaek LL, Petrillo F, van Bemmelen MX, Staub O, Murali SK, Fenton RA.

(2022) . Front Physiol. ; 13:971251. doi: 10.3389/fphys.2022.971251. PMID: 36160843; PMCID: PMC9490057.

https://www.frontiersin.org/journals/physiology/articles/10.3389/fphys.2022.971251/full

2022

Molecular Biology - Cell Biology

A non-canonical scaffold-type E3 ligase complex mediates protein UFMylation

Peter JJ, Magnussen HM, DaRosa PA, Millrine D, Matthews SP, Lamoliatte F, Sundaramoorthy R, Kopito RR, Kulathu Y.

(2022) . EMBO J. Nov 2;41(21):e111015. doi: 10.15252/embj.2022111015. PMID: 36121123; PMCID: PMC9627666.

https://www.embopress.org/doi/full/10.15252/embj.2022111015

2024

Plant Biology - Molecular Biology

Medicago truncatula SOBIR1 controls pathogen immunity and specificity in the Rhizobium-legume symbiosis

Baptiste Sarrette, Thi-Bich Luu, Alexander Johansson, Judith Fliegmann, Cécile Pouzet, Carole Pichereaux, Céline Remblière, Laurent Sauviac, Noémie Carles, Emilie Amblard, Valentin Guyot, Maxime Bonhomme, Julie Cullimore, Clare Gough, Christophe Jacquet, Nicolas Pauly

(2024) Plant, Cell and Environment, 03 September https://doi.org/10.1111/pce.15071

https://onlinelibrary.wiley.com/doi/10.1111/pce.15071

2024

Plant Biology - Molecular Biology

Pseudouridine guides germline small RNA transport and epigenetic inheritance

Rowan P. Herridge, Jakub Dolata, Valentina Migliori, Cristiane de Santis Alves, Filipe Borges, Andrea J. Schorn, Frédéric van Ex, Ann Lin, Mateusz Bajczyk, Jean-Sebastien Parent, Tommaso Leonardi, Alan Hendrick, Tony Kouzarides & Robert A. Martienssen

(2024) Nature Structural & Molecular Biology DOI: 10.1101/2023.05.27.542553

https://www.nature.com/articles/s41594-024-01392-6

2024

Nanobody - Virology

Development of a single-domain antibody to target a G-quadruplex located on the hepatitis B virus covalently closed circular DNA genome

Gerardo B Figueroa, Simmone D'souza, Higor S Pereira, Gunjan Vasudeva, Sara B Figueroa, Zachary E Robinson, Maulik D Badmalia, Vanessa Meier-Stephenson, Jennifer A Corcoran, Guido van Marle, Yi Ni, Stephan Urban, Carla S Coffin, Trushar R Patel

(2024) J Med Virol. Jun;96(6):e29692.

https://pubmed.ncbi.nlm.nih.gov/38804172/

2024

Neuroscience

Role of a Pdlim5:PalmD complex in directing dendrite morphology

Yogesh Srivastava, Maxsam Donta, Lydia L. Mireles, Adriana Paulucci-Holthauzen, M. Neal Waxham, Pierre D. McCrea

(2024) Front. Cell. Neurosci., 13 February 2024 Sec. Cellular Neuropathology Volume 18 - 2024 | https://doi.org/10.3389/fncel.2024.1315941

https://www.frontiersin.org/journals/cellular-neuroscience/articles/10.3389/fncel.2024.1315941/full

2024

Molecular Biology - Development

A role for BYN-1/bystin in cellular uptake and clearance of residual bodies in the Caenorhabditis elegans germline

Hyemin Min, Emily L. Spaulding, Catherine S. Sharp, Pankaj Garg, Esther Jeon, Lyn S. Miranda Portillo, Noah A. Lind and Dustin L. Updike

(2024) Development 151 (19): dev202694. https://doi.org/10.1242/dev.202694

https://journals.biologists.com/dev/article-abstract/151/19/dev202694/362281/A-role-for-BYN-1-bystin-in-cellular-uptake-and?redirectedFrom=fulltext

2024

Cancer Research

CYYR1 promotes the degradation of the E3 ubiquitin ligase WWP1 and is associated with favorable prognosis in breast cancer

Tiphaine Perron, Mathieu Boissan, Ivan Bièche, Laura Courtois, Florent Dingli, Damarys Loew, Mouna Chouchène, Sabrina Colasse, Laurence Levy, Céline Prunier

(2024) J Biol Chem

https://www.jbc.org/article/S0021-9258(24)02102-1/fulltext

2024

Cell Biology

BCC0 collaborates with IMC32 and IMC43 to form the Toxoplasma gondii essential daughter bud assembly complex

Rebecca R. Pasquarelli, Jihui Sha, James A. Wohlschlegel, Peter J. Bradley

(2024) PLoS Pathog

https://journals.plos.org/plospathogens/article?id=10.1371/journal.ppat.1012411

2024

Cell Biology

GGA1 interacts with the endosomal Na+/H+ Exchanger NHE6 governing localization to the endosome compartment

Li Ma, Ravi Kiran Kasula, Qing Ouyang, Michael Schmidt, Eric M. Morrow

(2024) J Biol Chem

https://www.sciencedirect.com/science/article/pii/S0021925824020532?via%3Dihub

2024

Molecular Biology - Cell Biology - Nanobodies

Aggregate-selective removal of pathological tau by clustering-activated degraders

Jonathan Benn , Shi Cheng, Sophie Keeling, Annabel E. Smith, Marina J. Vaysburd, Dorothea Böken, Lauren V. C. Miller, Taxiarchis Katsinelos, Catarina Franco, Elian Dupré, Clément Danis, Isabelle Landrieu, Luc Buée, David Klenerman, Leo C. James, and William A. McEwan

(2024) Science 29 Aug Vol 385, Issue 6712 pp. 1009-1016 DOI: 10.1126/science.adp5186

https://www.science.org/doi/10.1126/science.adp5186

2024

Plant Biology

The root-knot nematode effector MiEFF12 targets the host ER quality control system to suppress immune responses and allow parasitism

Salomé Soulé, Kaiwei Huang, Karine Mulet, Joffrey Mejias, Jérémie Bazin, Nhat My Truong, Junior Lusu Kika, Stéphanie Jaubert, Pierre Abad, Jianlong Zhao, Bruno Favery, Michaël Quentin

(2024) Mol Plant Pathol

https://bsppjournals.onlinelibrary.wiley.com/doi/10.1111/mpp.13491

2024

Plant Biology

Alternative splicing of a potato disease resistance gene maintains homeostasis between growth and immunity

Biying Sun, Jie Huang , Liang Kong, Chuyun Gao, Fei Zhao, Jiayong Shen, Tian Wang, Kangping Li, Luyao Wang, Yuanchao Wang, Dennis A Halterman, Suomeng Dong

(2024) Plant Cell

https://pubmed.ncbi.nlm.nih.gov/38941447/

2024

Plant Biology

Posttranslational regulation of photosynthetic activity via the TOR kinase in plants

Stefano D'Alessandro, Florent Velay, Régine Lebrun, Delyan Zafirov, Marwa Mehrez, Shanna Romand, Rim Saadouni, Céline Forzani, Sylvie Citerne, Marie-Hélène Montané, Christophe Robaglia, Benoît Menand, Christian Meyer, Ben Field

(2024) Sci Adv

https://www.science.org/doi/full/10.1126/sciadv.adj3268?rfr_dat=cr_pub++0pubmed&url_ver=Z39.88-2003&rfr_id=ori%3Arid%3Acrossref.org

2024

Nanobodies

Mono- and bi-specific nanobodies targeting the CUB domains of PCPE-1 reduce the proteolytic processing of fibrillar procollagens

Priscillia Lagoutte, Jean-Marie Bourhis, Natacha Mariano, Virginie Gueguen-Chaignon, David Vandroux, Catherine Moali, Sandrine Vadon-Le Goff

(2024) J Mol Biol

https://www.sciencedirect.com/science/article/pii/S0022283624002626?via%3Dihub

2024

Cell Biology

SASH1 S519N variant links skin hyperpigmentation and premature hair graying to dysfunction of melanocyte lineage

Karoline A Lambert, Christopher M Clements, Nabanita Mukherjee, Theresa R Pacheco , Samantha X Shellman, Morkos A Henen, Beat Vögeli, Nathaniel B Goldstein, Stanca Birlea, Jennifer Hintzsche, Griffin Caryotakis, Aik-Choon Tan, Rui Zhao, David A Norris , William A Robinson, Yizhou Wang, Jillian G VanTreeck, Yiqun G Shellman

(2024) J Invest Dermatol

https://www.jidonline.org/article/S0022-202X(24)00393-2/fulltext

2024

Cell Biology

Exploiting bacterial effector proteins to uncover evolutionarily conserved antiviral host machinery

Aaron Embry, Nina S Baggett, David B Heisler, Addison White, Maarten F de Jong, Benjamin L Kocsis, Diana R Tomchick, Neal M Alto, Don B Gammon

(2024) PLoS Pathog

https://journals.plos.org/plospathogens/article?id=10.1371/journal.ppat.1012010

2024

Plant Biology

Wheat zinc finger protein TaZF interacts with both the powdery mildew AvrPm2 protein and the corresponding wheat Pm2a immune receptor

Beatrice Manser, Helen Zbinden, Gerhard Herre, Joel Steger, Jonatan Isaksson, Stephanie Bräunlic, Thomas Wicker, Beat Keller

(2024) Plant Commun

https://www.cell.com/plant-communications/fulltext/S2590-3462(23)00327-9

2024

Neuroscience

Identification of novel microcephaly-linked protein ABBA that mediates cortical progenitor cell division and corticogenesis through NEDD9-RhoA

Aurelie Carabalona, Henna Kallo, Maryanne Gonzalez, Liliia Andriichuk, Ellinoora Elomaa, Florence Molinari, Christiana Fragkou, Pekka Lappalainen, Marja W Wessels, Juha Saarikangas, Claudio Rivera

(2024) eLife

https://elifesciences.org/reviewed-preprints/92748v1

2024

Virology

FEAR antiviral response pathway is independent of interferons and countered by poxvirus proteins

Emily A Rex, Dahee Seo, Sruthi Chappidi, Chelsea Pinkham, Sabrynna Brito Oliveira, Aaron Embry, David Heisler, Yang Liu, Moiz Munir, Karolin Luger, Neal M Alto, Flávio Guimarães da Fonseca, Robert Orchard, Dustin C Hancks, Don B Gammon

(2024) Nat Microbiol

https://pubmed.ncbi.nlm.nih.gov/38538832/

2024

Nanobodies

A selection and optimization strategy for single-domain antibodies targeting the PHF6 linear peptide within the Tau intrinsically disordered protein

Justine Mortelecque, Orgeta Zejneli, Séverine Bégard, Margarida C. Simões, Lea ElHajjar, Marine Nguyen, François-Xavier Cantrelle, Xavier Hanoulle, Jean-Christophe Rain, Morvane Colin, Cláudio M. Gomes, Luc Buée, Isabelle Landrieu, Clément Danis, Elian Dupré

(2024) J Biol Chem

https://www.jbc.org/article/S0021-9258(24)01658-2/fulltext

2024

Nanobodies

Deciphering the crystal structure of a novel nanobody against the NEIL1 DNA glycosylase

Marlo K Thompson, Nidhi Sharma, Andrea Thorn, Aishwarya Prakash

(2024) Acta Crystallogr D Struct Biol

https://pubmed.ncbi.nlm.nih.gov/38289715/

2024

Metabolism

HRDE-2 drives small RNA specificity for the nuclear Argonaute protein HRDE-1

Shihui Chen, Carolyn M Phillips

(2024) Nat Commun

https://www.nature.com/articles/s41467-024-45245-8

2024

Nanobodies

AZ921 recognizes the endogenous USP7 protein by immunofluorescence in HCT116 cells

Céline Reverdy, Jean-Christophe Rain

(2024) Antibody Reports

https://oap.unige.ch/journals/abrep/article/view/1433

2023

Cell Biology

Toxoplasma gondii mitochondrial association factor 1b interactome reveals novel binding partners including Ral GTPase accelerating protein α1

Cameron J. Powell, Meredith L. Jenkins, Tara B. Hill, Matthew L. Blank, Leah F. Cabo, Lexie R. Thompson, John E. Burke, Jon P. Boyle, Martin J. Boulanger

(2023) J Biol Chem

https://www.sciencedirect.com/science/article/pii/S0021925823026108?via%3Dihub

2023

Plant Biology - Molecular Biology

Interaction of whitefly effector G4 with tomato proteins impacts whitefly performance

Diana Naalden, Wannes Dermauw, Aris Ilias, Geert Baggerman, Marieke Mastop, Juliette Silven, Paula J M van Kleeff, Sarmina Dangol, Nicolas Frédéric Gaertner, Winfried Roseboom, Mark Kwaaitaal, Gertjan Kramer, Harold van der Burg, John Vontas, Thomas Van Leeuwen, Merijn Kant, Rob Schuurink

(2023) Mol Plant Microbe Interact .Dec 5.

https://apsjournals.apsnet.org/doi/10.1094/MPMI-04-23-0045-R?url_ver=Z39.88-2003&rfr_id=ori:rid:crossref.org&rfr_dat=cr_pub%20%200pubmed

2022

Cell Biology - Development - Immunology

A pals-25 gain-of-function allele triggers systemic resistance against natural pathogens of C. elegans

Spencer S. Gang, Manish Grover, Kirthi C. Reddy, Deevya Raman, Ya-Ting Chang, Damian C. Ekiert, Michalis Barkoulas, Emily R. Troemel

(2022) PLoS Genetics, Published: October 3 doi.org/10.1371/journal.pgen.1010314

https://journals.plos.org/plosgenetics/article?id=10.1371/journal.pgen.1010314

2023

Neuroscience - Molecular Biology

Spatacsin regulates directionality of lysosome trafficking by promoting the degradation of its partner AP5Z1

Alexandre Pierga, Raphaël Matusiak, Margaux Cauhapé, Julien Branchu, Lydia Danglot, Maxime Boutry, Frédéric Darios

(2023) PLoS Biol 21(10): e3002337 21(10): e3002337

https://journals.plos.org/plosbiology/article?id=10.1371/journal.pbio.3002337

2023

Cell Biology - Development - Molecular Biology

PLK1 promotes the mitotic surveillance pathway by controlling cytosolic 53BP1 availability

Matteo Burigotto, Vincenza Vigorito, Colin Gliech, Alessia Mattivi, Sabrina Ghetti, Alessandra Bisio, Graziano Lolli, Andrew J Holland, Luca L Fava

(2023) EMBO Reports e57234

https://www.embopress.org/doi/full/10.15252/embr.202357234

2023

Cell Biology - Development - Molecular Biology

MiniBAR/GARRE1 is a dual Rac and Rab effector required for ciliogenesis

M.Serres, R. Shaughnessy, S. Escot, H. Hammich, F. Cuvelier, A. Salles, M. Rocancourt, Q. Verdon, A-L. Gaffuri, Y. Sourigues, G. Malherbe , L. Velikovsky, F. Chardon, N. Sassoon, J-Y. Tinevez, I. Callebaut, E. Formstecher , A. Houdusse, N. David, O. Pylypenko, A. Echard

(2023) Developmental Cell, October 23rd,

https://www.sciencedirect.com/science/article/abs/pii/S1534580723005129?via%3Dihub

2023

Cell Biology - Microbiology - Molecular Biology

The LARP1 homolog Slr1p controls the stability and expression of proto-5'TOP mRNAs in fission yeast

Farnaz Mansouri-Noori, Andreas Pircher, Danielle Bilodeau, Lidia Siniavskaia, Jörg Grigull, Olivia S. Rissland, Mark A. Bayfield

(2023) Cell Reports Volume 42, Issue 10, 31 October, 113226

https://www.sciencedirect.com/science/article/pii/S221112472301238X?via%3Dihub

2022

Plant Biology - Molecular Biology

The control of carpel determinacy pathway leads to sex determination in cucurbits

S. Zhang, F.-Q. Tan, C.-H. Chung, F. Slavkovic, R. Sureshbhai, Devanil, C. Troadec, F. Marcel, H. Morin, C. Camps, M. V. Gomez Roldan, M. Benhamed, C. Dogimont, A. Boulalem, and A. Bendahmane

(2022) Science, 378 (6619), • DOI: 10.1126/science.add4250

https://www.science.org/doi/10.1126/science.add4250

2023

Microbiology - Molecular Biology

Identification of IMC43, a novel IMC protein that collaborates with IMC32 to form an essential daughter bud assembly complex in Toxoplasma gondii

Rebecca R. Pasquarelli,Peter S. Back,Jihui Sha,James A. Wohlschlegel,Peter J. Bradley

(2023) PLOS PATHOGEN Published: October 2, 2023 https://doi.org/10.1371

https://journals.plos.org/plospathogens/article?id=10.1371/journal.ppat.1011707

2023

Plant Biology - Molecular Biology

NET4 and RabG3 link actin to the tonoplast and facilitate cytoskeletal remodelling during stomatal immunity

Timothy J. Hawkins, Michaela Kopischke, Patrick J. Duckney, Katarzyna Rybak, David A. Mentlak, Johan T. M. Kroon, Mai Thu Bui, A. Christine Richardson, Mary Casey, Agnieszka Alexander, Geert De Jaeger, Monika Kalde, Ian Moore, Yasin Dagdas, Patrick J. Hussey & Silke Robatzek

(2023) Nature Communications volume 14, Article number: 5848

https://www.nature.com/articles/s41467-023-41337-z

2023

Cell Biology - Development - Molecular Biology

Identification of CryAB as a target of NUAK kinase activity in Drosophila muscle tissue

Ziwei Zhao, David Brooks, Yungui Guo, Erika R Geisbrecht

(2023) Genetics, iyad167, 15 September

https://academic.oup.com/genetics/advance-article-abstract/doi/10.1093/genetics/iyad167/7275005?redirectedFrom=fulltext

2023

Cell Biology

Scavenger receptor endocytosis controls apical membrane morphogenesis in the Drosophila airways

Ana Sofia Pinheiro, Vasilios Tsarouhas, Kirsten André Senti, Badrul Arefin ,Christos Samakovlis

(2023) ELife Sep 14, https://doi.org/10.7554/eLife.84974

https://elifesciences.org/articles/84974#references

2020

Plant Biology - Molecular Biology

Glutaredoxin AtGRXS8 represses transcriptional and developmental responses to nitrate in Arabidopsis thaliana roots

Ahmad Ehrary, Miguel Rosas, Sophia Carpinelli, Oscar Davalos, Craig Cowling, Francisco Fernandez, Matthew Escobar

(2020) Plant Direct Jun 11;4(6):e00227.

https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7287413/

2003

Cell Biology

An unconventional TOG domain is required for CLASP localization

Nelly Gareil, Alison Gervais, Nicolas Macaisne, Guillaume Chevreux, Julie C Canman, Jessica Andreani, Julien Dumont

(2023) Curr Biol

https://www.cell.com/current-biology/fulltext/S0960-9822(23)00916-8

2023

Cell Biology - Development

The formin DAAM1 regulates the deubiquitinase activity of USP10 and integrin homeostasis

Andrew T. Phillips, Edward F. Boumil, Arunkumar Venkatesan, Christine Tilstra-Smith, Nileyma Castro, Barry E. Knox, Jessica L. Henty-Ridilla, Audrey M. Bernstein

(2023) European Journal of Cell Biology 5 August, 151347

https://www.sciencedirect.com/science/article/pii/S0171933523000626?via%3Dihub

2023

Cell Biology - Neuroscience

Alternative splicing regulates adaptor protein binding, trafficking, and activity of the Vps10p domain receptor SorCS2 in neuronal development

Sune Skeldal, Lasse Frank Voss, Jonas Lende, Sarah Broholt Pedersen, Simon Mølgaard, Mathias Kaas Ollendorff, Perline Demange, Andreas Høiberg Bentsen, Marie Fuglsang, Marie Rubin Sander, Henriette Buttenschøn, Camilla Gustafsen, Peder Madsen, Simon Glerup

(2023) Journal of Biological Chemistry 105102

https://www.jbc.org/article/S0021-9258(23)02130-0/fulltext#%20

2023

Nanobodies - Molecular Biology

Development of a V5-tag-directed nanobody and its implementation as an intracellular biosensor of GPCR signalling

Manel Zeghal, Kevin Matte, Angelica Venes, Shivani Patel, Geneviève Laroche, Sabina Sarvan, Monika Joshi, Jean-Christophe Rain, Jean-François Coutur, Patrick M. Giguère

(2023) Journal of Biological Chemistry 105107, PII: S0021-9258(23)02135-X

https://www.jbc.org/article/S0021-9258(23)02135-X/fulltext

Immunology - Cell Biology

Rai14 is a novel interactor of Invariant chain that regulates macropinocytosis

Natacha Lobos Patorniti, Khalisah Liyana Zulkefli, Martin E McAdam, Pablo Vargas, Oddmund Bakke, Cinzia Progida

(2023) Front Immunol

https://www.frontiersin.org/journals/immunology/articles/10.3389/fimmu.2023.1182180/full

2023

Cell Biology - Development - Molecular Biology

The Cytoplasmic Fraction of the Histone Lysine Methyltransferase Setdb1 is Essential for Embryonic Stem Cells

Roberta Rapone, Laurence Del Maestro, Costas Bouyioukos, Sonia Albini, Paola Cruz-Tapias, Véronique Joliot, Bertrand Cosson, Slimane Ait-Si-Ali

(2023) iScience Available online 14 July, 107386

https://www.sciencedirect.com/science/article/pii/S2589004223014633?via%3Dihub

2023

Immunology - Microbiology

Effector-mediated subversion of proteasome activator (PA)28αβ enhances host defense against Legionella pneumophila under inflammatory and oxidative stress conditions

Tshegofatso Ngwaga,Deepika Chauhan ,Abigail G. Salberg ,Stephanie R. Shames

(2023) PLOS Pathogens, Published: June 22,

https://journals.plos.org/plospathogens/article?id=10.1371/journal.ppat.1011473

2021

Cell Biology - Molecular Biology

A role for Cep70 in centriole amplification in multiciliated cells

Sun K. Kim, Eva Brotslaw, Virginie Thome, Jen Mitchell, Rosa Ventrella, Caitlin Collins, Brian Mitchell

(2021) Developmental Biology Volume 471, March, Pages 10-17

https://www.sciencedirect.com/science/article/pii/S0012160620303092

2022

Plant Biology - Molecular Biology

The root-knot nematode effector MiMSP32 targets host 12-oxophytodienoate reductase 2 to regulate plant susceptibility

Ava Verhoeven, Anna Finkers-Tomczak, Pjotr Prins, Debbie R. Valkenburg-van Raaij, Casper C. van Schaik, Hein Overmars, Joris J. M. van Steenbrugge, Wannes Tacken, Koen Varossieau, Erik J. Slootweg, Iris F. Kappers, Michaël Quentin, Aska Goverse, Mark G. Sterken, Geert Smant

(2022) New Phytologist, 2237:2360–2374doi: 10.1111/nph.18653

https://nph.onlinelibrary.wiley.com/doi/full/10.1111/nph.18653

2022

Cell Biology - Development

Novel putative interactors of FZO-1/mitofusin 2 identified using large-scale yeast two-hybrid screening in C. elegans

Samiksha Dhananjay, Gursimran Chandhok, and Brent Neumann

(2022) MicroPubl Biol.; 10.17912/micropub.biology.000674.

https://www.ncbi.nlm.nih.gov/pmc/articles/PMC9756088/

2023

Development - Immunology - Microbiology

Toxoplasma ERK7 protects the apical complex from premature degradation

William J. O'Shaughnessy, Xiaoyu Hu, Sarah Ana Henriquez, Michael L. Reese

(2023) JBC Journal of Cell Biology, Volume 222, Issue 6 5 June

https://rupress.org/jcb/article-abstract/222/6/e202209098/214008/Toxoplasma-ERK7-protects-the-apical-complex-from?redirectedFrom=fulltext

2023

Cell Biology - Microbiology

A genetic switch controls Pseudomonas aeruginosa surface colonization

Christina Manner, Raphael Dias Teixeira, Dibya Saha, Andreas Kaczmarczyk, Raphaela Zemp, Fabian Wyss, Tina Jaeger, Benoit-Joseph Laventie, Sebastien Boyer, Jacob G. Malone, Katrine Qvortrup, Jens Bo Andersen, Michael Givskov, Tim Tolker-Nielsen, Sebastian Hiller, Knut Drescher & Urs Jenal

(2023) Nature Microbiology https://doi.org/10.1038/s41564-023-01403-0

https://www.nature.com/articles/s41564-023-01403-0

2023

Plant Biology - Molecular Biology

A Rapid Alkalinization Factor-like Peptide EaF82 Impairs Tapetum Degeneration during Pollen Development through Induced ATP Deficiency

Chiu-Yueh Hung, Farooqahmed S. Kittur, Keely N. Wharton, Makendra L. Umstead, D'Shawna B. Burwell, Martinique Thomas, Qi Qi, Jianhui Zhang, Carla E. Oldham, Kent O. Burkey, Jianjun Chen and Jiahua Xie

(2023) Cells, 12(11), 1542; https://doi.org/10.3390/cells12111542

https://www.mdpi.com/2073-4409/12/11/1542

2023

Cancer Research - Molecular Biology

WWOX binds MERIT40 and modulates its function in homologous recombination, implications in breast cancer

Karim Taouis, Sophie Vacher, Josée Guirouilh-Barbat, Jacques Camonis, Etienne Formstecher, Tatiana Popova, Anne-Sophie Hamy, Ambre Petitalot, Rosette Lidereau, Sandrine M. Caputo, Sophie Zinn-Justin, Ivan Bièche, Keltouma Driouch & François Lallemand

(2023) Cancer Gene, Therapy published: 29 May

https://www.nature.com/articles/s41417-023-00626-x

2023

Metabolism - Molecular Biology

A previously uncharacterized Factor Associated with Metabolism and Energy (FAME/C14orf105/CCDC198/1700011H14Rik) is related to evolutionary adaptation, energy balance, and kidney physiology

Julian Petersen et al.

(2023) Nature Communications, Published: 29 May

https://www.nature.com/articles/s41467-023-38663-7

2023

Cell Biology - Molecular Biology

TP53BP1, a dual-coding gene, uses promoter switching and translational reinitiation to express a smORF protein

Marta A. Inchingolo, Aurélie Diman, Maxime Adamczewski, Tom Humphreys, Pascale Jaquier-Gubler, Joseph A. Curran

(2023) iScience Available online 27 April, 106757

https://www.cell.com/iscience/pdf/S2589-0042(23)00834-9.pdf?_returnURL=https%3A%2F%2Flinkinghub.elsevier.com%2Fretrieve%2Fpii%2FS2589004223008349%3Fshowall%3Dtrue

2021

Cell Biology - Molecular Biology

Arpin Regulates Migration Persistence by Interacting with Both Tankyrases and the Arp2/3 Complex

Gleb Simanov 1, Irene Dang 1, Artem I Fokin 1, Ksenia Oguievetskaia 1, Valérie Campanacci 2, Jacqueline Cherfils 2, Alexis M Gautreau

(2021) Int J Mol Sci . 2021 Apr 16;22(8):4115

https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8073056/

2023

Development - Molecular Biology

Identification of HSPA8 as an interacting partner of MAB21L2 and an important factor in eye development

Sarah E Seese, Sanaa Muheisen, Natalie Gath, Jeffrey M Gross, Elena V Semina

(2023) Dev Dyn . 2023 Apr;252(4):510-526.

https://anatomypubs.onlinelibrary.wiley.com/doi/10.1002/dvdy.560

2023

Development - Plant Biology - Molecular Biology

OBERON3 and SUPPRESSOR OF MAX2 1-LIKE proteins form a regulatory module driving phloem development

Eva-Sophie Wallner, Nina Tonn, Dongbo Shi, Laura Luzzietti, Friederike Wanke, Pascal Hunziker, Yingqiang Xu, Ilona Jung, Vadir Lopéz-Salmerón, Michael Gebert, Christian Wenzl, Jan U. Lohmann, Klaus Harter & Thomas Greb

(2023) Nature Communications volume 14, Article number: 2128

https://www.nature.com/articles/s41467-023-37790-5

2023

Cell Biology - Metabolism - Molecular Biology

VGLL4 and MENIN function as TEAD1 corepressors to block pancreatic b cell proliferation

Feng Li, Ruya Liu, Vinny Negi, ..., Rajaganapathi Jagannathan, Mousumi Moulik, Vijay K. Yechoor

(2023) Cell Reports 42, 111904 January 31,

https://www.cell.com/cell-reports/pdf/S2211-1247(22)01803-4.pdf

2023

Cell Biology - Development

Distinct dynein complexes defined by DYNLRB1 and DYNLRB2 regulate mitotic and male meiotic spindle bipolarity

Shuwen He , John P. Gillies , Juliana L. Zang , Carmen M. Córdoba-Beldad , Io Yamamoto , Yasuhiro Fujiwara , Julie Grantham , Morgan E. DeSantis & Hiroki Shibuya

(2023) Nature Communications volume 14, Article number: 1715

https://www.nature.com/articles/s41467-023-37370-7

2023

Neuroscience - Molecular Biology

Secretion of VGF relies on the interplay between LRRK2 and post-Golgi v-SNAREs

Francesca Filippini, Se´ bastien Nola, Ahmed Zahraoui, ..., Marie-Christine Chartier-Harlin, Chiara Guerrera, Thierry Galli

(2023) Cell Reports VOLUME 42, ISSUE 3, 112221, MARCH 28

https://www.cell.com/cell-reports/fulltext/S2211-1247(23)00232-2?_returnURL=https%3A%2F%2Flinkinghub.elsevier.com%2Fretrieve%2Fpii%2FS2211124723002322%3Fshowall%3Dtrue

2023

Metabolism - Molecular Biology

NLRC5 affects diet-induced adiposity in female mice and co-regulates peroxisome proliferator-activated receptor PPARγ target genes

Bauer, S., Aeissen, V., Bubeck, A.M., Kienes, I., Ellwanger, K., Scheurenbrand, M., Rexhepi, F., Ramanathan, S., Rosenstiel, P., Fricke, W.F., Kufer, T.A

(2023) ISCIENCE

https://www.cell.com/iscience/pdf/S2589-0042(23)00390-5.pdf?_returnURL=https%3A%2F%2Flinkinghub.elsevier.com%2Fretrieve%2Fpii%2FS2589004223003905%3Fshowall%3Dtrue

2023

Plant Biology - Molecular Biology

FKF1 Interacts with CHUP1 and Regulates Chloroplast Movement in Arabidopsis

Ning Yuan, Lavanya Mendu, Kaushik Ghose, Carlie Shea Witte, Julia Frugoli and Venugopal Mendu

(2023) Plants, 12(3), 542; https://doi.org/10.3390/plants12030542

https://www.mdpi.com/2223-7747/12/3/542

2023

Cell Biology - Molecular Biology

The Nuclear Transporter Importin 13 Can Regulate Stress-Induced Cell Death through the Clusterin/KU70 Axis

Katarzyna A. Gajewska, David A. Jansand Kylie M. Wagstaff

(2023) Cells, 12(2), 279;

https://www.mdpi.com/2073-4409/12/2/279

2023

Molecular Biology

The human CNOT1-CNOT10-CNOT11 complex forms a structural platform for protein-protein interactions

Fabienne Mauxion, Jérôme Basquin, Sevim Ozgur, Marion Rame, Jana Albrecht, Ingmar Schäfer, Bertrand Séraphin, Elena Conti

(2023) Cell Reports, December 30

https://doi.org/10.1016/j.celrep.2022.111902

2022

Cell Biology - Microbiology

A bacterial virulence factor interacts with the splicing factor RBM5 and stimulates formation of nuclear RBM5 granules

Renaud Pourpre, Goran Lakisic, Emma Desgranges, Pascale Cossart, Alessandro Pagliuso & Hélène Bierne

(2022) Nature, Scientific Reports volume 12, Article number: 21961

https://www.nature.com/articles/s41598-022-26037-w

2022

Plant Biology

Phytocyanin-encoding genes confer enhanced ozone tolerance in Arabidopsis thaliana

Shoko Saji, Hikaru Saji, Kimiyo Sage-Ono, Michiyuki Ono, Nobuyoshi Nakajima & Mitsuko Aono

(2022) Nature, Scientific Reports volume 12, Article number: 21204

https://www.nature.com/articles/s41598-022-25706-0#Sec1

2022

Nanobodies

DNA G-Quadruplex Recognition In Vitro and in Live Cells by a Structure-Specific Nanobody

Silvia Galli, Larry Melidis, Sean M. Flynn Sean M. Flynn Cancer Research UK Cambridge Institute, Li Ka Shing Centre, Robinson Way, Cambridge CB2 0RE, U.K. More by Sean M. Flynn Orcidhttps://orcid.org/0000-0001-7326-2659 , Dhaval Varshney, Angela Simeone, Jochen Spiegel, Sarah K. Madden, David Tannahill, and Shankar Balasubramanian

(2022) J. Am. Chem. Soc. 2022, 144, 50, 23096–23103

https://pubs.acs.org/doi/full/10.1021/jacs.2c10656

2022

Cell Biology - Microbiology

IMC10 and LMF1 mediate mitochondrial morphology through mitochondrion–pellicle contact sites in Toxoplasma gondii

Rodolpho Ornitz Oliveira Souza ORCID logo , Kylie N. Jacobs, Peter S. Back, Peter J. Bradley, Gustavo Arrizabalaga

(2022) Journal of Cell Science, Volume 135, Issue 22 November

https://journals.biologists.com/jcs/article/135/22/jcs260083/282114/IMC10-and-LMF1-mediate-mitochondrial-morphology

2022

Microbiology - Plant Biology

The Arabidopsis E3 ubiquitin ligase PUB4 regulates BIK1 and is targeted by a bacterial type-III effector

Gang Yu, Maria Derkacheva, Jose S Rufian, Carla Brillada, Kathrin Kowarschik, Shushu Jiang, Paul Derbyshire, Miaomiao Ma, Thomas A DeFalco, Rafael J L Morcillo, Lena Stransfeld, Yali Wei, Jian-Min Zhou, Frank L H Menke, Marco Trujillo Cyril Zipfel, Alberto P Macho

(2022) The EMBO Journal e107257

https://www.embopress.org/doi/abs/10.15252/embj.2020107257

2022

Development - Plant Biology

The DC1 domain protein BINUCLEATE POLLEN is required for pollen development in Arabidopsis thaliana

Leonardo A Aria, Sebastián D'Ippolito, Jésica Frik, Natalia L Amigo, Fernanda Marchetti, Claudia A Casalongué, Gabriela C Pagnussat, Diego F Fiol

(2022) Plant Cell Physiol .Aug 24;pcac122.

https://pubmed.ncbi.nlm.nih.gov/36001044/

2022

Plant Biology

Topoisomerase VI participates in an insulator-like function that prevents H3K9me2 spreading

Louis-Valentin Méteignier, Cécile Lecampion, Florent Velay, [..] and Christophe Laloi

(2022) PNAS Plant Biology June 27, 2022 119 (27) e2001290119

https://www.pnas.org/doi/abs/10.1073/pnas.2001290119

2022

Cell Biology

Zn-regulated GTPase metalloprotein activator 1 modulates vertebrate zinc homeostasis

Andy Weiss, Caitlin C.Murdoch, Katherine A.Edmonds, Matthew R.Jordan, Andrew J.Monteith, Yasiru R.Perera, Aslin M.Rodríguez Nassif, Amber M.Petoletti, William N.Beavers, Matthew J.Munneke, Sydney L.Drury, Evan S.Krystofiak, KishoreThalluri, HongweiWu, Angela .S.Kruse, Richard D.DiMarchi, Richard M.Caprioli, Jeffrey M.Spraggins [...] Eric P.Skaar

(2022) Cell Volume 185, Issue 12, 9 June 2022, Pages 2148-2163.e27

https://www.sciencedirect.com/science/article/abs/pii/S0092867422004585

2022

Cell Biology - Metabolism

Mitochondrial protein import stress regulates the LC3 lipidation step of mitophagy through NLRX1 and RRBP1

Samuel A Killackey, Yuntian Bi, Fraser Soares, Ikram Hammi, Nathaniel J Winsor, Ali A Abdul-Sater, Dana J Philpott, Damien Arnoult, Stephen E Girardin

(2022) Mol Cell . Aug 4;82(15):2815-2831.e5.

https://pubmed.ncbi.nlm.nih.gov/35752171/

2022

Cell Biology

Interactions between C8orf37 and FAM161A, Two Ciliary Proteins Essential for Photoreceptor Survival

Yu Liu, Jinjun Chen, Rachel Sager, Erika Sasaki, Huaiyu Hu

(2022) Int J Mol Sci . Oct 10;23(19):12033. doi: 10.3390

https://pubmed.ncbi.nlm.nih.gov/36233334/

2022

Cancer Research - Cell Biology

A regulatory network comprising let-7 miRNA and SMUG1 is associated with good prognosis in ER+ breast tumours

Lisa Lirussi, Dilara Ayyildiz, Yan Liu, Nicola P Montaldo, Sergio Carracedo, Miriam R Aure, Laure Jobert, Xavier Tekpli, Joel Touma, Torill Sauer, Emiliano Dalla, Vessela N Kristensen, Jürgen Geisler, Silvano Piazza, Gianluca Tell, Hilde Nilsen

(2022) Nucleic Acids Research, Volume 50, Issue 18, 14 October, Pages 10449–10468,

https://academic.oup.com/nar/article/50/18/10449/6717838

2021

Cell Biology - Development

The exocyst complex regulates C. elegans germline stem cell proliferation by controlling membrane Notch levels

Kumari Pushpa, Sunayana Dagar, Harsh Kumar, Diksha Pathak, Sivaram V S Mylavarapu

(2021) Development .Aug 1;148(15):dev196345.

https://pubmed.ncbi.nlm.nih.gov/34338279/

2022

Cell Biology - Microbiology

TFK1, a basal body transition fibre protein that is essential for cytokinesis in Trypanosoma brucei

Miharisoa Rijatiana Ramanantsalama, Nicolas Landrein, Elina Casas, Bénédicte Salin, Corinne Blancard, Mélanie Bonhivers, Derrick R Robinson, Denis Dacheux

(2022) J Cell Sci . Jun 1;135(11):jcs259893.

https://pubmed.ncbi.nlm.nih.gov/35588197/

2022

Cell Biology - Virology

TASOR epigenetic repressor cooperates with a CNOT1 RNA degradation pathway to repress HIV

Roy Matkovic, Marina Morel, Sophie Lanciano, Pauline Larrous, Benjamin Martin, Fabienne Bejjani, Virginie Vauthier, Maike M. K. Hansen, Stéphane Emiliani, Gael Cristofari, Sarah Gallois-Montbrun & Florence Margottin-Goguet

(2022) Nature Communications volume 13, Article number: 66

https://www.nature.com/articles/s41467-021-27650-5#Sec10

2022

Cell Biology - Development

Ddx20, an Olig2 binding factor, governs the survival of neural and oligodendrocyte progenitor cells via proper Mdm2 splicing and p53 suppression

Norihisa Bizen, Asim K. Bepari, Li Zhou, Manabu Abe, Kenji Sakimura, Katsuhiko Ono & Hirohide Takebayashi

(2022) Cell Death & Differentiation volume 29, pages1028–1041

https://www.nature.com/articles/s41418-021-00915-8

2022

Cell Biology - Microbiology

A family of conserved bacterial virulence factors dampens interferon responses by blocking calcium signaling

Noémie Alphonse, Joseph J Wanford, Andrew A Voak, Jack Gay, Shayla Venkhaya, Owen Burroughs, Sanjana Mathew, Truelian Lee, Sasha L Evans, Weiting Zhao, Kyle Frowde, Abrar Alrehaili, Ruth E Dickenson, Mads Munk, Svetlana Panina, Ishraque F Mahmood, Miriam Llorian, Megan L Stanifer, Steeve Boulant, Martin W Berchtold, Julien R C Bergeron, Andreas Wack, Cammie F Lesser, Charlotte Odendall

(2022) Cell Jun 23;185(13):2354-2369.e17.

https://pubmed.ncbi.nlm.nih.gov/35568036/

2022

Development - Plant Biology

A mitochondrial ADXR-ADX-P450 electron transport chain is essential for maternal gametophytic control of embryogenesis in Arabidopsis

Andrés Martin Bellido, Ayelén Mariana Distéfano, Nicolás Setzes, María Milagros Cascallares, Jana Oklestkova, Ondrej Novak, Javier Alberto Ramirez Eduardo J Zabaleta, Diego F Fiol, Gabriela C Pagnussat

(2022) Proc Natl Acad Sci U S A . 2022 Jan 25;119(4):e2000482119.

https://pubmed.ncbi.nlm.nih.gov/35046016/

2022

Cell Biology - Plant Biology

Convergent selection of a WD40 protein that enhances grain yield in maize and rice

Wenkang Chen, Lu Chen, Xuan Chang , Ning Yang, Ianghua Gup, Min Wand, Shenghui JI, Xiangyu Zhao, Pengfei Yin, Lichun Cai, Jing Xu, Bili Zhang, Yingjian, Yingni Xiao, Gen Xu, Yuebin Wang, Shuhui Wang, Sheng Wu, Fang Yang, David Jackson, Jinkui Cheng, Saihua Chen, H Chuanqing Sun, Feng Qin, Feng Tian, Alisdair R. Fernie Jiansheng Li , Jianbing Yan and Xiaohong Yang

(2022) SCIENCE VOL. 375, NO. 6587

https://www.science.org/doi/pdf/10.1126/science.abg7985

2022

Cell Biology - Metabolism

Function of ceramide transfer protein for biogenesis and sphingolipid composition of extracellular vesicles

Simone M Crivelli , Caterina Giovagnoni, Zhihui Zhu, Priyanka Tripathi , Ahmed Elsherbini, Zainuddin Quadri , Jian Pu , Liping Zhang, Branislav Ferko , Dusan Berkes , Stefka D Spassieva , Pilar Martinez-Martinez , Erhard Bieberich

(2022) J Extracell Vesicles .Jun;11(6):e12233

https://pubmed.ncbi.nlm.nih.gov/35642450/

2022

Plant Biology

The carboxy-terminal tail of GLR3.3 is essential forwound-response electrical signaling

Qian Wu, Stephanie Stolz, Archana Kumari and Edward E. Farmer

(2022) New Phytologist(2022)doi: 10.1111/nph.18475

https://nph.onlinelibrary.wiley.com/doi/epdf/10.1111/nph.18475

2022

Cancer Research - Cell Biology

Blocking the Farnesyl Pocket of PDEδ Reduces Rheb-Dependent mTORC1 Activation and Survival of Tsc2-Null Cells

Marisol Estrella Armijo, Emilia Escalona, Daniela Peña, Alejandro Farias, Violeta Morin, Matthias Baumann, Bert Matthias Klebl, Roxana Pincheira, Ariel Fernando Castro

(2022) Front Pharmacol . Jun 23;13:912688.

https://pubmed.ncbi.nlm.nih.gov/35814251/

2022

Cell Biology - Development

Local synthesis of the phosphatidylinositol-3,4- bisphosphate lipid drives focal adhesion turnover

York Posor, Charis Kampyli, Benoit Bilanges, ..., Buzz Baum, Volker Haucke, Bart Vanhaesebroeck

(2022) Developmental Cell 57, 1694–1711 July 25

https://www.cell.com/action/showPdf?pii=S1534-5807%2822%2900451-8

2022

Cell Biology - Microbiology

Interaction between the flagellar pocket collar and the hook complex via a novel microtubule-binding protein in Trypanosoma brucei

Anna Albisetti,Célia Florimond,Nicolas Landrein,Keni Vidilaseris,Marie Eggenspieler,Johannes Lesigang,Gang Dong,Derrick Roy Robinson,Mélanie Bonhivers

(2022) Plos Pathogens Nov 11

https://journals.plos.org/plospathogens/article?id=10.1371/journal.ppat.1006710

2022

Cell Biology - Development

An integrated model for Gpr124 function in Wnt7a/b signaling among vertebrates

Michelle America, Naguissa Bostaille, Marie Eubele, Maud Martin, Didier Y.R.Stainier, Benoit Vanhollebeke

(2022) Cell Reports Volume 39, Issue 9, 31 May, 110902

https://www.sciencedirect.com/science/article/pii/S2211124722006775

2022

Plant Biology

The Arabidopsis SAC9 enzyme is enriched in a cortical population of early endosomes and restricts PI(4,5)P2 at the plasma membrane

Alexis Lebecq, Mehdi Doumane, Aurelie Fangain, Vincent Bayle, Jia Xuan Leong, Frédérique Rozier, Maria del Marques-Bueno, Laia Armengot, Romain Boisseau, Mathilde Laetitia Simon, Mirita Franz-Wachtel, Boris Macek, Suayib Üstün, Yvon Jaillais, Marie-Cécile Caillaud

(2022) eLife Aug 31, 2022 https://doi.org/10.7554/eLife.73837

https://elifesciences.org/articles/73837

2022

Nanobodies

mNG-tagged fusion proteins and nanobodies to visualize tropomyosins in yeast and mammalian cells

Tomoyuki Hatano, Tzer Chyn Lim, Ingrid Billault-Chaumartin, Anubhav Dhar, Ying Gu, Teresa Massam-Wu, William Scott, Sushmitha Adishesha, Bernardo Chapa-y-Lazo, Luke Springall, Lavanya Sivashanmugam, Masanori Mishima, Sophie G. Martin, Snezhana Oliferenko, Saravanan Palani, Mohan K. Balasubramanian

(2022) Journal of Cell Science, Toole and Resources,| 23 September 2022

https://journals.biologists.com/jcs/article/135/18/jcs260288/276794

2022

Cell Biology - Development

The Drosophila ZAD zinc finger protein Kipferl guides Rhino to piRNA clusters

Lisa Baumgartner, Dominik Handler, Sebastian Wolfgang Platzer, Changwei Yu, Peter Duchek, Julius Brennecke

(2022) eLife, Chromosomes and Gene ExpressionGenetics and Genomics, Oct 4, 2022 https://doi.org/10.7554/eLife.80067

https://elifesciences.org/articles/80067

2022

Neuroscience - Nanobodies

NMDA receptor-targeted enrichment of CaMKIIα improves fear memory

Anthony Chifor, Jeongyoon Choi, Joongkyu Park

(2022) iScience .Aug 2;25(8):104864. doi: 10.1016/j.isci.2022.104864

https://linkinghub.elsevier.com/retrieve/pii/S2589-0042(22)01136-1

2022

Molecular Biology - Cell Biology - Neuroscience

Chr21 protein–protein interactions: enrichment in proteins involved in intellectual disability, autism, and late-onset Alzheimer's disease

Julia Viard, Yann Loe-Mie, Rachel Daudin, Malik Khelfaoui, Christine Plancon, Anne Boland, Francisco Tejedor, Richard L Huganir, Eunjoon Kim, Makoto Kinoshita, uofa Liu, Volker Haucke, Thomas Moncion, Eugene Yu, Valérie Hindie, Henri Bléhaut, Clotilde Mircher, Yann Herault, Jean-François Deleuze, Jean-Christophe Rain, Michel SimonneauAude-Marie Lepagnol-Bestel

(2022) Life Science Alliance August 2022. DOI: 10.26508/lsa.202101205

https://www.life-science-alliance.org/content/5/12/e202101205

2022

Cell Biology - Metabolism

MRCK-Alpha and Its Effector Myosin II Regulatory Light Chain Bind ABCB4 and Regulate Its Membrane Expression

Alix Bruneau, Jean-Louis Delaunay, Anne-Marie Durand-Schneider, Virginie Vauthier, Amel Ben Saad, Lynda Aoudjehane, Haquima El Mourabit, Romain Morichon, Thomas Falguières, Jérémie Gautheron, Chantal Housset, Tounsia Aït-Slimane

(2022) Cells, Feb 10;11(4):617

https://pubmed.ncbi.nlm.nih.gov/35203270/

2022

Neuroscience

The Orphan GPCR Receptor, GPR88, Interacts with Nuclear Protein Partners in the Cerebral Cortex

Florian Rebeillard, Stéphanie De Gois, Nicolas Pietrancosta, Thi Hue Mai, René Lai-Kuen, Brigitte L Kieffer, Bruno Giros, Renaud Massart, Michèle Darmon, Jorge Diaz

(2022) Cereb Cortex. Jan 22;32(3):479-489.

https://pubmed.ncbi.nlm.nih.gov/34247243/

2021

Cell Biology - Immunology

The Immunomodulatory Enzyme IDO2 Mediates Autoimmune Arthritis through a Nonenzymatic Mechanism

Lauren M. F. Merlo, Weidan Peng, James B. DuHadaway, James D. Montgomery, George C. Prendergast, Alexander J. Muller and Laura Mandik-Nayak

(2021) J Immunol December 29, ji2100705;

https://www.jimmunol.org/content/early/2021/12/29/jimmunol.2100705

2022

Cell Biology

A heterotypic assembly mechanism regulates CHIP E3 ligase activity

Aniruddha Das, Pankaj Thapa, Ulises Santiago, Nilesh Shanmugam, Katarzyna Banasiak, Katarzyna Dąbrowska, Hendrik Nolte, Natalia A Szulc, Rose M Gathungu, Dominik Cysewski, Marcus Krüger, Michał Dadlez, Marcin Nowotny, Carlos J Camacho, Thorsten Hoppe, Wojciech Pokrzywa

(2022) The EMBO Journal e109566

https://www.embopress.org/doi/full/10.15252/embj.2021109566

2022

Cell Biology - Metabolism

MNK2 deficiency potentiates β-cell regeneration via translational regulation

Christos Karampelias, Kathleen Watt, Charlotte L. Mattsson, Ángel Fernández Ruiz, Habib Rezanejad, Jiarui Mi, Xiaojing Liu, Lianhe Chu, Jason W. Locasale, Gregory S. Korbutt, Meritxell Rovira, Ola Larsson & Olov Andersson

(2022) Nature Chemical Biology, June 70

https://www.nature.com/articles/s41589-022-01047-x

2022

Nanobodies

Inhibition of Tau seeding by targeting Tau nucleation core within neurons with a single domain antibody fragment

Clément Danis, Elian Dupré, Orgeta Zejneli, Raphaëlle Caillierez, Alexis Arrial, Séverine Bégard, Justine Mortelecque, Sabiha Eddarkaoui, Anne Loyens, François-Xavier Cantrelle, Xavier Hanoulle, Jean-Christophe Rain Morvane Colin, Luc Buée, Isabelle Landrieu

(2022) Molecular Therapy, Volume 6, Issue 4

https://www.sciencedirect.com/science/article/pii/S1525001622000090#:~:text=Original%20Article-,Inhibition%20of%20Tau%20seeding%20by%20targeting%20Tau%20nucleation%20core%20within,a%20single%20domain%20antibody%20fragment&text=Tau%20proteins%20aggregate%20into%20filaments,disorders%20referred%20to%20as%20tauopathies.

2022

Nanobodies

Structural Insights into the Design of Synthetic Nanobody Libraries

Mario S. Valdés-Tresanco, Andrea Molina-Zapata, Alaín González Pose and Ernesto Moreno

(2022) Molecules, 27, 2198

https://www.mdpi.com/1420-3049/27/7/2198

2021

Nanobodies

Interaction standards for biophysics: anti lysozyme nanobodies

Holly L. Birchenough, Hilda D. Ruiz Nivia, Thomas A. Jowitt

(2021) European Biophysics Journal 50:333–343

https://link.springer.com/content/pdf/10.1007/s00249-021-01524-6.pdf

2022

Cell Biology - Microbiology

TbKINX1B: a novel BILBO1 partner and an essential protein in bloodstream form Trypanosoma brucei

Doranda Perdomo, Elodie Berdance, Gertrud Lallinger-Kube, Annelise Sahin, Denis Dacheux, Nicolas Landrein, Anne Cayrel, Klaus Ersfeld, Mélanie Bonhivers, Linda Kohl, Derrick R Robinson

(2022) Parasite . 2022;29:14.

https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8906236/

2022

Cell Biology - Development

DCHS1, Lix1L, and the Septin Cytoskeleton: Molecular and Developmental Etiology of Mitral Valve Prolapse

Kelsey S. Moore, Reece Moore, Diana B. Fulmer, Lilong Guo, Cortney Gensemer, Rebecca Stairley, Janiece Glover, Tyler C. Beck, Jordan E. Morningstar, Rachel Biggs, Rupak Muhkerjee, Alexander Awgulewitsch, and Russell A. Norris

(2022) J Cardiovasc Dev Dis. Feb; 9(2): 62.

https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8874669/

2022

Cell Biology

Rab33b-exocyst interaction mediates localized secretion for focal adhesion turnover and cell migration

Synne Arstad Bjørnestad, Noemi Antonella Guadagno, Ingrid Kjo, Cinzia Progida

(2022) iScience

https://www.cell.com/action/showPdf?pii=S2589-0042%2822%2900520-X

2021

Cancer Research

ENTREP/FAM189A2 encodes a new ITCH ubiquitin ligase activator that is downregulated in breast cancer

Tsunoda T, Riku M, Yamada N, Tsuchiya H, Tomita T, Suzuki M, Kizuki M, Inoko A, Ito H, Murotani K, Murakami H, Saeki Y, Kasai K

(2021) EMBO Rep,Epub ahead of print

https://pubmed.ncbi.nlm.nih.gov/34927784/

2021

Cell Biology - Plant Biology

An oomycete effector targets a plant RNA helicase involved in root development and defense

Camborde L, Kiselev A, Pel MJC, Le Ru A, Jauneau A, Pouzet C, Dumas B, Gaulin E

(2021) New Phytol,10.1111/nph.17918

https://pubmed.ncbi.nlm.nih.gov/34913494/

2021

Cell Biology

Rabaptin5 targets autophagy to damaged endosomes and Salmonella vacuoles via FIP200 and ATG16L1

Millarte V, Schlienger S, Kälin S, Spiess M.

(2021) Epub ahead of print

https://pubmed.ncbi.nlm.nih.gov/34704340/

2021

Cell Biology

Pellino-2 in nonimmune cells: novel interaction partners and intracellular localization

Cristea I, Bruland O, Aukrust I, Rødahl E, Bredrup C

(2021) FEBS Lett,595(23):2909-2921

https://pubmed.ncbi.nlm.nih.gov/34674267/

2021

Development

RASSF8-mediated transport of Echinoid via the exocyst promotes Drosophila wing elongation and epithelial ordering

Chan EHY, Zhou Y, Aerne BL, Holder MV, Weston A, Barry DJ, Collinson L, Tapon N

(2021) Development,15;148(20):dev199731

https://pubmed.ncbi.nlm.nih.gov/34532737/

2021

Cell Biology

WDR37 syndrome: identification of a distinct new cluster of disease-associated variants and functional analyses of mutant proteins

Sorokina EA, Reis LM, Thompson S, Agre K, Babovic-Vuksanovic D, Ellingson MS, Hasadsri L, van Bever Y, Semina

(2021) Hum Genet 140,1775–1789

https://pubmed.ncbi.nlm.nih.gov/34642815/

2021

Metabolism

STE20-Type Kinase TAOK3 Regulates Hepatic Lipid Partitioning. Mol Metab

Xia Y, Caputo M, Cansby E, Anand SK, Sütt S, Henricsson M, Porosk R, Marschall HU, Blüher M, Mahlapuu

(2021) Elsevier GmbH, Epub ahead of print

https://pubmed.ncbi.nlm.nih.gov/34634521/

2021

Cell Biology

Calsyntenin-3 interacts with the sodium-dependent vitamin C transporter-2 to regulate vitamin C uptake

Subramaniana BS, Teafatillera T, Vidal J,.Gunaratnec GS, Rodriguez-Ortiz CJ, Kitazawaab M, Marchant JC

(2021) International Journal of Biological Macromolecules,1178-1184

https://www.sciencedirect.com/science/article/abs/pii/S014181302102211X

2021

Microbiology - Virology - Plant Biology

Parasitic modulation of host development by ubiquitin-independent protein degradation

Huang W, MacLean AM, Sugio A, Maqbool A, Busscher M, Cho ST, Kamoun S, Kuo CH, Immink RGH, Hogenhout SA

(2021) Cell, 184(20):5201-5214.e12

https://pubmed.ncbi.nlm.nih.gov/34536345/

2021

Cell Biology

Regulation of Fibroblast Activation Protein-α Expression: Focus on Intracellular Protein Interactions

Juillerat-Jeanneret L, Tafelmeyer P, Golshayan D

(2021) J Med Chem,14;64(19):14028-14045

https://pubmed.ncbi.nlm.nih.gov/34523930/

2021

Cell Biology

Cryptosporidium rhoptry effector protein ROP1 injected during invasion targets the host cytoskeletal modulator LMO7

Guérin A, Roy NH, Kugler EM, Berry L, Burkhardt JK, Shin J-B, Striepen B

(2021) ScienceDirect Pages 1407-1420.e5

https://www.sciencedirect.com/science/article/abs/pii/S1931312821003036

2021

Cell Biology

TSHZ2 is an EGF-regulated tumor suppressor that binds to the cytokinesis regulator PRC1 and inhibits metastasis

Uribe ML, Dahlhoff M, Batra RN, Nataraj NB, Haga Y, Drago-Garcia D, Marrocco I, Sekar A, Ghosh S, Vaknin I, Lebon S, Kramarski L, Tsutsumi Y, Choi I, Rueda OM, Caldas C, Yarden Y.

(2021) Sci Signal. 22;14(688):eabe6156.

https://pubmed.ncbi.nlm.nih.gov/34158398/

2021

Cell Biology

PIE-1 SUMOylation promotes germline fates and piRNA-dependent silencing in C. elegans

Kim H, Ding YH, Lu S, Zuo MQ, Tan W, Conte D Jr, Dong MQ, Mello CC

(2021) Elife.May 18;10:e63300

https://pubmed.ncbi.nlm.nih.gov/34003111/

2021

Cancer Research

Target identification for small-molecule discovery in the FOXO3a tumor-suppressor pathway using a biodiverse peptide library, Cell Chemical Biology

Amy Emery, Bryn S. Hardwick, Alex T. Crooks, Nadia Milech, Paul M. Watt, Chandan Mithra, Vikrant Kumar, Saranya Giridharan, Gayathri Sadasivam, Subashini Mathivanan, Sneha Sudhakar, Sneha Bairy, Kavitha Bharatham, Manjunath A. Hurakadli, Thazhe K. Prasad, Neelagandan Kamariah, Markus Muellner, Miguel Coelho, Christopher J. Torrance, Grahame J. McKenzie, Ashok R. Venkitaraman

(2021) Cell Chemical Biology,2451-9456

https://www.sciencedirect.com/science/article/pii/S2451945621002543#mmc1

2021

Plant Biology

JASMONATE-ZIM DOMAIN proteins engage Polycomb chromatin modifiers to modulate Jasmonate signaling in Arabidopsis

Li Z, Luo X, Ou Y, Jiao H, Peng L, Fu X, Macho AP, Liu R, He Y

Mol Plant (2021) 3;14(5):732-747

https://pubmed.ncbi.nlm.nih.gov/33676023/

2021

Cancer Research

The oncogene AAMDC links PI3K-AKT-mTOR signaling with metabolic reprograming in estrogen receptor-positive breast cancer

Golden E, Rashwan R, Woodward EA, Sgro A, Wang E, Sorolla A, Waryah C, Tie WJ, Cuyàs E, Ratajska M, Kardaś I, Kozlowski P, Johnstone EKM, See HB, Duffy C, Parry J, Lagerborg KA, Czapiewski P, Menendez JA, Gorczyński A, Wasag B, Pfleger KDG, Curtis C, Lee BK, Kim J, Cursons J, Pavlos NJ, Biernat W, Jain M, Woo AJ, Redfern A, Blancafort P

(2021) Nat Commun, 12(1):1920

https://pubmed.ncbi.nlm.nih.gov/33772001/

2021

Immunology

Vascular endothelial ERp72 is involved in the inflammatory response in a rat model of skeletal muscle injury

Khalaf NB, Al-Mehatab D, Fathallah DM

(2021) Mol Med Rep.Mar;23(3):186

https://pubmed.ncbi.nlm.nih.gov/33398381/

2021

Immunology

Myopathy associated LDB3 mutation causes Z-disc disassembly and protein aggregation through PKCα and TSC2-mTOR downregulation

Pathak P, Blech-Hermoni Y, Subedi K, Mpamugo J, Obeng-Nyarko C, Ohman R, Molloy I, Kates M, Hale J, Stauffer S, Sharan SK, Mankodi A

(2021) Commun Biol,19;4(1):355

https://pubmed.ncbi.nlm.nih.gov/33742095/

2021

Microbiology

The Campylobacter jejuni CiaD effector co-opts the host cell protein IQGAP1 to promote cell entry

Negretti NM, Gourley CR, Talukdar PK, Clair G, Klappenbach CM, Lauritsen CJ, Adkins JN, Konkel ME

(2021) Nat Commun.Feb 26;12(1):1339

https://pubmed.ncbi.nlm.nih.gov/33637714/

2021

Cell Biology

SPEG binds with desmin and its deficiency causes defects in triad and focal adhesion proteins

Luo S, Li Q, Lin J, Murphy Q, Marty I, Zhang Y, Kazerounian S, Agrawal PB

(2021) Hum Mol Genet. Feb 25;29(24):3882-3891

https://pubmed.ncbi.nlm.nih.gov/33355670/

2021

Plant Biology

Transgenic insertion of the cyanobacterial membrane protein ictB increases grain yield in Zea mays through increased photosynthesis and carbohydrate production

Koester RP, Pignon CP, Kesler DC, Willison RS, Kang M, Shen Y, Priest HD, Begemann MB, Cook KA, Bannon GA, Oufattole M

(2021) PLoS One.Feb 4;16(2):e0246359

https://pubmed.ncbi.nlm.nih.gov/33539477/

2021

Cell Biology

Telomeric double-strand DNA-binding proteins DTN-1 and DTN-2 ensure germline immortality in Caenorhabditis elegans

Yamamoto I, Zhang K, Zhang J, Vorontsov E, Shibuya H

(2021) Elife.Jan 21;10:e64104

https://pubmed.ncbi.nlm.nih.gov/33476260/

2021

Cell Biology

The focal adhesion protein Testin modulates KCNE2 potassium channel β subunit activity

Papanikolaou M, Crump SM, Abbott GW

(2021) Channels (Austin).Dec;15(1):229-238

https://www.tandfonline.com/doi/pdf/10.1080/19336950.2021.1874119

2020

Cancer Research

The E3/E4 ubiquitin conjugation factor UBE4B interacts with and ubiquitinates the HTLV-1 Tax oncoprotein to promote NF-κB activation

Mohanty S, Han T, Choi YB, Lavorgna A, Zhang J, Harhaj EW

(2020) PLoS Pathog;16(12):e1008504

https://journals.plos.org/plospathogens/article?id=10.1371/journal.ppat.1008504#sec013

2020

Cell Biology

Centriolar distal appendages activate the centrosome-PIDDosome-p53 signalling axis via ANKRD26

Burigotto M, Mattivi A, Migliorati D, Magnani G, Valentini C, Roccuzzo M, Offterdinger M, Pizzato M, Schmidt A, Villunger A, Maffini S, Fava LL

(2020) EMBO J. Dec 22:e104844

https://pubmed.ncbi.nlm.nih.gov/33350486/

2020

Cancer Research

Phosphorylation of PLCγ1 by EphA2 Receptor Tyrosine Kinase Promotes Tumor Growth in Lung Cancer

Song W, Kim LC, Han W, Hou Y, Edwards DN, Wang S, Blackwell TS, Cheng F, Brantley-Sieders DM, Chen J

(2020) Mol Cancer Res. Nov;18(11):1735-1743

https://pubmed.ncbi.nlm.nih.gov/32753469/

2020

Plant Biology

TCMP-2 affects tomato flowering and interacts with BBX16, a homolog of the arabidopsis B-box MiP1b

Molesini B, Dusi V, Pennisi F, Di Sansebastiano GP, Zanzoni S, Manara A, Furini A, Martini F, Rotino GL, Pandolfini T

(2020) Plant Direct. Nov 7;4(11):e00283

https://pubmed.ncbi.nlm.nih.gov/33204936/

2020

Virology

Multimerization of Zika Virus-NS5 Causes Ciliopathy and Forces Premature Neurogenesis

Murielle Saade, Diego S Ferrero, José Blanco-Ameijeiras, Elena Gonzalez-Gobartt, Marco Flores-Mendez, Victor M Ruiz-Arroyo, Elena Martínez-Sáez, Santiago Ramón Y Cajal, Naiara Akizu, Nuria Verdaguer, Elisa Martí

(2020) Cell Stem Cell. Dec 3;27(6):920-936.e8.

https://pubmed.ncbi.nlm.nih.gov/33147489/

2020

Neuroscience

Novel phospho-switch function of delta-catenin in dendrite development

Baumert R, Ji H, Paulucci-Holthauzen A, Wolfe A, Sagum C, Hodgson L, Arikkath J, Chen X, Bedford MT, Waxham MN, McCrea PD

(2020) J Cell Biol. Nov 2;219(11):e201909166

https://pubmed.ncbi.nlm.nih.gov/33007084/

2021

Plant Biology

At3g53630 encodes a GUN1-interacting protein under norflurazon treatment

Huang XQ, Wang LJ, Kong MJ, Huang N, Liu XY, Liang HY, Zhang JX, Lu S

(2021) Protoplasma.Mar;258(2):371-378

https://pubmed.ncbi.nlm.nih.gov/33108535/

2020

Plant Biology

A small secreted protein from Zymoseptoria tritici interacts with a wheat E3 ubiquitin to promote disease

Karki SJ, Reilly A, Zhou B, Mascarello M, Burke J, Doohan F, Douchkov D, Schweizer P, Feechan A

(2020) J Exp Bot. Oct 23:eraa489

https://pubmed.ncbi.nlm.nih.gov/33095257/

2020

Plant Biology

Key role of the motor protein Kinesin 13B in the activity of homeodomain-leucine zipper I transcription factors

Miguel VN, Ribichich KF, Giacomelli JI, Chan RL

(2020) J Exp Bot. Oct 22;71(20):6282-6296

https://pubmed.ncbi.nlm.nih.gov/32882705/

2020

Plant Biology - Molecular Biology

A Bacterial Effector Protein Hijacks Plant Metabolism to Support Pathogen Nutrition

Liu Xian, Gang Yu, Yali Wei, Jose S. Rufian, Yansha Li, Haiyan Zhuang, Hao Xue, Rafael J.L. Morcillo, Alberto P. Macho

(2020) Cell, Host and Microbe Volume 28, Issue 4p548-557.e7October 07

https://www.cell.com/cell-host-microbe/fulltext/S1931-3128(20)30399-1?_returnURL=https%3A%2F%2Flinkinghub.elsevier.com%2Fretrieve%2Fpii%2FS1931312820303991%3Fshowall%3Dtrue

2020

Cell Biology

A comparison of three approaches for the discovery of novel tripartite attachment complex proteins in Trypanosoma brucei

Baudouin HCM, Pfeiffer L, Ochsenreiter T. A

(2020) PLoS Negl Trop Dis. Sep 16;14(9):e0008568.

https://pubmed.ncbi.nlm.nih.gov/32936798/

2020

Cell Biology

Newly identified Gon4l/Udu-interacting proteins implicate novel functions.

Tsai SM, Chu KC, Jiang YJ

(2020) Sci Rep. Aug 26;10(1):14213

https://pubmed.ncbi.nlm.nih.gov/32848183/

2020

Cancer Research

Functional Radiogenetic Profiling Implicates ERCC6L2 in Non-homologous End Joining

Francica P, Mutlu M, Blomen VA, Oliveira C, Nowicka Z, Trenner A, Gerhards NM, Bouwman P, Stickel E, Hekkelman ML, Lingg L, Klebic I, van de Ven M, de Korte-Grimmerink R, Howald D, Jonkers J, Sartori AA, Fendler W, Chapman JR, Brummelkamp T, Rottenberg S.

(2020) Cell Rep. Aug 25;32(8):108068.

https://pubmed.ncbi.nlm.nih.gov/32846126/

2020

Cell Biology

Filaggrin and filaggrin 2 processing are linked together through skin aspartic acid protease activation

Donovan, M, Salamito, M, Thomas-Collignon, A, Simonetti, L, Desbouis, S, Rain, JC, Formstecher, E, Bernard, D

(2020) PloS one, 15(5), e0232679

https://pubmed.ncbi.nlm.nih.gov/32437351/

2020

Cell Biology

PUB11-Dependent Ubiquitination of the Phospholipid Flippase ALA10 Modifies ALA10 Localization and Affects the Pool of Linolenic Phosphatidylcholine

Salvaing J, Botella C, Albrieux C, Gros V, Block MA, Jouhet J

(2020) Front Plant Sci,15;11:1070

https://pubmed.ncbi.nlm.nih.gov/32760418/

2020

Plant Biology

FRA1 Kinesin Modulates the Lateral Stability of Cortical Microtubules through Cellulose Synthase-Microtubule Uncoupling Proteins

Ganguly A, Zhu C, Chen W, Dixit R

(2020) Plant Cell. Aug;32(8):2508-2524

https://pubmed.ncbi.nlm.nih.gov/32487563/

2020

Cell Biology

The Set1 N-terminal domain and Swd2 interact with RNA polymerase II CTD to recruit COMPASS

Bae HJ, Dubarry M, Jeon J, Soares LM, Dargemont C, Kim J, Geli V, Buratowski S

(2020) Nat Commun. May 1;11(1):2181

https://pubmed.ncbi.nlm.nih.gov/32358498/

2020

Cancer Research

The BRCA2-MEILB2-BRME1 complex governs meiotic recombination and impairs the mitotic BRCA2-RAD51 function in cancer cells

Zhang J, Gurusaran M, Fujiwara Y, Zhang K, Echbarthi M, Vorontsov E, Guo R, Pendlebury DF, Alam I, Livera G, Emmanuelle M, Wang PJ, Nandakumar J, Davies OR, Shibuya H.

(2020) Nat Commun.11(1):2055

https://pubmed.ncbi.nlm.nih.gov/32345962/

2020

Cell Biology

Drosophila NUAK functions with Starvin/BAG3 in autophagic protein turnover

Brooks D, Naeem F, Stetsiv M, Goetting SC, Bawa S, Green N, Clark C, Bashirullah A, Geisbrecht ER.

(2020) PLoS Genet. 16(4):e1008700

https://pubmed.ncbi.nlm.nih.gov/32320396/

2020

Neuroscience

Ankyrin Is An Intracellular Tether for TMC Mechanotransduction Channels

Tang YQ, Lee SA, Rahman M, Vanapalli SA, Lu H, Schafer WR.

(2020) Neuron. S0896-6273(20)30233-6

https://pubmed.ncbi.nlm.nih.gov/32325031/

2020

Cell Biology

Interaction between the scaffold proteins CBP by IQGAP1 provides an interface between gene expression and cytoskeletal activity

Kosol S, Contreras-Martos S, Piai A, Varadi M, Lazar T, Bekesi A, Lebrun P, Felli IC, Pierattelli R, Tompa P.

(2020) Sci Rep.10(1):5753

https://pubmed.ncbi.nlm.nih.gov/32238831/

2020

Cell Biology

Disease-associated synaptic scaffold protein CNK2 modulates PSD size and influences localisation of the regulatory kinase TNIK

Zieger HL, Kunde SA, Rademacher N, Schmerl B, Shoichet SA.

(2020) Sci Rep. 10(1):5709

https://pubmed.ncbi.nlm.nih.gov/32235845/

2020

Cell Biology

APOL1 C-Terminal Variants May Trigger Kidney Disease through Interference with APOL3 Control of Actomyosin

Uzureau S, Lecordier L, Uzureau P, Hennig D, Graversen JH, Homblé F, Mfutu PE, Oliveira Arcolino F, Ramos AR, La Rovere RM, Luyten T, Vermeersch M, Tebabi P, Dieu M, Cuypers B, Deborggraeve S, Rabant M, Legendre C, Moestrup SK, Levtchenko E, Bultynck G, Erneux C, Pérez-Morga D, Pays E.

(2020) Cell Rep. 30(11):3821-3836

https://pubmed.ncbi.nlm.nih.gov/32187552/

2020

Parasitology

Identification of Fis1 Interactors in Toxoplasma gondii Reveals a Novel Protein Required for Peripheral Distribution of the Mitochondrion

Jacobs K, Charvat R, Arrizabalaga G

(2020) mBio.,11(1):e02732-19

https://www.ncbi.nlm.nih.gov/pubmed/32047127

2020

Cell Biology

A Novel Combined Scientific and Artistic Approach for the Advanced Characterization of Interactomes: The Akirin/Subolesin Model

Artigas-Jerónimo S, Comín JJP, Villar M, Contreras M, Alberdi P, Viera IL, Soto L, Cordero R, Valdés JJ, Cabezas-Cruz A, Estrada-Peña A, Fuente J.

(2020) Vaccines (Basel). 8(1):77

https://pubmed.ncbi.nlm.nih.gov/32046307/

2020

Molecular Biology - Cell Biology

Su(var)2-10 and the SUMO Pathway Link piRNA-Guided Target Recognition to Chromatin Silencing

Maria Ninova, Yung-Chia Ariel Chen, Baira Godneeva, Alicia K. Rogers, Yicheng Luo, Katalin Fejes Tóth, Alexei A. Aravin

(2020) Molecular Cell, Volume 77, Issue 3, 6 February 2020, Pages 556-570.e6

https://www.sciencedirect.com/science/article/pii/S109727651930841X?ref=pdf_download&fr=RR-2&rr=8e47781b6c722a1c

2020

Parasitylogy

Binding of Host Cell Surface Protein Disulfide Isomerase by Anaplasma phagocytophilum Asp14 Enables Pathogen Infection

Green RS, Naimi WA, Oliver LD Jr, O'Bier N, Cho J, Conrad DH, Martin RK, Marconi RT, Carlyon JA

(2020) mBio.,11(1) :e03141-19

https://www.ncbi.nlm.nih.gov/pubmed/31992623

2020

Cell Biology

TMEM98 is a negative regulator of FRAT mediated Wnt/ß-catenin signalling

van der Wal T, Lambooij JP, van Amerongen R

(2020) PLoS One.,15(1) :e0227435

https://www.ncbi.nlm.nih.gov/pubmed/31961879

2019

Virology

PAPD5/7 Are Host Factors That Are Required for Hepatitis B Virus RNA Stabilization

Henrik Mueller,Anaïs Lopez,Philipp Tropberger,Steffen Wildum,Josephine Schmaler,Lykke Pedersen,Xingchun Han,Yongguang Wang,Søren Ottosen,Song Yang,John A.T. Young,Hassan Javanbakht

(2019) Hepathology, 26 October 2018

https://aasldpubs.onlinelibrary.wiley.com/doi/abs/10.1002/hep.30329

2020

Nanobodies

Role of VAMP7-Dependent Secretion of Reticulon 3 in Neurite Growth.

Wojnacki J, Nola S, Bun P, Cholley B, Filippini F, Pressé MT, Lipecka J, Man Lam S, N'guyen J, Simon A, Ouslimani A, Shui G, Fader CM, Colombo MI, Guerrera IC, Galli T

(2020) Cell Rep. Dec 22;33(12):108536

https://pubmed.ncbi.nlm.nih.gov/33357422/

2020

Cell Biology

PAK Kinases Target Sortilin and Modulate Its Sorting

Pallesen LT, Gustafsen C, Cramer JF, Petersen SV, Thirup SS, Madsen P, Petersen CM

(2020) Mol Cell Biol., 40(3):e00411-19

https://www.ncbi.nlm.nih.gov/pubmed/31767632

2020

Nanobodies

Development and characterization of single-domain antibodies neutralizing protease nexin-1 as tools to increase thrombin generation.

Kawecki C, Aymonnier K, Ferrière S, Venisse L, Arocas V, Boulaftali Y, Christophe OD, Lenting PJ, Bouton MC, Denis CV

(2020) J Thromb Haemost. Sep;18(9):2155-2168

https://pubmed.ncbi.nlm.nih.gov/32495984/

2020

Nanobodies

Structural basis for the dominant or recessive character of GLIALCAM mutations found in leukodystrophies

Elorza-Vidal X, Xicoy-Espaulella E, Pla-Casillanis A, Alonso-Gardón M, Gaitán-Peñas H, Engel-Pizcueta C, Fernández-Recio J, Estévez R

(2020) Hum Mol Genet. May 8;29(7):1107-1120

https://pubmed.ncbi.nlm.nih.gov/31960914/

2020

Nanobodies

Single-domain antibodies for functional targeting of the signaling scaffold Shoc2

Jang H, Wilson PG, Sau M, Chawla U, Rodgers DW, Galperin E

(2020) Mol Immunol. Feb;118:110-116

https://pubmed.ncbi.nlm.nih.gov/31869742/

2019

Nanobodies

Single Domain Antibody Fragments as New Tools for the Detection of Neuronal Tau Protein in Cells and in Mice Studies

Dupré E, Danis C, Arrial A, Hanoulle X, Homa M, Cantrelle FX, Merzougui H, Colin M, Rain JC, Buée L, Landrieu I

(2019) ACS Chem Neurosci. Sep 18;10(9):3997-4006

https://pubs.acs.org/doi/10.1021/acschemneuro.9b00217

2016

Nanobodies

NaLi-H1: A universal synthetic library of humanized nanobodies providing highly functional antibodies and intrabodies

Moutel S, Bery N, Bernard V, Keller L, Lemesre E, de Marco A, Ligat L, Rain JC, Favre G, Olichon A, Perez F

(2016) eLife Jul 19;5

https://elifesciences.org/articles/16228

2020

Cell Biology

Two-hybrid screening of FAM13A protein partners in lung epithelial cells

Ruffin M, Thompson KE, Corvol H, Guillot L

(2020) BMC Res Notes. 12(1):804

https://www.ncbi.nlm.nih.gov/pubmed/31900205

2020

Development

TBX1 is required for normal stria vascularis and semicircular canal development

Tian C, Johnson KR

(2020) Dev Biol. 457(1):91-103

https://www.ncbi.nlm.nih.gov/pubmed/31550482

2019

Cancer Research

Annexin A6 improves anti-migratory and anti-invasive properties of tyrosine kinase inhibitors in EGFR overexpressing human squamous epithelial cells

Hoque M, Elmaghrabi YA, Köse M, Beevi SS, Jose J, Meneses-Salas E, Blanco-Muñoz P, Conway JRW, Swarbrick A, Timpson P, Tebar F, Enrich C, Rentero C, Grewal T

FEBS J

https://www.ncbi.nlm.nih.gov/pubmed/31869496

2019

Microbiology

Ubiquitination of Listeria Virulence Factor InlC Contributes to the Host Response to Infection

Gouin E, Balestrino D, Rasid O, Nahori MA, Villiers V, Impens F, Volant S, Vogl T, Jacob Y, Dussurget O, Cossart P.

(2019) mBio., 10(6)

https://www.ncbi.nlm.nih.gov/pubmed/?term=10.1128%2FmBio.02778-19

2019

Immunology

Interleukin-38 interacts with destrin/actin-depolymerizing factor in human keratinocytes

Talabot-Ayer D, Mermoud L, Borowczyk J, Drukala J, Wolnicki M, Modarressi A, Boehncke WH, Brembilla N, Palmer G

(2019) PLoS One., 14(11)

https://www.ncbi.nlm.nih.gov/pubmed/31770407

2019

Neuroscience

FIGNL1 associates with KIF1Bβ and BICD1 to restrict dynein transport velocity during axon navigation

Atkins M, Gasmi L, Bercier V, Revenu C, Del Bene F, Hazan J, Fassier C

(2019) J Cell Biol., 218(10):3290-3306

https://www.ncbi.nlm.nih.gov/pubmed/31541015

2019

Neuroscience

Identification of HIVEP2 as a dopaminergic transcription factor related to substance use disorders in rats and humans. Transl Psychiatry

Zhao J, Chen C, Bell RL, Qing H, Lin Z

(2019) Transl Psychiatry., 9(1):247

https://www.ncbi.nlm.nih.gov/pubmed/31586043

2019

Immunology

TRIM58 Restrains Intestinal Mucosal Inflammation by Negatively Regulating TLR2 in Myeloid Cells

Eyking A, Ferber F, Köhler S, Reis H, Cario E

J Immunol. 2019 Sep 15;203(6):1636-1649

https://www.ncbi.nlm.nih.gov/pubmed/31383741

2019

Cell Biology

lipid-binding protein mediates rhoptry discharge and invasion in Plasmodium falciparum and Toxoplasma gondii parasites

Suarez C, Lentini G, Ramaswamy R, Maynadier M, Aquilini E, Berry-Sterkers L, Cipriano M, Chen AL, Bradley P, Striepen B, Boulanger MJ, Lebrun M. A

Nat Commun. 2019 Sep 6;10(1):4041

https://www.ncbi.nlm.nih.gov/pubmed/31492901

2019

Cell Biology

A kinetochore-based ATM/ATR-independent DNA damage checkpoint maintains genomic integrity in trypanosomes

Zhou Q, Pham KTM, Hu H, Kurasawa Y, Li Z

Nucleic Acids Res. 2019 sept 15; 47 (15) 7973–7988

https://www.ncbi.nlm.nih.gov/pubmed/31147720

2019

Cell Biology

The novel cyclophilin-D-interacting protein FASTKD1 protects cells against oxidative stress-induced cell death

Marshall KD, Klutho PJ, Song L, Krenz M, Baines CP

(2019) Am J Physiol Cell Physiol. 317(3):C584-C599

https://www.ncbi.nlm.nih.gov/pubmed/31268778

2019

Development

An actin-based viscoplastic lock ensures progressive body-axis elongation

Lardennois A, Pásti G, Ferraro T, Llense F, Mahou P, Pontabry J, Rodriguez D, Kim S, Ono S, Beaurepaire E, Gally C, Labouesse M

Nature. 2019 Sep;573(7773):266-270

https://www.ncbi.nlm.nih.gov/pubmed/31462781

2019

Cell Biology

SUMO-Chain-Regulated Proteasomal Degradation Timing Exemplified in DNA Replication Initiation

Psakhye I, Castellucci F, Branzei D

Mol Cell. 2019 Aug 28. pii: S1097-2765(19)30619-7

https://www.ncbi.nlm.nih.gov/pubmed/?term=31519521

2019

Neuroscience

HENA, heterogeneous network-based data set for Alzheimer's disease

Sügis E, Dauvillier J, Leontjeva A, Adler P, Hindie V, Moncion T, Collura V, Daudin R, Loe-Mie Y, Herault Y, Lambert JC, Hermjakob H, Pupko T, Rain JC, Xenarios I, Vilo J, Simonneau M, Peterson H

Sci Data. 2019 Aug 14;6(1):151

https://www.ncbi.nlm.nih.gov/pubmed/31413325

2019

Cell Biology

A Heterochromatin-Specific RNA Export Pathway Facilitates piRNA Production

ElMaghraby MF, Andersen PR, Pühringer F, Hohmann U, Meixner K, Lendl T, Tirian L, Brennecke J

(2019) Cell. Aug 8;178(4):964-979

https://pubmed.ncbi.nlm.nih.gov/31398345/

2019

Virology

KHNYN is essential for the zinc finger antiviral protein (ZAP) to restrict HIV-1 containing clustered CpG dinucleotides

Ficarelli M, Wilson H, Pedro Galão R, Mazzon M, Antzin-Anduetza I, Marsh M, Neil SJ, Swanson CM

Elife. 2019 Jul 9;8

https://www.ncbi.nlm.nih.gov/pubmed/31284899

2019

Plant Biology

Bipartite anchoring of SCREAM enforces stomatal initiation by coupling MAP kinases to SPEECHLESS

Putarjunan A, Ruble J, Srivastava A, Zhao C, Rychel AL, Hofstetter AK, Tang X, Zhu JK, Tama F, Zheng N, Torii KU

Nat Plants. 2019 Jul;5(7):742-754

https://www.ncbi.nlm.nih.gov/pubmed/31235876

2019

Cell Biology

Slx5/Slx8-dependent ubiquitin hotspots on chromatin contribute to stress tolerance

Höpfler M, Kern MJ, Straub T, Prytuliak R, Habermann BH, Pfander B, Jentsch S

(2019) EMBO J. Jun 3;38(11)

https://www.ncbi.nlm.nih.gov/pubmed/31015336

2019

Neuroscience

VCP/p97 controls signals of the ERK1/2 pathway transmitted via the Shoc2 scaffolding complex: novel insights into IBMPFD pathology

Jang H, Jang ER, Wilson PG, Anderson D, Galperin E

(2019) Mol Biol Cell. 30(14):1655-1663

https://www.ncbi.nlm.nih.gov/pubmed/31091164

2019

Neuroscience

Downregulated Wnt/β-catenin signalling in the Down syndrome hippocampus

Granno S, Nixon-Abell J, Berwick DC, Tosh J, Heaton G, Almudimeegh S, Nagda Z, Rain JC, Zanda M, Plagnol V, Tybulewicz VLJ, Cleverley K, Wiseman FK, Fisher EMC, Harvey K

(2019) Sci Rep. May 13;9(1):7322

https://www.ncbi.nlm.nih.gov/pubmed/31086297

2019

Cell Biology

The mouse intron-nested gene, Israa, is expressed in the lymphoid organs and involved in T-cell activation and signaling

Ben Khalaf N, Al-Mashoor W, Saeed A, Al-Mehatab D, Taha S, Bakhiet M, Fathallah MD

(2019) Mol Immunol. Jul;111:209-219

https://www.ncbi.nlm.nih.gov/pubmed/31096062

2019

Neuroscience

Csmd2 Is a Synaptic Transmembrane Protein that Interacts with PSD-95 and Is Required for Neuronal Maturation

Gutierrez MA, Dwyer BE, Franco SJ

(2019) eNeuro. May 7;6(2)

https://www.ncbi.nlm.nih.gov/pubmed/31073541

2019

Cell Biology - Molecular Biology

Dysregulation of NRAP degradation by KLHL41 contributes to pathophysiology in nemaline myopathy

Caroline Jirka , Jasmine H Pak , Claire A Grosgogeat , Michael Mario Marchetii , Vandana A Gupta

(2019) Hum Mol Genet. 2019 Apr 15;28(15):2549–2560. doi: 10.1093/hmg/ddz078

https://pmc.ncbi.nlm.nih.gov/articles/PMC6644164/

2019

Cell Biology

Identification of transmembrane protein 237 as a novel interactor with the intestinal riboflavin transporter-3 (RFVT-3): role in functionality and cell biology

Sabui S, Subramanian VS, Pham Q, Said HM

(2019) Am J Physiol Cell Physiol. 316(6):C805-C814

https://www.ncbi.nlm.nih.gov/pubmed/30892938

2019

Cell Biology

FKBP12: A partner of Snx10 required for vesicular trafficking in osteoclasts

Battaglino RA, Jha P, Sultana F, Liu W, Morse LR

(2019) J Cell Biochem. 120(8):13321-13329

https://www.ncbi.nlm.nih.gov/pubmed/30887568

2019

Plant Biology

A wheat NAC interacts with an orphan protein and enhances resistance to Fusarium head blight disease

Perochon A, Kahla A, Vranić M, Jia J, Malla KB, Craze M, Wallington E, Doohan FM

(2019) Plant Biotechnol J. 17(10):1892-1904

https://www.ncbi.nlm.nih.gov/pubmed/30821405?report=abstract

2019

Cell Biology

Rho-family GTPase 1 (Rnd1) is a biomechanical stress-sensitive activator of cardiomyocyte hypertrophy

Kluge A, Rangrez AY, Kilian LS, Pott J, Bernt A, Frauen R, Rohrbeck A, Frey N, Frank D

J Mol Cell Cardiol. 2019 Feb 21;129:130-143

https://www.ncbi.nlm.nih.gov/pubmed/30797814

2019

Plant Biology

GmZPR3d Interacts with GmHD-ZIP III Proteins and Regulates Soybean Root and Nodule Vascular Development

Damodaran S, Dubois A, Xie J, Ma Q, Hindié V, Subramanian S

Int J Mol Sci. 2019 Feb 14;20(4)

https://www.ncbi.nlm.nih.gov/pubmed/30769886

2019

Cancer Research

A meiosis-specific BRCA2 binding protein recruits recombinases to DNA double-strand breaks to ensure homologous recombination

Zhang J, Fujiwara Y, Yamamoto S, Shibuya H

Nat Commun. 2019 Feb 13;10(1):722

https://www.ncbi.nlm.nih.gov/pubmed/30760716

2019

Microbiology

Shigella IpaA Binding to Talin Stimulates Filopodial Capture and Cell Adhesion

Valencia-Gallardo C, Bou-Nader C, Aguilar-Salvador DI, Carayol N, Quenech'Du N, Pecqueur L, Park H, Fontecave M, Izard T, Tran Van Nhieu G

(2019) Cell Rep., 26(4):921-932.e6

https://www.ncbi.nlm.nih.gov/pubmed/30673614

2019

Development

The apical protein Apnoia interacts with Crumbs to regulate tracheal growth and inflation

Skouloudaki K, Papadopoulos DK, Tomancak P, Knust E

(2019) PLoS Genet., 15(1):e1007852

https://www.ncbi.nlm.nih.gov/pubmed/30645584

2019

Cell Biology

Headcase and Unkempt Regulate Tissue Growth and Cell Cycle Progression in Response to Nutrient Restriction

Li N, Liu Q, Xiong Y, Yu J

(2019) Cell Rep. 26(3):733-747.e3.

https://www.ncbi.nlm.nih.gov/pubmed/30650363

2019

Plant Biology

PII1: a protein involved in starch initiation that determines granule number and size in Arabidopsis chloroplast

Vandromme C, Spriet C, Dauvillée D, Courseaux A, Putaux JL, Wychowski A, Krzewinski F, Facon M, D'Hulst C, Wattebled F

(2019) New Phytol. Jan;221(1):356-370

https://www.ncbi.nlm.nih.gov/pubmed/30055112

2019

Development

salto/CG13164 is required for sperm head morphogenesis in Drosophila

Augière C, Lapart JA, Duteyrat JL, Cortier E, Maire C, Thomas J, Durand B

Mol Biol Cell. 2019 Mar 1;30(5):636-645

https://www.ncbi.nlm.nih.gov/pubmed/30601696

2019

Immunology

NLRP10 Affects the Stability of Abin-1 To Control Inflammatory Responses

Mirza N, Sowa AS, Lautz K, Kufer TA

(2019) J Immunol., 202(1):218-227

https://www.ncbi.nlm.nih.gov/pubmed/30510071

2019

Cell Biology

The USTC co-opts an ancient machinery to drive piRNA transcription in C. elegans

Weng C, Kosalka J, Berkyurek AC, Stempor P, Feng X, Mao H, Zeng C, Li WJ, Yan YH, Dong MQ, Morero NR, Zuliani C, Barabas O, Ahringer J, Guang S, Miska EA

Genes Dev. 2019 Jan 1;33(1-2):90-102

https://www.ncbi.nlm.nih.gov/pubmed/30567997

2018

Immunology

Grainyhead-like-2 confers NK-sensitivity through interactions with epigenetic modifier

MacFawn I, Wilson H, Selth LA, Leighton I, Serebriiskii I, Bleackley RC, Elzamzamy O, Farris J, Pifer PM, Richer J, Frisch SM

(2018) Mol Immunol., 105:137-149

https://www.ncbi.nlm.nih.gov/pubmed/30508726

2018

Virology

Multiple components of the nuclear pore complex interact with the amino-terminus of MX2 to facilitate HIV-1 restriction

Dicks MDJ, Betancor G, Jimenez-Guardeño JM, Pessel-Vivares L, Apolonia L, Goujon C, Malim MH

(2018) PLoS Pathog.,14(11):e1007408

https://www.ncbi.nlm.nih.gov/pubmed/30496303

2018

Neuroscience

The E3 Ubiquitin Ligases TRIM17 and TRIM41 Modulate α-Synuclein Expression by Regulating ZSCAN21

Lassot I, Mora S, Lesage S, Zieba BA, Coque E, Condroyer C, Bossowski JP, Mojsa B, Marelli C, Soulet C, Tesson C, Carballo-Carbajal I, Laguna A, Mangone G, Vila M, Brice A, Desagher S

(2018) Cell Rep., 25(9):2484-2496.e9

https://www.ncbi.nlm.nih.gov/pubmed/30485814

2018

Plant Biology

Proteasome-associated HECT-type ubiquitin ligase activity is required for plant immunity

Furniss JJ, Grey H, Wang Z, Nomoto M, Jackson L, Tada Y, Spoel SH

(2018) PLoS Pathog., 14(11):e1007447

https://www.ncbi.nlm.nih.gov/pubmed/30458055

2018

Plant Biology

A common genetic mechanism underlies morphological diversity in fruits and other plant organs

Wu S, Zhang B, Keyhaninejad N, Rodríguez GR, Kim HJ, Chakrabarti M, Illa-Berenguer E, Taitano NK, Gonzalo MJ, Díaz A, Pan Y, Leisner CP, Halterman D, Buell CR, Weng Y, Jansky SH, van Eck H, Willemsen J, Monforte AJ, Meulia T, van der Knaap E

(2018) Nat Commun., 9(1):4734

https://www.ncbi.nlm.nih.gov/pubmed/30413711

2018

Neuroscience

ER-mitochondria cross-talk is regulated by the Ca2+ sensor NCS1 and is impaired in Wolfram syndrome

Angebault C, Fauconnier J, Patergnani S, Rieusset J, Danese A, Affortit CA, Jagodzinska J, Mégy C, Quiles M, Cazevieille C, Korchagina J, Bonnet-Wersinger D, Milea D, Hamel C, Pinton P, Thiry M, Lacampagne A, Delprat B, Delettre C

(2018) Science Signal., 11(553)

https://www.ncbi.nlm.nih.gov/pubmed/30352948

2018

Cell Biology

PiT1/Slc20a1 is required for endoplasmic reticulum homeostasis, chondrocyte survival and skeletal development

Couasnay G, Bon N, Devignes CS, Sourice S, Bianchi A, Véziers J, Weiss P, Elefteriou F, Provot S, Guicheux J, Beck-Cormier S, Beck L

J Bone Miner Res. 2019 Feb;34(2):387-398

https://www.ncbi.nlm.nih.gov/pubmed/30347511

2018

Parasitology

Characterization of a Toxoplasma effector uncovers an alternative GSK3/β-catenin-regulatory pathway of inflammation

He H, Brenier-Pinchart M, Braun L, Kraut A, Touquet B, Couté Y, Tardieux I, Hakimi MA, Bougdour A

(2018) Elife, 7. pii: e39887

https://www.ncbi.nlm.nih.gov/pubmed/30320549

2018

Cell Biology

Nuclear RNR-α antagonizes cell proliferation by directly inhibiting ZRANB3

Fu Y, Long MJC, Wisitpitthaya S, Inayat H, Pierpont TM, Elsaid IM, Bloom JC, Ortega J, Weiss RS, Aye Y

(2018) Nat Chem Biol., 14(10):943-954

https://www.ncbi.nlm.nih.gov/pubmed/30150681

2018

Cell Biology

NONO Detects the Nuclear HIV Capsid to Promote cGAS-Mediated Innate Immune Activation

Lahaye X, Gentili M, Silvin A, Conrad C, Picard L, Jouve M, Zueva E, Maurin M, Nadalin F, Knott GJ, Zhao B, Du F, Rio M, Amiel J, Fox AH, Li P, Etienne L, Bond CS, Colleaux L, Manel N

(2018) Cell, 175(2):488-501.e22

https://www.ncbi.nlm.nih.gov/pubmed/30270045

2018

Cell Biology

Fam49/CYRI interacts with Rac1 and locally suppresses protrusions

Fort L, Batista JM, Thomason PA, Spence HJ, Whitelaw JA, Tweedy L, Greaves J, Martin KJ, Anderson KI, Brown P, Lilla S, Neilson MP, Tafelmeyer P, Zanivan S, Ismail S, Bryant DM, Tomkinson NCO, Chamberlain LH, Mastick GS, Insall RH, Machesky LM

(2018) Nat Cell Biol., 20(10):1159-1171

https://www.ncbi.nlm.nih.gov/pubmed/30250061

2018

Cancer Research

VOPP1 promotes breast tumorigenesis by interacting with the tumor suppressor WWOX

Bonin F, Taouis K, Azorin P, Petitalot A, Tariq Z, Nola S, Bouteille N, Tury S, Vacher S, Bièche I, Rais KA, Pierron G, Fuhrmann L, Vincent-Salomon A, Formstecher E, Camonis J, Lidereau R, Lallemand F, Driouch K

(2018) BMC Biol., 16(1):109

https://www.ncbi.nlm.nih.gov/pubmed/30285739

2018

Plant Biology

Arabidopsis Protein Kinase D6PKL3 Is Involved in the Formation of Distinct Plasma Membrane Aperture Domains on the Pollen Surface

Lee BH, Weber ZT, Zourelidou M, Hofmeister BT, Schmitz RJ, Schwechheimer C, Dobritsa AA

(2018) Plant Cell. Sep;30(9):2038-2056

https://www.ncbi.nlm.nih.gov/pubmed/30150313

2018

Cell Biology

A role for Mog1 in H2Bub1 and H3K4me3 regulation affecting RNAPII transcription and mRNA export

Oliete-Calvo P, Serrano-Quílez J, Nuño-Cabanes C, Pérez-Martínez ME, Soares LM, Dichtl B, Buratowski S, Pérez-Ortín JE, Rodríguez-Navarro S

(2018) EMBO Rep. Nov;19(11)

https://www.ncbi.nlm.nih.gov/pubmed/30249596

2018

Cancer Research

The Tumor Suppressor SASH1 Interacts With the Signal Adaptor CRKL to Inhibit Epithelial–Mesenchymal Transition and Metastasis in Colorectal Cancer

Franke FC, Müller J, Abal M, Medina ED, Nitsche U, Weidmann H, Chardonnet S, Ninio E, Janssen KP

(2018) Cell Mol Gastroenterol Hepatol., 7(1):33-53

https://www.ncbi.nlm.nih.gov/pubmed/30480076

2018

Cell Biology

Integrating Rio1 activities discloses its nutrient-activated network in Saccharomyces cerevisiae

Iacovella MG, Bremang M, Basha O, Giacò L, Carotenuto W, Golfieri C, Szakal B, Dal Maschio M, Infantino V, Beznoussenko GV, Joseph CR, Visintin C, Mironov AA, Visintin R, Branzei D, Ferreira-Cerca S, Yegezei D, Ferreira-Cerca S, Yeger-Loter-Lotem E, De Wulf P

Nucleic Acids Res. 2018 Sep 6;46(15):7586-7611

https://www.ncbi.nlm.nih.gov/pubmed/30011030

2018

Plant Biology

Phosphorylation of Arabidopsis SINA2 by CDKG1 affects its ubiquitin ligase activity

Chen Y, Fokar M, Kang M, Chen N, Allen RD, Chen Y

(2018) BMC Plant Biol., 18(1):147

https://www.ncbi.nlm.nih.gov/pubmed/30012094

2018

Cell Biology

A senataxin-associated exonuclease SAN1 is required for resistance to DNA interstrand cross-links

Andrews AM, McCartney HJ, Errington TM, D'Andrea AD, Macara IG

(2018) Nat Commun., 9(1):2592

https://www.ncbi.nlm.nih.gov/pubmed/29968717

2018

Cell Biology

Interactions between monomeric CCTδ and p150Glued: A novel function for CCTδ at the cell periphery distinct from the protein folding activity of the molecular chaperone CCT

Echbarthi M, Vallin J, Grantham J

(2018) Exp Cell Res. Sep 1;370(1):137-149

https://www.ncbi.nlm.nih.gov/pubmed/29913154

2018

Microbiology

Lmo1656 is a secreted virulence factor of Listeria monocytogenes that interacts with the sorting nexin 6-BAR complex

David DJ, Pagliuso A, Radoshevich L, Nahori MA, Cossart P

(2018) J Biol Chem. Jun 15;293(24):9265-9276

https://pubmed.ncbi.nlm.nih.gov/29666193/

2018

Neuroscience

LPS-Induced Inflammation Abolishes the Effect of DYRK1A on IkB Stability in the Brain of Mice

Latour A, Gu Y, Kassis N, Daubigney F, Colin C, Gausserès B, Middendorp S, Paul JL, Hindié V, Rain JC, Delabar JM, Yu E, Arbones M, Mallat M, Janel N

Mol Neurobiol. 2019 Feb;56(2):963-975

https://www.ncbi.nlm.nih.gov/pubmed/29850989

2018

Cell Biology

The RPAP3-Cterminal domain identifies R2TP-like quaternary chaperones

Maurizy C, Quinternet M, Abel Y, Verheggen C, Santo PE, Bourguet M, C F Paiva A, Bragantini B, Chagot ME, Robert MC, Abeza C, Fabre P, Fort P, Vandermoere F, M F Sousa P, Rain JC, Charpentier B, Cianférani S, Bandeiras TM, Pradet-Balade B, Manival X, Bertrand E

(2018) Nat Commun., 9(1):2093

https://www.ncbi.nlm.nih.gov/pubmed/29844425

2018

Plant Biology

Leptosphaeria maculans Effector Protein AvrLm1 Modulates Plant Immunity by Enhancing MAP Kinase 9 Phosphorylation

L Ma, M Djavaheri, H Wang, N J. Larkan, P Haddadi, E Beynon, G Gropp, M H Borhan

(2018) iScience, 3 , 177–191,

https://www.cell.com/iscience/abstract/S2589-0042(18)30047-6

2019

Cell Biology

Interactions between lysyl oxidases and ADAMTS proteins suggest a novel crosstalk between two extracellular matrix families

Aviram R, Zaffryar-Eilot S, Hubmacher D, Grunwald H, Mäki JM, Myllyharju J, Apte SS, Hasson P

Matrix Biol. 2019 Jan;75-76:114-125

https://www.ncbi.nlm.nih.gov/pubmed/29758265

2018

Cancer Research

Hey1- and p53-dependent TrkC proapoptotic activity controls neuroblastoma growth

Ménard M, Costechareyre C, Ichim G, Blachier J, Neves D, Jarrosson-Wuilleme L, Depping R, Koster J, Saintigny P, Mehlen P, Tauszig-Delamasure S

(2018)PLoS Biol., 16(5):e2002912

https://www.ncbi.nlm.nih.gov/pubmed/29750782

2018

Microbiology

Complement C3 Drives Autophagy-Dependent Restriction of Cyto-invasive Bacteria

Sorbara MT, Foerster EG, Tsalikis J, Abdel-Nour M, Mangiapane J, Sirluck-Schroeder I, Tattoli I, van Dalen R, Isenman DE, Rohde JR, Girardin SE, Philpott DJ

(2018) Cell Host Microbe, 23(5):644-652.e5

https://www.ncbi.nlm.nih.gov/pubmed/29746835

2018

Cell Biology

Disentangling the molecular determinants for Cenp-F localization to nuclear pores and kinetochores

Berto A, Yu J, Morchoisne-Bolhy S, Bertipaglia C, Vallee R, Dumont J, Ochsenbein F, Guerois R, Doye V

(2018) EMBO Rep., 19(5). pii: e44742

https://www.ncbi.nlm.nih.gov/pubmed/29632243

2018

Neuroscience

The striatal kinase DCLK3 produces neuroprotection against mutant huntingtin

Galvan L, Francelle L, Gaillard MC, de Longprez L, Carrillo-de Sauvage MA, Liot G, Cambon K, Stimmer L, Luccantoni S, Flament J, Valette J, de Chaldée M, Auregan G, Guillermier M, Joséphine C, Petit F, Jan C, Jarrige M, Dufour N, Bonvento G, Humbert S, Saudou F, Hantraye P, Merienne K, Bemelmans AP, Perrier AL, Déglon N, Brouillet E

(2018) Brain, 141(5):1434-1454

https://www.ncbi.nlm.nih.gov/pubmed/29534157

2018

Microbiology

Ehrlichia chaffeensis TRP75 Interacts with Host Cell Targets Involved in Homeostasis, Cytoskeleton Organization, and Apoptosis Regulation To Promote Infection

Luo T, Mitra S, McBride JW

(2018) mSphere., 3(2). pii: e00147-18

https://www.ncbi.nlm.nih.gov/pubmed/29643078

2018

Cell Biology

The MT-CO1 V83I Polymorphism is a Risk Factor for Primary Open-Angle Glaucoma in African American Men

Collins DW, Gudiseva HV, Chavali VRM, Trachtman B, Ramakrishnan M, Merritt WT III, Pistilli M, Rossi RA, Blachon S, Sankar PS, Miller-Ellis E, Lehman A, Addis V, O'Brien JM

(2018) Invest. Ophthalmol. Vis. Sci., 59(5):1751-1759

https://www.ncbi.nlm.nih.gov/pubmed/29610859

2018

Cell Biology

The apical scaffold big bang binds to spectrins and regulates the growth of Drosophila melanogaster wing discs

Forest E, Logeay R, Géminard C, Kantar D, Frayssinoux F, Heron-Milhavet L, Djiane A

(2018) J Cell Biol., 217(3):1047-1062

https://www.ncbi.nlm.nih.gov/pubmed/29326287

2018

Plant Biology

The intracellular immune receptor Rx1 regulates the DNA-binding activity of a Golden2-like transcription factor

Townsend PD, Dixon CH, Slootweg EJ, Sukarta OCA, Yang AWH, Hughes TR, Sharples GJ, Pålsson LO, Takken FLW, Goverse A, Cann MJ

(2018)J Biol Chem., 293(9):3218-3233

https://www.ncbi.nlm.nih.gov/pubmed/29217772

2018

Plant Biology

A virus-targeted plant receptor-like kinase promotes cell-to-cell spread of RNAi

Rosas-Diaz T, Zhang D, Fan P, Wang L, Ding X, Jiang Y, Jimenez-Gongora T, Medina-Puche L, Zhao X, Feng Z, Zhang G, Liu X, Bejarano ER, Tan L, Zhang H, Zhu JK, Xing W, Faulkner C, Nagawa S, Lozano-Duran R

(2018) PNAS, 115(6):1388-1393

https://www.ncbi.nlm.nih.gov/pubmed/29363594

2018

Cell Biology

Repression of Cell Differentiation by a cis-Acting lincRNA in Fission Yeast

Fauquenoy S, Migeot V, Finet O, Yague-Sanz C, Khorosjutina O, Ekwall K, Hermand D

(2018) Curr Biol., 28(3):383-391.e3

https://www.ncbi.nlm.nih.gov/pubmed/29395921

2018

Plant Biology

Members of the DEAL subfamily of the DUF1218 gene family are required for bilateral symmetry but not for dorsoventrality in Arabidopsis leaves

Wilson-Sánchez D, Martínez-López S, Navarro-Cartagena S, Jover-Gil S, Micol JL

(2018) New Phytol., 217(3):1307-1321

https://www.ncbi.nlm.nih.gov/pubmed/29139551

2018

Metabolism

A null variant in the apolipoprotein L3 gene is associated with non-diabetic nephropathy

Skorecki KL, Lee JH, Langefeld CD, Rosset S, Tzur S, Wasser WG, Shemer R, Hawkins GA, Divers J, Parekh RS, Li M, Sampson MG, Kretzler M, Pollak MR, Shah S, Blackler D, Nichols B, Wilmot M, Alper SL, Freedman BI, Friedman DJ

(2018) Nephrol Dial Transplant, 33(2):323-330

https://www.ncbi.nlm.nih.gov/pubmed/28339911

2018

Cell Biology

A mechanism for epigenetic control of DNA replication

Sansam CG, Pietrzak K, Majchrzycka B, Kerlin MA, Chen J, Rankin S, Sansam CL

(2018) Genes Dev., 32(3-4):224-229

https://www.ncbi.nlm.nih.gov/pubmed/29483155

2018

Cancer Research

SILAC identifies LAD1 as a filamin-binding regulator of actin dynamics in response to EGF and a marker of aggressive breast tumors

Roth L, Srivastava S, Lindzen M, Sas-Chen A, Sheffer M, Lauriola M, Enuka Y, Noronha A, Mancini M, Lavi S, Tarcic G, Pines G, Nevo N, Heyman O, Ziv T, Rueda OM, Gnocchi D, Pikarski E, Admon A, Caldas C, Yarden Y

(2018) Sci Signal., 11(515). pii: eaan0949

https://www.ncbi.nlm.nih.gov/pubmed/29382783

2018

Plant Biology

Potato mop-top virus co-opts the stress sensor HIPP26 for long-distance movement

Cowan GH, Roberts AG, Jones S, Kumar P, Kalyandurg PB, Gil JF, Savenkov E, Hemsley PA, Torrance L

(2018) Plant Physiol., 176(3):2052-2070

https://www.ncbi.nlm.nih.gov/pubmed/29374107

2018

Cancer Research

A caspase-2-RFXANK interaction and its implication for MHC class II expression

Forsberg J, Li X, Akpinar B, Salvatori R, Ott M, Zhivotovsky B, Olsson M

(2018) Cell Death Dis., 9(2):80

https://www.ncbi.nlm.nih.gov/pubmed/29362422

2018

Virology

Human adenovirus infection causes the cellular MKRN1 E3 ubiquitin ligase degradation involving the viral core protein pVII

Inturi R, Mun K, Singethan K, Schreiner S, Punga T

(2018) J. Virol., 92(3). pii: e01154-17

https://www.ncbi.nlm.nih.gov/pubmed/29142133

2018

Neuroscience

miR-126-5p promotes retinal endothelial cell survival through SetD5 regulation in neurons

Villain G, Poissonnier L, Noueihed B, Bonfils G, Rivera JC, Chemtob S, Soncin F, Mattot V

(2018) Development, 145(1). pii: dev156232

https://www.ncbi.nlm.nih.gov/pubmed/29180574

2018

Cell Biology

Cardiac-enriched BAF chromatin-remodeling complex subunit Baf60c regulates gene expression programs essential for heart development and function

Sun X, Hota SK, Zhou YQ, Novak S, Miguel-Perez D, Christodoulou D, Seidman CE, Seidman JG, Gregorio CC, Henkelman RM, Rossant J, Bruneau BG

(2018) Biol. Open, 7(1). pii: bio029512

https://www.ncbi.nlm.nih.gov/pubmed/29183906

2017

Cell Biology

Daple coordinates organ-wide and cell-intrinsic polarity to pattern inner-ear hair bundles

Siletti K, Tarchini B, Hudspeth AJ

(2017) Proc. Natl. Acad. Sci. U S A, 114(52):E11170-E11179

https://www.ncbi.nlm.nih.gov/pubmed/29229865

2017

Cell Biology

The PRDM9 KRAB domain is required for meiosis and involved in protein interactions

Imai Y, Baudat F, Taillepierre M, Stanzione M, Toth A, de Massy B

(2017) Chromosoma, 126(6):681-695

https://www.ncbi.nlm.nih.gov/pubmed/28527011

2017

Cell Biology

Drosophila protein phosphatases 2A B' Wdb and Wrd regulate meiotic centromere localization and function of the MEI-S332 Shugoshin

Pinto BS, Orr-Weaver TL

(2017) Proc Natl Acad Sci U S A., 114(49):12988-12993

https://www.ncbi.nlm.nih.gov/pubmed/29158400

2017

Cell Biology

Mutations in the X-linked ATP6AP2 cause a glycosylation disorder with autophagic defects

Rujano MA, Cannata Serio M, Panasyuk G, Péanne R, Reunert J, Rymen D, Hauser V, Park JH, Freisinger P, Souche E, Guida MC, Maier EM, Wada Y, Jäger S, Krogan NJ, Kretz O, Nobre S, Garcia P, Quelhas D, Bird TD, Raskind WH, Schwake M, Duvet S, Foulquier F, Matthijs G, Marquardt T, Simons M

(2017) J Exp Med., 214(12):3707-3729

https://www.ncbi.nlm.nih.gov/pubmed/29127204

2017

Immunology

Orientia tsutsugamushi modulates endoplasmic reticulum-associated degradation to benefit its growth

Rodino KG, VieBrock L, Evans SM, Ge H, Richards AL, Carlyon JA

Infect Immun. 2017 Dec 19;86(1). pii: e00596-17

https://www.ncbi.nlm.nih.gov/pubmed/29109174

2017

Cell Biology

Selenoprotein T is a novel OST subunit that regulates UPR signaling and hormone secretion

Hamieh A, Cartier D, Abid H, Calas A, Burel C, Bucharles C, Jehan C, Grumolato L, Landry M, Lerouge P, Anouar Y, Lihrmann I

(2017) EMBO Rep. 18(11):1935-1946

https://www.ncbi.nlm.nih.gov/pubmed/28928140

2017

Microbiology

OrfX, a Nucleomodulin Required for Listeria monocytogenes Virulence

Prokop A, Gouin E, Villiers V, Nahori MA, Vincentelli R, Duval M, Cossart P, Dussurget O

(2017) MBio, 8(5). pii: e01550-17

https://www.ncbi.nlm.nih.gov/pubmed/29089430

2017

Parasitology

Efficient invasion by Toxoplasma depends on the subversion of host protein networks

Guérin A, Corrales RM, Parker ML, Lamarque MH, Jacot D, El Hajj H, Soldati-Favre D, Boulanger MJ, Lebrun M

(2017) Nat Microbiol., 2(10):1358-1366

https://www.ncbi.nlm.nih.gov/pubmed/28848228

2017

Immunology

The Scaffolding Protein IQGAP1 Interacts with NLRC3 and Inhibits Type I IFN Production

Tocker AM, Durocher E, Jacob KD, Trieschman KE, Talento SM, Rechnitzer AA, Roberts DM, Davis BK

(2017) J Immunol., 199(8):2896-2909

https://www.ncbi.nlm.nih.gov/pubmed/28864474

2017

Neuroscience

The neurosteroid pregnenolone reverts microtubule derangement induced by the loss of a functional CDKL5-IQGAP1 complex

Barbiero I, Peroni D, Tramarin M, Chandola C, Rusconi L, Landsberger N, Kilstrup-Nielsen C

(2017) Hum Mol Genet., 26(18):3520-3530

https://www.ncbi.nlm.nih.gov/pubmed/28641386

2017

Cell Biology

Golgi-Resident Gαo Promotes Protrusive Membrane Dynamics

Solis GP, Bilousov O, Koval A, Lüchtenborg AM, Lin C, Katanaev VL

(2017) Cell, 170(5):939-955.e24

https://www.ncbi.nlm.nih.gov/pubmed/28803726

2017

Neuroscience

Protein kinase C regulates AMPA receptor auxiliary protein Shisa9/CKAMP44 through interactions with neuronal scaffold PICK1

Kunde SA, Rademacher N, Zieger H, Shoichet SA

(2017) FEBS Open Bio., 7(9):1234-1245

https://www.ncbi.nlm.nih.gov/pubmed/28904854

2017

Cell Biology

Structural Basis for Specific Interaction of TGFβ Signaling Regulators SARA/Endofin with HD-PTP

Gahloth D, Levy C, Walker L, Wunderley L, Mould AP, Taylor S, Woodman P, Tabernero L

(2017) Structure, 25(7):1011-1024.e4

https://www.ncbi.nlm.nih.gov/pubmed/28602823

2017

Cell Biology

Linking functions: an additional role for an intrinsically disordered linker domain in the transcriptional coactivator CBP

Contreras-Martos S, Piai A, Kosol S, Varadi M, Bekesi A, Lebrun P, Volkov AN, Gevaert K, Pierattelli R, Felli IC, Tompa P

(2017) Sci Rep., 7(1):4676

https://www.ncbi.nlm.nih.gov/pubmed/28680062

2017

Microbiology

A Pseudomonas aeruginosa TIR effector mediates immune evasion by targeting UBAP1 and TLR adaptors

Imbert PR, Louche A, Luizet JB, Grandjean T, Bigot S, Wood TE, Gagné S, Blanco A, Wunderley L, Terradot L, Woodman P, Garvis S, Filloux A, Guery B, Salcedo SP

(2017) The EMBO J. 36(13):1869-1887

https://www.ncbi.nlm.nih.gov/pubmed/28483816

2017

Development

Meru couples planar cell polarity with apical-basal polarity during asymmetric cell division

Banerjee JJ, Aerne BL, Holder MV, Hauri S, Gstaiger M, Tapon N

(2017) Elife, 6. pii: e25014

https://www.ncbi.nlm.nih.gov/pubmed/28665270

2017

Cancer Research

Interactions between mitoNEET and NAF-1 in cells

Karmi O, Holt SH, Song L, Tamir S, Luo Y, Bai F, Adenwalla A, Darash-Yahana M, Sohn YS, Jennings PA, Azad RK, Onuchic JN, Morcos F, Nechushtai R, Mittler R

(2017) PLoS One, 12(4):e0175796

https://www.ncbi.nlm.nih.gov/pubmed/28426722

2017

Cell Biology

Binding and inhibition of the ternary complex factor Elk-4/Sap1 by the adapter protein Dok-4

Hooker E, Baldwin C, Roodman V, Batra A, Isa NN, Takano T, Lemay S

(2017) Biochem J. 474(9):1509-1528

https://www.ncbi.nlm.nih.gov/pubmed/28275114

2017

Plant Biology

Coordination of Meristem Doming and the Floral Transition by Late Termination, a Kelch Repeat Protein

Tal L, Friedlander G, Gilboa NS, Unger T, Gilad S, Eshed Y

(2017) Plant Cell., 29(4):681-696

https://www.ncbi.nlm.nih.gov/pubmed/28389586

2017

Immunology

STAT2 is an essential adaptor in USP18-mediated suppression of type I interferon signaling

Arimoto KI, Löchte S, Stoner SA, Burkart C, Zhang Y, Miyauchi S, Wilmes S, Fan JB, Heinisch JJ, Li Z, Yan M, Pellegrini S, Colland F, Piehler J, Zhang DE

(2017) Nat. Struct. Mol. Biol., (24), 279–289

https://www.ncbi.nlm.nih.gov/pubmed/28165510

2017

Virology

Cell Cycle-independent Role of Cyclin D3 in Host Restriction of Influenza Virus Infection

Fan Y, Mok CK, Chan MC, Zhang Y, Nal B, Kien F, Bruzzone R, Sanyal S

(2017) J Biol Chem., 292(12):5070-5088

https://www.ncbi.nlm.nih.gov/pubmed/28130444

2017

Cancer Research

Oncoprotein CIP2A is stabilized via interaction with tumor suppressor PP2A/B56

Wang J, Okkeri J, Pavic K, Wang Z, Kauko O, Halonen T, Sarek G, Ojala PM, Rao Z, Xu W, Westermarck J

(2017) EMBO Rep. (3):437-450

https://www.ncbi.nlm.nih.gov/pubmed/28174209

2017

Cell Biology

Interactome of the inhibitory isoform of the nuclear transporter Importin 13

Fatima S, Wagstaff KM, Lieu KG, Davies RG, Tanaka SS, Yamaguchi YL, Loveland KL, Tam PP, Jans DA

(2017) Biochim Biophys Acta., 1864(3):546-561

https://www.ncbi.nlm.nih.gov/pubmed/27993670

2017

Cell Biology

TRIP13-deficient tubular epithelial cells are susceptible to apoptosis following acute kidney injury

Pressly JD, Hama T, Brien SO, Regner KR, Park F

(2017) Sci Rep., 7, 43196

https://www.ncbi.nlm.nih.gov/pubmed/28256593

2017

Immunology

Armc5 deletion causes developmental defects and compromises T-cell immune responses

Hu Y, Lao L, Mao J, Jin W, Luo H, Charpentier T, Qi S, Peng J, Hu B, Marcinkiewicz MM, Lamarre A, Wu J

(2017) Nat Commun., 8:13834

https://www.ncbi.nlm.nih.gov/pubmed/28169274

2017

Plant Biology

NBP35 interacts with DRE2 in the maturation of cytosolic iron-sulphur proteins in Arabidopsis thaliana

Bastow EL, Bych K, Crack JC, Le Brun NE, Balk J

(2017) Plant J. 89(3):590-600

https://www.ncbi.nlm.nih.gov/pubmed/27801963

2017

Cell Biology

Harnessing molecular motors for nanoscale pulldown in live cells

Bird JE, Barzik M, Drummond MC, Sutton DC, Goodman SM, Morozko EL, Cole SM, Boukhvalova AK, Skidmore J, Syam D, Wilson EA, Fitzgerald T, Rehman AU, Martin DM, Boger ET, Belyantseva IA, Friedman TB

(2017) Mol Biol Cell. 28(3):463-475

https://www.ncbi.nlm.nih.gov/pubmed/27932498

2017

Cell Biology

Rhomboid family member 2 regulates cytoskeletal stress-associated Keratin 16

Maruthappu T, Chikh A, Fell B, Delaney PJ, Brooke MA, Levet C, Moncada-Pazos A, Ishida-Yamamoto A, Blaydon D, Waseem A, Leigh IM, Freeman M, Kelsell DP

(2017) Nat Commun., 8:14174

https://www.ncbi.nlm.nih.gov/pubmed/28128203

2017

Cell Biology

The In Vivo Architecture of the Exocyst Provides Structural Basis for Exocytosis

Picco A, Irastorza-Azcarate I, Specht T, Böke D, Pazos I, Rivier-Cordey AS, Devos DP, Kaksonen M, Gallego O.

(2017) Cell, 168(3):400-412.e18

https://www.ncbi.nlm.nih.gov/pubmed/28129539

2017

Plant Biology

The DC1-domain protein VACUOLELESS GAMETOPHYTES is essential for development of female and male gametophytes in Arabidopsis

D'Ippólito S, Arias LA, Casalongué CA, Pagnussat GC, Fiol DF

(2017) Plant J., 90(2):261-275

https://www.ncbi.nlm.nih.gov/pubmed/28107777

2017

Microbiology

Orientia tsutsugamushi Ank9 is a multifunctional effector that utilizes a novel GRIP-like Golgi localization domain for Golgi-to-endoplasmic reticulum trafficking and interacts with host COPB2

Beyer AR, Rodino KG, VieBrock L, Green RS, Tegels BK, Oliver LD Jr, Marconi RT, Carlyon JA

(2017) Cellular microbiology, 19(7)

https://www.ncbi.nlm.nih.gov/pubmed/28103630

2017

Cell Biology

Targeting of the Fun30 nucleosome remodeller by the Dpb11 scaffold facilitates cell cycle-regulated DNA end resection

Bantele SC, Ferreira P, Gritenaite D, Boos D, Pfander B

(2017) Elife, 6. pii: e21687

https://www.ncbi.nlm.nih.gov/pubmed/28063255

2017

Cell Biology

Endospanin1 affects oppositely body weight regulation and glucose homeostasis by differentially regulating central leptin signaling

Vauthier V, Roujeau C, Chen P, Sarkis C, Migrenne S, Hosoi T, Ozawa K, Rouillé Y, Foretz M, Mallet J, Launay JM, Magnan C, Jockers R, Dam J

(2017) Mol Metab., 6(1):159-172

https://www.ncbi.nlm.nih.gov/pubmed/28123946

2017

Immunology

Tartrate-Resistant Acid Phosphatase Deficiency in the Predisposition to Systemic Lupus Erythematosus

An J, Briggs TA, Dumax-Vorzet A, Alarcón-Riquelme ME, Belot A, Beresford M, Bruce IN, Carvalho C, Chaperot L, Frostegård J, Plumas J, Rice GI, Vyse TJ, Wiedeman A, Crow YJ, Elkon KB

(2017) Arthritis Rheumatol. 69(1):131-142

https://www.ncbi.nlm.nih.gov/pubmed/27390188

2017

Plant Biology

Plant-specific 4/1 polypeptide interacts with an endoplasmic reticulum protein related to human BAP31

Pankratenko AV, Atabekova AK, Lazareva EA, Baksheeva VE, Zhironkina OA, Zernii EY, Owens RA, Solovyev AG, Morozov SY

(2017) Planta., 245(1):193-205

https://www.ncbi.nlm.nih.gov/pubmed/27714454

2016

Cancer Research

Wnt Signaling Promotes Breast Cancer by Blocking ITCH-Mediated Degradation of YAP/TAZ Transcriptional Coactivator WBP2

Lim SK, Lu SY, Kang SA, Tan HJ, Li Z, Adrian Wee ZN, Guan JS, Reddy Chichili VP, Sivaraman J, Putti T, Thike AA, Tan PH, Sudol M, Virshup DM, Chan SW, Hong W, Lim YP

(2016) Cancer research, 76(21):6278-6289

https://www.ncbi.nlm.nih.gov/pubmed/27578003

2016

Cell Biology

(hors ligne car publi de Valérie) Bidirectional Allosteric Communication between the ATP-Binding Site and the Regulatory PIF Pocket in PDK1 Protein Kinase

Schulze JO, Saladino G, Busschots K, Neimanis S, Süß E, Odadzic D, Zeuzem S, Hindie V, Herbrand AK, Lisa MN, Alzari PM, Gervasio FL, Biondi RM

(2016) Cell Chem Biol. 23(10):1193-1205

https://www.ncbi.nlm.nih.gov/pubmed/27693059

2016

Neuroscience

MPP2 is a postsynaptic MAGUK scaffold protein that links SynCAM1 cell adhesion molecules to core components of the postsynaptic density

Rademacher N, Schmerl B, Lardong JA, Wahl MC, Shoichet SA

(2016) Sci Rep., 6:35283

https://www.ncbi.nlm.nih.gov/pubmed/27756895

2016

Plant Biology

Regulation of MIR165/166 by class II and class III homeodomain leucine zipper proteins establishes leaf polarity

Merelo P, Ram H, Pia Caggiano M, Ohno C, Ott F, Straub D, Graeff M, Cho SK, Yang SW, Wenkel S, Heisler MG

(2016) Proc Natl Acad Sci U S A, 113(42):11973-11978

https://www.ncbi.nlm.nih.gov/pubmed/27698117

2016

Microbiology

The DUF582 Proteins of Chlamydia trachomatis Bind to Components of the ESCRT Machinery, Which Is Dispensable for Bacterial Growth In vitro

Vromman F, Perrinet S, Gehre L, Subtil A

(2016) Front Cell Infect Microbiol., 6:123

https://www.ncbi.nlm.nih.gov/pubmed/27774439

2016

Cell Biology

Direct interaction between exocyst and Wave complexes promotes cell protrusions and motility

Biondini M, Sadou-Dubourgnoux A, Paul-Gilloteaux P, Zago G, Arslanhan MD, Waharte F, Formstecher E, Hertzog M, Yu J, Guerois R, Gautreau A, Scita G, Camonis J, Parrini MC

(2016) J Cell Sci. 129(20):3756-3769

https://www.ncbi.nlm.nih.gov/pubmed/27591259

2016

Plant Biology

Control of inflorescence architecture in tomato by BTB/POZ transcriptional regulators

Xu C, Park SJ, Van Eck J, Lippman ZB

(2016) Genes Dev., 30(18):2048-2061

https://www.ncbi.nlm.nih.gov/pubmed/27798848

2016

Cell Biology

DPP9 is a novel component of the N-end rule pathway targeting the tyrosine kinase Syk

Justa-Schuch, D., Silva-Garcia, M., Pilla, E., Engelke, M., Kilisch, M., Lenz, C., Mцller, U., Nakamura, F., Urlaub, H. and Geiss-Friedlander, R.

(2016) Elife, (5) doi: 10.7554/eLife.16370

https://www.ncbi.nlm.nih.gov/pubmed/27614019

2016

Cell Biology

The BTG4 and CAF1 complex prevents the spontaneous activation of eggs by deadenylating maternal mRNAs

Pasternak, M., Pfender, S., Santhanam, B. and Schuh, M.

Open Biol. (9) doi: 10.1098/rsob.160184

https://www.ncbi.nlm.nih.gov/pubmed/27605379

2016

Cell Biology

Disruption of the Phosphate Transporter Pit1 in Hepatocytes Improves Glucose Metabolism and Insulin Signaling by Modulating the USP7/IRS1 Interaction

Forand A, Koumakis E, Rousseau A, Sassier Y3, Journe C, Merlin JF, Leroy C, Boitez V, Codogno P, Friedlander G, Cohen I

(2016) Cell Rep. 16(10):2736-48

https://www.ncbi.nlm.nih.gov/pubmed/27568561

2016

Cell Biology

Ctf4 Is a Hub in the Eukaryotic Replisome that Links Multiple CIP-Box Proteins to the CMG Helicase

Villa F, Simon AC, Ortiz Bazan MA, Kilkenny ML, Wirthensohn D, Wightman M, Matak-Vinkovíc D, Pellegrini L, Labib K

(2016) Mol Cell., 63(3):385-96

http://www.ncbi.nlm.nih.gov/pubmed/27397685

2016

Cell Biology

Wars2 is a determinant of angiogenesis

Wang M, Sips P, Khin E, Rotival M, Sun X, Ahmed R, Widjaja AA, Schafer S, Yusoff P, Choksi PK, Ko NS, Singh MK, Epstein D, Guan Y, Houštěk J, Mracek T, Nuskova H, Mikell B, Tan J, Pesce F, Kolar Z, Bottolo L, Mancini M, Hubner N, Pravenec M, Petretto E, MacRae C, Cook SA

(2016) Nat Commun.,7:12061

http://www.ncbi.nlm.nih.gov/pubmed/27389904

2016

Cell Biology

FAM222B Is Not a Likely Novel Candidate Gene for Cerebral Cavernous Malformations

Spiegler S, Kirchmaier B, Rath M, Korenke GC, Tetzlaff F, van de Vorst M, Neveling K, Acker-Palmer A, Kuss AW, Gilissen C, Fischer A, Schulte-Merker S, Felbor U

(2016) Mol Syndromol., 7(3):144-52

https://www.ncbi.nlm.nih.gov/pubmed/27587990

2016

Cell Biology

The Poly(ADP-ribose) Polymerase Enzyme Tankyrase Antagonizes Activity of the β-Catenin Destruction Complex through ADP-ribosylation of Axin and APC2

Croy HE, Fuller CN, Giannotti J, Robinson P, Foley AV, Yamulla RJ, Cosgriff S, Greaves BD, von Kleeck RA, An HH, Powers CM, Tran JK, Tocker AM, Jacob KD, Davis BK, Roberts DM

(2016) J Biol Chem. 291(24):12747-60

https://www.ncbi.nlm.nih.gov/pubmed/27068743

2016

Virology

Definition of the cellular interactome of the highly pathogenic avian influenza H5N1 virus: identification of human cellular regulators of viral entry, assembly, and egress

Kien F, Ma HL, Bruzzone R, Poon LL, Nal B

(2016) Hong Kong Med J. 22(3 Suppl 4):10-2

https://www.ncbi.nlm.nih.gov/pubmed/27390003

2016

Plant Biology

[hors ligne car on a pas fait les manips] Golgi-localized STELLO proteins regulate the assembly and trafficking of cellulose synthase complexes in Arabidopsis

Zhang Y, Nikolovski N, Sorieul M, Vellosillo T, McFarlane HE, Dupree R, Kesten C, Schneider R, Driemeier C, Lathe R, Lampugnani E, Yu X, Ivakov A, Doblin MS, Mortimer JC, Brown SP, Persson S, Dupree P

(2016) Nat Commun., 7: 11656

https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4906169/

2016

Cancer Research

Setdb1, a novel interactor of? Np63, is involved in breast tumorigenesis

Regina C, Compagnone M, Peschiaroli A, Lena A1, Annicchiarico-Petruzzelli M, Piro MC, Melino G, Candi E

(2016) Oncotarget, (7), 28836–28848

https://www.ncbi.nlm.nih.gov/pubmed/26840455

2016

Microbiology

Staphylococcal Enterotoxin O Exhibits Cell Cycle Modulating Activity

Elisabeth Hodille, Ludmila Alekseeva, Nadia Berkova, Asma Serrier, Cedric Badiou, Benoit Gilquin, Virginie Brun, François Vandenesch, David S. Terman, Gerard Lina

(2016) Front Microbiol., 7: 441

http://www.ncbi.nlm.nih.gov/pmc/articles/PMC4832122/

2016

Cell Biology

Rab35 GTPase couples cell division with initiation of epithelial apico-basal polarity and lumen opening

Klinkert K, Rocancourt M, Houdusse A, Echard A

(2016) Nat Commun., 7:11166

http://www.ncbi.nlm.nih.gov/pubmed/27040773

2016

Cell Biology

PLEKHA7 recruits PDZD11 to adherens junctions to stabilize nectins

Guerrera D, Shah J, Vasileva E, Sluysmans S, Mean I, Jond L, Poser I, Mann M, Hyman AA, Citi S.

(2016)J Biol Chem., 291(21):11016-29

http://www.ncbi.nlm.nih.gov/pubmed/27044745

2016

Neuroscience

Nuclear Localization of the Autism Candidate Gene Neurobeachin and Functional Interaction with the NOTCH1 Intracellular Domain Indicate a Role in Regulating Transcription

Tuand K, Stijnen P, Volders K, Declercq J, Nuytens K, Meulemans S, Creemers J

(2016) PLoS One, 11(3):e0151954

http://www.ncbi.nlm.nih.gov/pubmed/26999814

2016

Cell Biology

Identification of new FGF1 binding partners-Implications for its intracellular function

Bober J, Olsnes S, Kostas M, Bogacz M, Zakrzewska M, Otlewski J

(2016) IUBMB Life, 68(3):242-51

http://www.ncbi.nlm.nih.gov/pubmed/26840910

2016

Cancer Research

NECAB3 Promotes Activation of Hypoxia-inducible factor-1 during Normoxia and Enhances Tumourigenicity of Cancer Cells

Nakaoka HJ, Hara T, Yoshino S, Kanamori A, Matsui Y, Shimamura T, Sato H, Murakami Y, Seiki M, Sakamoto T

(2016) Sci Rep., 6:22784

http://www.ncbi.nlm.nih.gov/pubmed/26948053

2016

Microbiology

The interaction between Staphylococcus aureus SdrD and desmoglein 1 is important for adhesion to host cells

Askarian F, Ajayi C, Hanssen AM, van Sorge NM, Pettersen I, Diep DB, Sollid JU, Johannessen M

(2016) Sci Rep., 6:22134

http://www.ncbi.nlm.nih.gov/pubmed/26924733

2016

Cell Biology

BTG2 bridges PABPC1 RNA-binding domains and CAF1 deadenylase to control cell proliferation

Stupfler B, Birck C, Séraphin B, Mauxion F

(2016) Nat Commun., 7:10811

http://www.ncbi.nlm.nih.gov/pubmed/26912148

2016

Neuroscience

CDKL5 and Shootin1 Interact and Concur in Regulating Neuronal Polarization

Nawaz MS, Giarda E, Bedogni F, La Montanara P, Ricciardi S, Ciceri D, Alberio T, Landsberger N, Rusconi L, Kilstrup-Nielsen C

(2016) PLoS One, 11(2):e0148634

http://www.ncbi.nlm.nih.gov/pubmed/26849555

2016

Cell Biology

Tankyrases Promote Homologous Recombination and Check Point Activation in Response to DSBs

Nagy Z, Kalousi A, Furst A, Koch M, Fischer B, Soutoglou E

(2016) PLoS Genet. 12(2):e1005791

https://www.ncbi.nlm.nih.gov/pubmed/26845027

2016

Plant Biology

PP2A-3 interacts with ACR4 and regulates formative cell division in the Arabidopsis root

Yue K, Sandal P, Williams EL, Murphy E, Stes E, Nikonorova N, Ramakrishna P, Czyzewicz N, Montero-Morales L, Kumpf R, Lin Z, van de Cotte B, Iqbal M, Van Bel M, Van De Slijke E, Meyer MR, Gadeyne A, Zipfel C, De Jaeger G, Van Montagu M, Van Damme D, Gevaert K, Rao AG, Beeckman T, De Smet I

(2016) Proc Natl Acad Sci U S A, 113(5):1447-52

https://www.ncbi.nlm.nih.gov/pubmed/26792519

2016

Neuroscience

Post-translational Control of the Temporal Dynamics of Transcription Factor Activity Regulates Neurogenesis

Quan XJ, Yuan L, Tiberi L, Claeys A, De Geest N, Yan J, van der Kant R, Xie WR, Klisch TJ, Shymkowitz J, Rousseau F, Bollen M, Beullens M, Zoghbi HY, Vanderhaeghen P, Hassan BA

(2016) Cell. 164(3):460-75

https://www.ncbi.nlm.nih.gov/pubmed/26824657

2016

Cell Biology

Transcription factors LRF and BCL11A independently repress expression of fetal hemoglobin

Masuda T, Wang X, Maeda M, Canver MC, Sher F, Funnell AP, Fisher C, Suciu M, Martyn GE, Norton LJ, Zhu C, Kurita R, Nakamura Y, Xu J, Higgs DR, Crossley M, Bauer DE, Orkin SH, Kharchenko PV, Maeda T

(2016) Science, 351(6270):285-9

https://www.ncbi.nlm.nih.gov/pubmed/26816381

2016

Neuroscience

Protein interactome mining defines melatonin MT1 receptors as integral component of presynaptic protein complexes of neurons

Benleulmi-Chaachoua A, Chen L, Sokolina K, Wong V, Jurisica I, Emerit MB, Darmon M, Espin A, Stagljar I, Tafelmeyer P, Zamponi GW, Delagrange P, Maurice P, Jockers R

(2016) J Pineal Res. 60(1):95-108

https://www.ncbi.nlm.nih.gov/pubmed/26514267

2016

Cell Biology

A novel family of katanin-like 2 protein isoforms (KATNAL2), interacting with nucleotide-binding proteins Nubp1 and Nubp2, are key regulators of different MT-based processes in mammalian cells

Ververis A, Christodoulou A, Christoforou M, Kamilari C, Lederer CW, Santama N

(2016) Cell Mol Life Sci., 73(1):163-84

https://www.ncbi.nlm.nih.gov/pubmed/26153462

2015

Cell Biology

Spatial control of Shoc2-scaffold-mediated ERK1/2 signaling requires remodeling activity of the ATPase PSMC5

Jang ER, Jang H, Shi P, Popa G, Jeoung M, Galperin E

(2015) J Cell Sci. 128(23):4428-41

https://www.ncbi.nlm.nih.gov/pubmed/26519477

2015

Plant Biology

TaFROG Encodes a Pooideae Orphan Protein That Interacts with SnRK1 and Enhances Resistance to the Mycotoxigenic Fungus Fusarium graminearum

Perochon A, Jianguang J, Kahla A, Arunachalam C, Scofield SR, Bowden S, Wallington E, Doohan FM

(2015) Plant Physiol., 169(4):2895-906

https://www.ncbi.nlm.nih.gov/pubmed/26508775

2015

Plant Biology

Regulation of Carotenoid Biosynthesis by Shade Relies on Specific Subsets of Antagonistic Transcription Factors and Cofactors

Bou-Torrent J, Toledo-Ortiz G, Ortiz-Alcaide M, Cifuentes-Esquivel N, Halliday KJ, Martinez-García JF, Rodriguez-Concepcion M

(2015) Plant Physiol. 169(3):1584-94

https://www.ncbi.nlm.nih.gov/pubmed/26082398

2015

Cell Biology

Role of the Exocyst Complex Component Sec6/8 in Genomic Stability

Torres MJ, Pandita RK, Kulak O, Kumar R, Formstecher E, Horikoshi N, Mujoo K, Hunt CR, Zhao Y, Lum L, Zaman A, Yeaman C, White MA, Pandita TK

(2015) Mol. Cell Biol., 35(21):3633-45

https://www.ncbi.nlm.nih.gov/pubmed/26283729

2015

Cell Biology

Unresolved questions in human copper pump mechanisms

Wittung-Stafshede P

(2015) Q Rev Biophys., 48(4):471-8

https://www.ncbi.nlm.nih.gov/pubmed/26537407

2015

Development

The Brakeless co-regulator can directly activate and repress transcription in early Drosophila embryos

Crona F, Holmqvist PH, Tang M, Singla B, Vakifahmetoglu-Norberg H, Fantur K, Mannervik M

Dev Biol. 2015 Nov 1;407(1):173-81

https://www.ncbi.nlm.nih.gov/pubmed/26260775

2015

Cell Biology

Cystatin D Locates in the Nucleus at Sites of Active Transcription and Modulates Gene and Protein Expression

Ferrer-Mayorga G, Alvarez-Díaz S, Valle N, De Las Rivas J, Mendes M, Barderas R, Canals F, Tapia O, Casal JI, Lafarga M, Muñoz A

(2015) J Biol Chem., 290(44):26533-48

https://www.ncbi.nlm.nih.gov/pubmed/26364852

2015

Development

Amphiphysin 2 Orchestrates Nucleus Positioning and Shape by Linking the Nuclear Envelope to the Actin and Microtubule Cytoskeleton

D'Alessandro M, Hnia K, Gache V, Koch C, Gavriilidis C, Rodriguez D, Nicot AS, Romero NB, Schwab Y, Gomes E, Labouesse M, Laporte J

(2015) Dev Cell. 35(2):186-98

https://www.ncbi.nlm.nih.gov/pubmed/26506308

2015

Plant Biology

Universal stress protein HRU1 mediates ROS homeostasis under anoxia

Gonzali S, Loreti E, Cardarelli F, Novi G, Parlanti S, Pucciariello C, Bassolino L, Banti V, Licausi F, Perata P

(2015) Nat Plants., 1:15151. doi: 10.1038

https://www.ncbi.nlm.nih.gov/pubmed/27251529

2015

Cell Biology

The Pro-apoptotic STK38 Kinase Is a New Beclin1 Partner Positively Regulating Autophagy

Joffre C, Dupont N, Hoa L, Gomez V, Pardo R, Gonçalves-Pimentel C, Achard P, Bettoun A, Meunier B, Bauvy C, Cascone I, Codogno P, Fanto M, Hergovich A, Camonis J

(2015) Curr Biol., 25(19):2479-2492

http://www.ncbi.nlm.nih.gov/pubmed/26387716

2015

Cell Biology

Mammalian splicing factor SF1 interacts with SURP domains of U2 snRNP-associated proteins

Crisci A, Raleff F, Bagdiul I, Raabe M, Urlaub H, Rain JC, Krämer A

(2015) Nucleic Acids Res., 43(21):10456-73

http://www.ncbi.nlm.nih.gov/pubmed/26420826

2015

Cancer Research

Nuclear cathepsin D enhances TRPS1 transcriptional repressor function to regulate cell cycle progression and transformation in human breast cancer cells

Bach AS, Derocq D, Laurent-Matha V, Montcourrier P, Sebti S, Orsetti B, Theillet C, Gongora C, Pattingre S, Ibing E, Roger P, Linares LK, Reinheckel T, Meurice G, Kaiser FJ, Gespach C, Liaudet-Coopman E

(2015) Oncotarget, 6(29):28084-103

http://www.ncbi.nlm.nih.gov/pubmed/26183398

2015

Neuroscience

The Q-Soluble-N-Ethylmaleimide-Sensitive Factor Attachment Protein Receptor (Q-SNARE) SNAP-47 Regulates Trafficking of Selected Vesicle-Associated Membrane Proteins (VAMPs)

Kuster A, Nola S, Dingli F, Vacca B, Gauchy C, Beaujouan JC, Nunez M, Moncion T, Loew D, Formstecher E, Galli T, Proux-Gillardeaux V

(2015) J Biol Chem., 290(47):28056-69

http://www.ncbi.nlm.nih.gov/pubmed/26359495

2015

Cell Biology

MVP-Associated Filamin A Mutations Affect FlnA-PTPN12 (PTP-PEST) Interactions

Duval D, Labbé P, Bureau L, Le Tourneau T, Norris RA, Markwald RR, Levine R, Schott JJ, Mérot J

(2015) J Cardiovasc Dev Dis. 2(3):233-247

https://www.ncbi.nlm.nih.gov/pubmed/26594644

2015

Development

Amotl2a interacts with the Hippo effector Yap1 and the Wnt/β-catenin effector Lef1 to control tissue size in zebrafish

Agarwala S, Duquesne S, Liu K, Boehm A, Grimm L, Link S, König S, Eimer S, Ronneberger O, Lecaudey V

(2015) Elife, 4:e08201

https://www.ncbi.nlm.nih.gov/pubmed/26335201

2015

Cancer Research

AF1q is a novel TCF7 co-factor which activates CD44 and promotes breast cancer metastasis

Park J Schlederer M, Schreiber M, Ice R, Merkel O, Bilban M, Hofbauer S, Kim S, Addison J, Zou J, Ji C, Bunting ST, Wang Z, Shoham M, Huang G, Bago-Horvath Z, Gibson LF, Rojanasakul Y, Remick S, Ivanov A, Pugacheva E, Bunting KD, Moriggl R, Kenner L, Tse WPark J, Schlederer M, Schreiber M, Ice R, Merkel O, Bilban M, Hofbauer S, Kim S, Addison J, Zou J, Ji C, Bunting ST, Wang Z, Shoham M, Huang G, Bago-Horvath Z, Gibson LF, Rojanasakul Y, Remick S, Ivanov A, Pugacheva E, Bunting KD, Moriggl R, Kenner L, Tse W

(2015) Oncotarget, 6(24):20697-710

https://www.ncbi.nlm.nih.gov/pubmed/26079538

2015

Cell Biology

A potential link between insulin signaling and GLUT4 translocation: Association of Rab10-GTP with the exocyst subunit Exoc6/6b

Sano H, Peck GR, Blachon S, Lienhard GE

(2015) Biochem Biophys Res Commun., 465(3):601-5

http://www.ncbi.nlm.nih.gov/pubmed/26299925

2015

Neuroscience

A high affinity RIM-binding protein/Aplip1 interaction prevents the formation of ectopic axonal active zones

Siebert M, Böhme MA, Driller JH, Babikir H, Mampell MM, Rey U, Ramesh N, Matkovic T, Holton N, Reddy-Alla S, Göttfert F, Kamin D, Quentin C, Klinedinst S, Andlauer TF, Hell SW, Collins CA, Wahl MC, Loll B, Sigrist SJ

(2015) Elife, (4)

https://www.ncbi.nlm.nih.gov/pubmed/26274777

2015

Cell Biology

Identification of New Potential Interaction Partners for Human Cytoplasmic Copper Chaperone Atox1: Roles in Gene Regulation?

Öhrvik H, Wittung-Stafshede P

(2015) Int J Mol Sci., 16(8):16728-39

http://www.ncbi.nlm.nih.gov/pubmed/26213915

2015

Neuroscience

Ctr9, a Protein in the Transcription Complex Paf1, Regulates Dopamine Transporter Activity at the Plasma Membrane

De Gois S, Slama P, Pietrancosta N, Erdozain AM, Louis F, Bouvrais-Veret C, Daviet L, Giros B

(2015) J Biol Chem., 290(29):17848-62

http://www.ncbi.nlm.nih.gov/pubmed/26048990

2015

Cancer Research

Mitogen-activated protein kinase-activated protein kinase 2 mediates resistance to Hydrogen peroxide-induced oxidative stress in Human hepatobiliary Cancer cells

Ho-Bouldoires TH, Clapéron A, Mergey M, Wendum D, Desbois-Mouthon C, Tahraoui S, Fartoux L, Chettouh H, Merabtene F, Scatton O, Gaestel M, Praz F, Housset C, Fouassier L

(2015) Free Radic Biol Med., 89:34-46

http://www.ncbi.nlm.nih.gov/pubmed/26169728

2015

Cell Biology

Loss of apoptosis-inducing factor critically affects MIA40 function

Meyer K, Buettner S, Ghezzi D, Zeviani M, Bano D, Nicotera P

(2015) Cell Death Dis., 6:e1814

http://www.ncbi.nlm.nih.gov/pubmed/26158520

2015

Cell Biology

HECT E3 Ubiquitin Ligase Itch Functions as a Novel Negative Regulator of Gli-Similar 3 (Glis3) Transcriptional Activity

ZeRuth GT, Williams JG, Cole YC, Jetten AM

(2015) PLoS One, 10(7):e0131303

http://www.ncbi.nlm.nih.gov/pubmed/26147758

2015

Plant Biology

The Interactome of Soybean GmWRKY53 using Yeast 2-Hybrid Library Screening to Saturation

Tripathi P, Rabara RC, Choudhary MK, Miller MA, Huang YS, Shen QJ, Rushton PJ

(2015) Plant Signal. Behav., 10(7):e1028705

http://www.ncbi.nlm.nih.gov/pubmed/26102586

2015

Plant Biology

Arabidopsis KCBP interacts with AIR9 but stays in the cortical division zone throughout mitosis via its MyTH4-FERM domain

Buschmann H, Dols J, Kopischke S, Peña EJ, Andrade-Navarro MA, Heinlein M, Szymanski DB, Zachgo S, Doonan JH, Lloyd CW

(2015) J Cell Sci. 128(11):2033-46

https://www.ncbi.nlm.nih.gov/pubmed/25908862

2015

Cell Biology

Cyclin C interacts with steroid receptor coactivator 2 and upregulates cell cycle genes in MCF-7 cells

Bozickovic O, Hoang T, Fenne IS, Helland T, Skartveit L, Ouchida M, Mellgren G, Sagen JV

(2015) Biochim Biophys Acta., 1853(10 Pt A):2383-91

http://www.ncbi.nlm.nih.gov/pubmed/25986860

2015

Cell Biology

Alpha-catenin-dependent recruitment of the centrosomal protein CAP350 to adherens junctions allows epithelial cells to acquire a columnar shape

Gavilan MP, Arjona M, Zurbano A, Formstecher E, Martinez-Morales JR, Bornens M, Rios RM

(2015) PLoS Biol.,13, (3), e1002087

http://www.ncbi.nlm.nih.gov/pubmed/25764135

2015

Cell Biology

Interaction with WDR5 Promotes Target Gene Recognition and Tumorigenesis by MYC

Thomas LR, Wang Q, Grieb BC, Phan J, Foshage AM, Sun Q, Olejniczak ET, Clark T, Dey S, Lorey S, Alicie B, Howard GC, Cawthon B, Ess KC, Eischen CM, Zhao Z, Fesik SW, Tansey WP

(2015) Mol. Cell, 58, (3), 440-52

http://www.ncbi.nlm.nih.gov/pubmed/25818646

2015

Microbiology

The membrane protein PrsS mimics sigmaS in protecting Staphylococcus aureus against cell wall-targeting antibiotics and DNA-damaging agents

Krute CN, Bell-Temin H, Miller HK, Rivera FE, Weiss A, Stevens SM, Shaw LN

(2015) Microbiology, (161) 1136–1148

http://www.ncbi.nlm.nih.gov/pubmed/25741016

2015

Cell Biology

DNA damage-induced nuclear translocation of Apaf-1 is mediated by nucleoporin Nup107

Jagot-Lacoussiere L, Faye A, Bruzzoni-Giovanelli H, Villoutreix BO, Rain JC, Poyet JL

(2015) Cell Cycle. 14(8):1242-51

https://www.ncbi.nlm.nih.gov/pubmed/25695197

2015

Cancer Research

TGIF governs a feed-forward network that empowers Wnt signaling to drive mammary tumorigenesis

Zhang MZ, Ferrigno O, Wang Z, Ohnishi M, Prunier C, Levy L, Razzaque M, Horne WC, Romero D, Tzivion G, Colland F, Baron R, Atfi A

(2015) Cancer Cell, 27(4):547-60

http://www.ncbi.nlm.nih.gov/pubmed/%2025873176

2015

Cell Biology

Rio1 promotes rDNA stability and downregulates RNA polymerase I to ensure rDNA segregation

Iacovella MG, Golfieri C, Massari LF, Busnelli S, Pagliuca C, Dal Maschio M, Infantino V, Visintin R, Mechtler K, Ferreira-Cerca S, De Wulf P

(2015)Nat Commun., (6), 6643

http://www.ncbi.nlm.nih.gov/pubmed/25851096

2015

Plant Biology

Time-dependent sequestration of RVE8 by LNK proteins shapes the diurnal oscillation of anthocyanin biosynthesis

Pérez-García P, Ma Y, Yanovsky MJ, Mas P

(2015) Proc Natl Acad Sci USA. 112(16):5249-53

http://www.ncbi.nlm.nih.gov/pubmed/25848001

2015

Cell Biology

Interactome of the negative regulator of nuclear import BRCA1-binding protein 2

Fatima S, Wagstaff KM, Loveland KL, Jans DA

(2015) Sci Rep., 5:9459

https://www.ncbi.nlm.nih.gov/pubmed/25820252

2015

Cell Biology

The Fun30 chromatin remodeler Fft3 controls nuclear organization and chromatin structure of insulators and subtelomeres in fission yeast

Steglich B, Strålfors A, Khorosjutina O, Persson J, Smialowska A, Javerzat JP, Ekwall K

(2015) PLoS Genet., (11), e1005101

http://www.ncbi.nlm.nih.gov/pubmed/25798942

2015

Development

Drosophila MAGI interacts with RASSF8 to regulate E-Cadherin-based adherens junctions in the developing eye

Zaessinger S, Zhou Y, Bray SJ, Tapon N, Djiane A

(2015) Development, 142(6):1102-12

http://www.ncbi.nlm.nih.gov/pubmed/25725070

2015

Cancer Research

The Tumor Suppressor WWOX and HDAC3 Inhibit the Transcriptional Activity of the Beta-catenin Coactivator BCL9-2 in Breast Cancer Cells

El-Hage P, Petitalot A, Monsoro-Burq AH, Maczkowiak F, Driouch K, Formstecher E, Camonis J, Sabbah M, Bieche I, Lidereau R, Lallemand F

(2015) Mol Cancer Res.,13(5):902-12

http://www.ncbi.nlm.nih.gov/pubmed/25678599

2015

Cell Biology

Spectrin binding motifs regulate Scribble cortical dynamics and polarity function

Boëda B, Etienne-Manneville S

(2015) Elife, 4. doi: 10.7554/eLife.04726

http://www.ncbi.nlm.nih.gov/pubmed/25664942

2015

Neuroscience

Linking Cell Surface Receptors to Microtubules: Tubulin Folding Cofactor D Mediates Dscam Functions during Neuronal Morphogenesis

Okumura M, Sakuma C, Miura M, Chihara T

(2015) J Neurosci., 35(5):1979-90

http://www.ncbi.nlm.nih.gov/pubmed/25653356

2015

Cell Biology

Supervillin binds the Rac/Rho-GEF trio and increases trio-mediated rac1 activation

Son K, Smith TC, Luna EJ

(2015) Cytoskeleton (Hoboken), 72(1):47-64

http://www.ncbi.nlm.nih.gov/pubmed/25655724

2015

Neuroscience

Control of neuronal apoptosis by reciprocal regulation of NFATc3 and Trim17

Mojsa B, Mora S, Bossowski JP, Lassot I, Desagher S

(2015) Cell Death Differ., 22(2):274-86

https://www.ncbi.nlm.nih.gov/pubmed/25215946

2015

Neuroscience

Oligodendroglial maturation is dependent on intracellular protein shuttling

Göttle P, Sabo JK, Heinen A, Venables G, Torres K, Tzekova N, Parras CM, Kremer D, Hartung HP, Cate HS, Küry P

(2015) J Neurosci., 35(3):906-19

http://www.ncbi.nlm.nih.gov/pubmed/25609610

2015

Cell Biology

Gamma-sarcoglycan is required for the response of archvillin to mechanical stimulation in skeletal muscle

Spinazzola JM, Smith TC, Liu M, Luna EJ, Barton ER

(2015) Hum. Mol. Genet., 24(9):2470-81

http://www.ncbi.nlm.nih.gov/pubmed/25605665

2015

Virology

The integrase cofactor LEDGF/p75 associates with Iws1 and Spt6 for postintegration silencing of HIV-1 gene expression in latently infected cells

Gérard A, Ségéral E, Naughtin M, Abdouni A, Charmeteau B, Cheynier R, Rain JC, Emiliani S

(2015) Cell Host Microbe, (17), 107–117

http://www.ncbi.nlm.nih.gov/pubmed/25590759

2015

Plant Biology

Arabidopsis AIP1-2 restricted by WER-mediated patterning modulates planar polarity

Kiefer CS, Claes AR, Nzayisenga JC, Pietra S, Stanislas T, Hüser A, Ikeda Y, Grebe M

(2015) Development 142(1):151-61

https://www.ncbi.nlm.nih.gov/pubmed/25428588

2014

Parasitology

SUMOylation by the E3 ligase TbSIZ1/PIAS1 positively regulates VSG expression in Trypanosoma brucei

López-Farfán D, Bart JM, Rojas-Barros DI, Navarro M

(2014) PLoS Pathog. 10(12):e1004545

https://www.ncbi.nlm.nih.gov/pubmed/25474309

2014

Cell Biology

The eukaryotic elongation factor eEF1A1 interacts with SAMHD1

Morrissey C, Schwefel D, Ennis-Adeniran A, CV, Taylor Irow YJ, Webb M.

(2014) Biochem. J., 466(1):69-76

http://www.ncbi.nlm.nih.gov/pubmed/25423367

2014

Plant Biology

Association of the P6 protein of Cauliflower mosaic virus with plasmodesmata and plasmodesmal proteins

Rodriguez A, Angel CA, Lutz L, Leisner SM, Nelson RS, Schoelz JE

(2014) Plant Physiol., 166(3):1345-58

https://www.ncbi.nlm.nih.gov/pubmed/25239023

2014

Development

Drosophila Strip serves as a platform for early endosome organization during axon elongation

Sakuma C, Kawauchi T, Haraguchi S, Shikanai M, Yamaguchi Y, Gelfand VI, Luo L, Miura M, Chihara T

(2014) Nat. Commun., 5:5180

https://www.ncbi.nlm.nih.gov/pubmed/25312435

2014

Cancer Research

RSK2 regulates endocytosis of FGF receptor 1 by phosphorylation on serine 789

Nadratowska-Wesolowska B, Haugsten EM, Zakrzewska M, Jakimowicz P, Zhen Y1, Pajdzik D, Wesche J, Wiedlocha A

(2014) Oncogene, 33(40):4823-36

https://www.ncbi.nlm.nih.gov/pubmed/24141780

2014

Cell Biology

HUWE1 is a molecular link controlling RAF-1 activity supported by the Shoc2 scaffold

Jang ER, Shi P, Bryant J, Chen J, Dukhande V, Gentry MS, Jang H, Jeoung M, Galperin E

(2014) Mol. Cell Biol., 34(19):3579-93

http://www.ncbi.nlm.nih.gov/pubmed/25022756

2014

Development

Heterotrimeric Go protein links Wnt-Frizzled signaling with ankyrins to regulate the neuronal microtubule cytoskeleton

Lüchtenborg AM, Solis GP, Egger-Adam D, Koval A, Lin C, Blanchard MG, Kellenberger S, Katanaev VL

(2014) Development, 141(17):3399-409

http://www.ncbi.nlm.nih.gov/pubmed/25139856

2014

Plant Biology

PIRIN2 stabilizes cysteine protease XCP2 and increases susceptibility to the vascular pathogen Ralstonia solanacearum in Arabidopsis

Zhang B, Tremousaygue D, Denancé N, van Esse HP, Hörger AC, Dabos P, Goffner D, Thomma BP, van der Hoorn RA, Tuominen H

(2014) Plant J., 79(6):1009-1019

http://www.ncbi.nlm.nih.gov/pubmed/24947605

2014

Cell Biology

DIPA-family coiled-coils bind conserved isoform-specific head domain of p120-catenin family: potential roles in hydrocephalus and heterotopia

Markham NO, Doll CA, Dohn MR, Miller RK, Yu H, Coffey RJ, McCrea PD, Gamse JT, Reynolds AB

(2014) Mol. Biol. Cell, 25(17):2592-603

https://www.ncbi.nlm.nih.gov/pubmed/25009281

2014

Plant Biology

Functional characterisation of Arabidopsis SPL7 conserved protein domains suggests novel regulatory mechanisms in the Cu deficiency response

Garcia-Molina A, Xing S, Huijser P

(2014) BMC Plant Biol., 14:231

https://www.ncbi.nlm.nih.gov/pubmed/25207797

2014

Cell Biology

The RING ubiquitin E3 RNF114 interacts with A20 and modulates NF-κB activity and T-cell activation

Rodriguez MS, Egaña I, Lopitz-Otsoa F, Aillet F, Lopez-Mato MP, Dorronsoro A, Lobato-Gil S, Sutherland JD, Barrio R, Trigueros C, Lang V

(2014) Cell Death Dis., 5:e1399

https://www.ncbi.nlm.nih.gov/pubmed/25165885

2014

Cell Biology

Remodeling of the Intestinal Brush Border Underlies Adhesion and Virulence of an Enteric Pathogen

Zhou X, Massol RH, Nakamura F, Chen X, Gewurz BE, Davis BM, Lencer WI, Waldor MK

(2014) MBio, 5(4). pii: e01639-14

http://www.ncbi.nlm.nih.gov/pubmed/25139905

2014

Virology

The PDZ-Binding Motif of Severe Acute Respiratory Syndrome Coronavirus Envelope Protein Is a Determinant of Viral Pathogenesis

Jimenez-Guardeño JM, Nieto-Torres JL, DeDiego ML, Regla-Nava JA, Fernandez-Delgado R, Castaño-Rodriguez C, Enjuanes L

(2014) PLoS Pathog., 10(8):e1004320

http://www.ncbi.nlm.nih.gov/pubmed/25122212

2014

Neuroscience

Plasma DYRK1A as a novel risk factor for Alzheimer's disease

Janel N, Sarazin M, Corlier F, Corne H, de Souza LC, Hamelin L, Aka A, Lagarde J, Blehaut H, Hindié V, Rain JC, Arbones ML, Dubois B, Potier MC, Bottlaender M, Delabar JM

(2014) Transl. Psychiatry, 4:e425

http://www.ncbi.nlm.nih.gov/pubmed/25116835

2014

Cell Biology

SPEG Interacts with Myotubularin, and Its Deficiency Causes Centronuclear Myopathy with Dilated Cardiomyopathy

Agrawal PB, Pierson CR, Joshi M, Liu X, Ravenscroft G, Moghadaszadeh B, Talabere T, Viola M, Swanson LC, Haliloğlu G, Talim B, Yau KS, Allcock RJ, Laing NG, Perrella MA, Beggs AH

(2014) Am. J. Hum. Genet., 95(2):218-26

https://www.ncbi.nlm.nih.gov/pubmed/25087613

2014

Cell Biology

Gαs regulates the post-endocytic sorting of G protein-coupled receptors

Rosciglione S, Thériault C, Boily MO, Paquette M, Lavoie C

(2014) Nat. Commun., 5:4556

https://www.ncbi.nlm.nih.gov/pubmed/25089012

2014

Cell Biology

Homodimerization of RBPMS2 through a new RRM-interaction motif is necessary to control smooth muscle plasticity

Sagnol S, Yang Y, Bessin Y, Allemand F, Hapkova I, Notarnicola C, Guichou JF, Faure S, Labesse G, de Santa Barbara P

(2014) Nucleic Acids Res., 42(15):10173-84

http://www.ncbi.nlm.nih.gov/pubmed/25064856

2014

Cell Biology

FHOD1 interaction with nesprin-2G mediates TAN line formation and nuclear movement

Kutscheidt S, Zhu R, Antoku S, Luxton GW, Stagljar I, Fackler OT, Gundersen GG

(2014) Nat. Cell Biol., 16(7):708-15

http://www.ncbi.nlm.nih.gov/pubmed/24880667

2014

Neuroscience

Lysosome size, motility and stress response regulated by fronto-temporal dementia modifier TMEM106B

Stagi M, Klein ZA, Gould TJ, Bewersdorf J, Strittmatter SM

(2014) Mol. Cell Neurosci., 61:226-40

https://www.ncbi.nlm.nih.gov/pubmed/25066864

2014

Cell Biology

The late endosomal p14-MP1 (LAMTOR2/3) complex regulates focal adhesion dynamics during cell migration

Schiefermeier N, Scheffler JM, de Araujo ME, Stasyk T, Yordanov T, Ebner HL, Offterdinger M, Munck S, Hess MW, Wickström SA, Lange A, Wunderlich W, Fässler R, Teis D, Huber LA

(2014)J Cell Biol., 205(4):525-540

http://www.ncbi.nlm.nih.gov/pubmed/24841562

2014

Plant Biology

Expression of a Truncated ATHB17 Protein in Maize Increases Ear Weight at Silking

Rice EA, Khandelwal A, Creelman RA, Griffith C, Ahrens JE, Taylor JP, Murphy LR, Manjunath S, Thompson RL, Lingard MJ, Back SL, Larue H, Brayton BR, Burek AJ, Tiwari S, Adam L, Morrell JA, Caldo RA, Huai Q, Kouadio JL, Kuehn R, Sant AM, Wingbermuehle WJ, Sala R, Foster M, Kinser JD, Mohanty R, Jiang D, Ziegler TE, Huang MG, Kuriakose SV, Skottke K, Repetti PP, Reuber TL, Ruff TG, Petracek ME, Loida PJ

(2014)PLoS One, 9(4):e94238

http://www.ncbi.nlm.nih.gov/pubmed/24736658

2014

Cell Biology

Tensin-4-Dependent MET Stabilization Is Essential for Survival and Proliferation in Carcinoma Cells

Muharram G, Sahgal P, Korpela T, De Franceschi N, Kaukonen R, Clark K, Tulasne D, Carpén O, Ivaska J

(2014)Dev Cell, 29(4):421-36

http://www.ncbi.nlm.nih.gov/pubmed/24814316

2014

Cell Biology

Src kinases and ERK activate distinct responses to Stitcher receptor tyrosine kinase signaling during wound healing in Drosophila

Tsarouhas V, Yao L, Samakovlis C

(2014) J. Cell Sci., 127(Pt 8):1829-39

http://www.ncbi.nlm.nih.gov/pubmed/24522188

2014

Cell Biology

New classes of mind bomb-interacting proteins identified from yeast two-hybrid screens

Tseng LC, Zhang C, Cheng CM, Xu H, Hsu CH, Jiang YJ

(2014) PLoS One, 9(4):e93394

http://www.ncbi.nlm.nih.gov/pubmed/24714733

2014

Plant Biology

Phytoplasma effector SAP54 hijacks plant reproduction by degrading MADS-box proteins and promotes insect colonization in a RAD23-dependent manner

MacLean AM, Orlovskis Z, Kowitwanich K, Zdziarska AM, Angenent GC, Immink RG, Hogenhout SA.

(2014) PLoS Biol, 12(4):e1001835

http://www.ncbi.nlm.nih.gov/pubmed/24714165

2014

Cell Biology

The SNARE Sec22b has a non-fusogenic function in plasma membrane expansion

Petkovic M, Jemaiel A, Daste F, Specht CG, Izeddin I, Vorkel D, Verbavatz JM, Darzacq X, Triller A, Pfenninger KH, Tareste D, Jackson CL, Galli T

(2014) Nat Cell Biol, 16(5):434-44

http://www.ncbi.nlm.nih.gov/pubmed/24705552

2014

Cell Biology

Apm4, the mu subunit of yeast AP-2 interacts with Pkc1, and mutation of the Pkc1 consensus phosphorylation site Thr176 inhibits AP-2 recruitment to endocytic sites

Chapa-Y-Lazo B, Ayscough KR

(2014) Commun. Integr. Biol., 7:e28522

http://www.ncbi.nlm.nih.gov/pubmed/25346786

2014

Cell Biology

Proteins Associated with SF3a60 in T. brucei

Nyambega B, Helbig C, Masiga DK, Clayton C, Levin MJ

(2014) PLoS One, (9) e91956

http://www.ncbi.nlm.nih.gov/pubmed/24651488

2014

Cell Biology

Association of TM4SF4 with the human thiamine transporter-2 in intestinal epithelial cells

Subramanian VS, Nabokina SM, Said HM

(2014) Dig. Dis. Sci., 59(3):583-90

http://www.ncbi.nlm.nih.gov/pubmed/24282057

2014

Development

A Complex Regulatory Network Coordinating Cell Cycles During Caenorhabditis elegans Development Is Revealed by a Genome-Wide RNAi Screen

Roy SH, Tobin DV, Memar N, Beltz E, Holmen J, Clayton JE, Chiu DJ, Young LD, Green TH, Lubin I, Liu Y, Conradt B, Saito RM

(2014) G3 (Bethesda), 4(5):795-804

http://www.ncbi.nlm.nih.gov/pubmed/24584095

2014

Cell Biology

G-protein coupled receptor BAI3 promotes myoblast fusion in vertebrates

Hamoud N1, Tran V, Croteau LP, Kania A, Côté JF

(2014) PNAS, 10.1073,1313886111

http://www.ncbi.nlm.nih.gov/pubmed/24567399

2014

Plant Biology

A Conserved KIN17 Curved DNA-Binding Domain Protein Assembles with SQUAMOSA PROMOTER-BINDING PROTEIN-LIKE7 to Adapt Arabidopsis Growth and Development to Limiting Copper Availability

Garcia-Molina A, Xing S, Huijser P

(2014) Plant Physiol., (164) 828–840

http://www.ncbi.nlm.nih.gov/pubmed/24335506

2014

Cancer Research

Metastasis suppressor KISS1 seems to reverse the Warburg effect by enhancing mitochondrial biogenesis

Liu W, Beck BH, Vaidya KS, Nash KT, Feeley KP, Ballinger SW, Pounds KM, Denning WL, Diers AR, Landar A, Dhar A, Iwakuma T, Welch DR

(2014) Cancer Res., 74(3):954-63

https://www.ncbi.nlm.nih.gov/pubmed/25207797

2014

Cell Biology

DNA bending facilitates the error-free DNA damage tolerance pathway and upholds genome integrity

Gonzalez-Huici V, Szakal B, Urulangodi M, Psakhye I, Castellucci F, Menolfi D, Rajakumara E, Fumasoni M, Bermejo R, Jentsch S, Branzei D

(2014) EMBO J, 33(4):327-40

http://www.ncbi.nlm.nih.gov/pubmed/24473148

2014

Plant Biology

Pathogen and Circadian Controlled 1 (PCC1) Protein Is Anchored to the Plasma Membrane and Interacts with Subunit 5 of COP9 Signalosome in Arabidopsis

Mir R, León J

(2014) PLoS One, (9) e87216

http://www.ncbi.nlm.nih.gov/pubmed/24475254

2014

Cell Biology

Plakophilin-3 catenin associates with the ETV1/ER81 transcription factor to positively modulate gene activity

Munoz WA, Lee M, Miller RK, Ahmed Z, Ji H, Link TM, Lee GR, Kloc M, Ladbury JE, McCrea PD

(2014) PLoS One, 9(1):e86784

https://www.ncbi.nlm.nih.gov/pubmed/24475179

2014

Development

The C. elegans LC3 Acts Downstream of GABARAP to Degrade Autophagosomes by Interacting with the HOPS Subunit VPS39

Manil-Ségalen M, Lefebvre C, Jenzer C, Trichet M, Boulogne C, Satiat-Jeunemaitre B, Legouis R

(2014) Dev. Cell, 28(1):43-55

http://www.ncbi.nlm.nih.gov/pubmed/24374177

2014

Development

Brain tumor specifies intermediate progenitor cell identity by attenuating β-catenin/Armadillo activity

Komori H, Qi X, Brooke M, McCartney, and Cheng-Yu L

(2014) Development, 141(1):51-62

http://www.ncbi.nlm.nih.gov/pubmed/24257623

2014

Cell Biology

The UbL protein UBTD1 stably interacts with the UBE2D family of E2 ubiquitin conjugating enzymes

Uhler JP, Spåhr H, Farge G, Clavel S, Larsson NG, Falkenberg M, Samuelsson T and Gustafsson CM

(2014) Biochem. Biophys. Res. Commun., 443(1):7-12

http://www.ncbi.nlm.nih.gov/pubmed/24211586

2014

Cell Biology

The leukemia-associated Rho guanine nucleotide exchange factor LARG is required for efficient replication stress signaling

Beveridge RD, Staples CJ, Patil AA, Myers KN, Maslen S, Skehel JM, Boulton SJ, Collis SJ

(2014) Cell Cycle 13(21):3450-9

https://www.ncbi.nlm.nih.gov/pubmed/25485589

2013

Cancer Research

Endosomal WASH and exocyst complexes control exocytosis of MT1-MMP at invadopodia

Monteiro P, Rossé C, Castro-Castro C, Irondelle M, Lagoutte E, Paul-Gilloteaux P, Desnos C, Formstecher E, Darchen F, Perrais D, Gautreau A, Hertzog M, and Chavrier P

(2013) J. Cell Biol., 203(6):1063-79

http://www.ncbi.nlm.nih.gov/pubmed/24344185

2013

Plant Biology

XRN4 and LARP1 are required for a heat-triggered mRNA decay pathway involved in plant acclimation and survival during thermal stress

Merret R, Descombin J, Juan YT, Favory JJ, Carpentier MC, Chaparro C, Charng YY, Deragon JM, Bousquet-Antonelli C

(2013) Cell Rep., 5(5):1279-93

https://www.ncbi.nlm.nih.gov/pubmed/24332370

2013

Cell Biology

Identification of Global Ferredoxin Interaction Networks in Chlamydomonas reinhardtii

Peden EA, Boehm M, Mulder DW, Davis R, Old WM, King PW, Ghirardi ML, Dubini A

(2013)J. Biol. Chem., 288(49):35192-209

http://www.ncbi.nlm.nih.gov/pubmed/24100040

2013

Neuroscience

PRICKLE1 Interaction with SYNAPSIN I Reveals a Role in Autism Spectrum Disorders

Paemka L, Mahajan VB, Skeie JM, Sowers LP, Ehaideb SN, Gonzalez-Alegre P, Sasaoka T, Tao H, Miyagi A, Ueno N, Takao K, Miyakawa T, Wu S, Darbro BW, Ferguson PJ, Pieper AA, Britt JK, Wemmie JA, Rudd DS, Wassink T, El-Shanti H, Mefford HC, Carvill GL, Manak JR, Bassuk AG

(2013) PLoS One, (8) e80737

http://www.ncbi.nlm.nih.gov/pubmed/24312498

2013

Microbiology

The chlamydial OTU domain-containing protein ChlaOTU is an early type III secretion effector targeting ubiquitin and NDP52

Furtado AR, Essid M, Perrinet S, Balañá ME, Yoder N, Dehoux P, Subtil A

(2013) Cell Microbiol., 15(12):2064-79

https://www.ncbi.nlm.nih.gov/pubmed/23869922

2013

Cell Biology

Rab4b controls an early endosome sorting event by interacting with the γ-subunit of the clathrin adaptor complex 1

Perrin L, Lacas-Gervais S, Gilleron J, Ceppo F, Prodon F, Benmerah A, Tanti JF, and Cormont M

(2013) J. Cell Sci., (126):4950-4962

http://www.ncbi.nlm.nih.gov/pubmed/24006255

2013

Plant Biology

Arabidopsis J-Protein J20 Delivers the First Enzyme of the Plastidial Isoprenoid Pathway to Protein Quality Control

Pulido P, Toledo-Ortiz G, Phillips MA, Wright PL, Rodríguez-Concepción M

(2013) Plant Cell, (25):4183-4194

http://www.ncbi.nlm.nih.gov/pubmed/24104567

2013

Cancer Research

RSK2 regulates endocytosis of FGF receptor 1 by phosphorylation on serine 789

Nadratowska-Wesolowska B1, Haugsten EM, Zakrzewska M, Jakimowicz P, Zhen Y, Pajdzik D, Wesche J, Wiedlocha A

(2013) Oncogene, 10/1038-425, 33(40):4823-36

http://www.ncbi.nlm.nih.gov/pubmed/24141780

2013

Cancer Research

Ribosomal Proteins RPL37, RPS15 and RPS20 Regulate the Mdm2-p53-MdmX Network

Daftuar L, Zhu Y, Jacq X, Prives C

(2013) PLoS One, 8 (7): e68667

http://www.plosone.org/article/info:doi/10.1371/journal.pone.0068667

2013

Virology

HIV-1 Vpr Induces the Degradation of ZIP and sZIP, Adaptors of the NuRD Chromatin Remodeling Complex, by Hijacking DCAF1/VprBP

Maudet C, Sourisce A, Dragin L, Lahouassa H, Rain JC, Bouaziz S, Ramirez BC, Margottin-Goguet F

(2013) PLoS One, 8 (10): e77320

http://www.plosone.org/article/info%3Adoi%2F10.1371%2Fjournal.pone.0077320

2013

Neuroscience

Silencing of doublecortin-like (DCL) results in decreased mitochondrial activity and delayed neuroblastoma tumor growth

Verissimo CS, Elands R, Cheng S, Saaltink DJ, ter Horst JP, Alme MN, Pont C, van de Water B, Håvik B, Fitzsimons CP, Vreugdenhil E

(2013) PLoS One, (8) e75752

http://www.ncbi.nlm.nih.gov/pubmed/24086625

2013

Cancer Research

The Dependence Receptor TrkC Triggers Mitochondria-Dependent Apoptosis upon Cobra-1 Recruitment

Ichim G, Genevois AL, Ménard M, Yu LY, Coelho-Aguiar JM, Llambi F, Jarrosson-Wuilleme L, Lefebvre J, Tulasne D, Dupin E, Le Douarin N, Arumäe U, Tauszig-Delamasure S, Mehlen P

(2013) Mol. Cell,(51) 632-46

http://www.ncbi.nlm.nih.gov/pubmed/24034695

2013

Cancer Research

HTLV-1 bZIP factor dysregulates the Wnt pathways to support proliferation and migration of adult T-cell leukemia cells

Ma G, Yasunaga J, Fan J, Yanagawa S and Matsuoka M

(2013) Oncogene, 32(36):4222-30

http://www.ncbi.nlm.nih.gov/pubmed?term=23045287

2013

Development

TSHZ3 and SOX9 regulate the timing of smooth muscle cell differentiation in the ureter by reducing myocardin activity

Martin E, Caubit X, Airik R, Vola C, Fatmi A, Kispert A, Fasano L.

(2013), PLoS One, 8(5):e63721

http://www.ncbi.nlm.nih.gov/pubmed/23671695

2013

Cell Biology

The guanine nucleotide exchange factor Rlf interacts with SH3 domain-containing proteins via a binding site with a preselected conformation

Popovic M, Jakobi AJ, Rensen-de Leeuw M, Rehmann H

(2013) J. Struct. Biol., 183(3):312-9

https://www.ncbi.nlm.nih.gov/pubmed/23891840

2013

Cell Biology

Microtubule severing by the katanin complex is activated by PPFR-1-dependent MEI-1 dephosphorylation

Gomes JE, Tavernier N, Richaudeau B, Formstecher E, Boulin T, Mains PE, Dumont J and Pintard L

(2013) J. Cell Biol., (202)431-439

http://www.ncbi.nlm.nih.gov/pubmed/23918937

2013

Cell Biology

Coiled-Coil Domain Containing Protein 124 Is a Novel Centrosome and Midbody Protein That Interacts with the Ras-Guanine Nucleotide Exchange Factor 1B and Is Involved in Cytokinesis

Telkoparan P, Erkek S, Yaman E, Alotaibi H, Bayık D and Tazebay UH

(2013) PlosOne, 8: e69289

http://www.ncbi.nlm.nih.gov/pubmed/23894443

2013

Neuroscience

Shootin1 Acts in Concert with KIF20B to Promote Polarization of Migrating Neurons

Sapir T, Levy T, Sakakibara A, Rabinkov A, Miyata T and Reiner O

(2013) J. Neurosci., (33) 11932-11948

http://www.ncbi.nlm.nih.gov/pubmed/23864681

2013

Neuroscience

LOC689986, a unique gene showing specific expression in restricted areas of the rodent neocortex

Ersland KM, Håvik B, Rinholm JE, Gundersen V, Stansberg C, Steen VM.

(2013) BMC Neurosci., 14:68

https://www.ncbi.nlm.nih.gov/pubmed/23844656

2013

Plant Biology

Trans-Golgi Network Localized ECHIDNA/Ypt Interacting Protein Complex Is Required for the Secretion of Cell Wall Polysaccharides in Arabidopsis

Gendre D, McFarlane HE, Johnson E, Mouille G, Sjödin A, Oh J, Levesque-Tremblay G, Watanabe Y, Samuels L, Bhalerao RP

(2013) Plant Cell, 25(7):2633-46

http://www.ncbi.nlm.nih.gov/pubmed/23832588

2013

Cell Biology

FAM190A deficiency creates a cell division defect

Patel K, Scrimieri F, Ghosh S, Zhong J, Kim MS, Ren YR, Morgan RA, Iacobuzio-Donahue CA, Pandey A, Kern SE

(2013) Am. J. Pathol., (183) 296–303

http://www.ncbi.nlm.nih.gov/pubmed/23665203

2013

Cell Biology

Functional Integration of the Conserved Domains of Shoc2 Scaffold

Jeoung M, Abdelmoti L, Jang ER, Vander Kooi CW, Galperin E

(2013) PLoS One, 8(6): e66067

http://www.ncbi.nlm.nih.gov/pubmed/23805200

2013

Plant Biology

The P6 protein of Cauliflower mosaic virus interacts with CHUP1, a plant protein which moves chloroplasts on actin microfilaments

Angel CA, Lutz L, Yang X, Rodriguez A, Adair A, Zhang Y, Leisner SM, Nelson RS and Schoelz JE

(2013) Virology, 443(2):363-74

http://www.ncbi.nlm.nih.gov/pubmed/23769239

2013

Plant Biology

The bHLH proteins BEE and BIM positively modulate the shade avoidance syndrome in Arabidopsis seedlings

Cifuentes-Esquivel N, Bou-Torrent J, Galstyan A, Galllemí M, Sessa G, Salla-Martret M, Roig-Villanova I, Ruberti I and Martínez-García JF

(2013) Plant J., 75(6):989-100

http://www.ncbi.nlm.nih.gov/pubmed/23763263

2013

Cell Biology

A New Mint1 Isoform, but Not the Conventional Mint1, Interacts with the Small GTPase Rab6

Thyrock A, Ossendorf E, Stehling M, Kail M, Kurtz T, Pohlentz G, Waschbüsch D, Eggert S, Formstecher E, Müthing J, Dreisewerd K, Kins S, Goud B, Barnekow A

(2013) PLoS One, 8(5):e6414

http://www.ncbi.nlm.nih.gov/pubmed/23737971

2013

Cell Biology

Direct binding between BubR1 and B56-PP2A phosphatase complexes regulate mitotic progression

Kruse T, Zhang G, Larsen MS, Lischetti T, Streicher W, Nielsen TK, Bjørn SP and Nilsson J

(2013) J. Cell Sci., (126) 1086-1092

http://www.ncbi.nlm.nih.gov/pubmed/23345399

2013

Plant Biology

Negative Feedback Control of Jasmonate Signaling by an Alternative Splice Variant of JAZ10

Moreno JE, Shyu C, Campos ML, Patel L, Chung HS, Yao J, He SY and Howe GA

(2013) Plant Physiol., 162(2):1006-17

http://www.ncbi.nlm.nih.gov/pubmed/23632853

2013

Development

The BRCA1-binding protein BRAP2 can act as a cytoplasmic retention factor for nuclear and nuclear envelope-localizing testicular proteins

Davies RG, Wagstaff KM, McLaughlin E, Loveland KA and Jans DA

(2013) BBA - Molecular Cell Research, 1833(12):3436-44

http://www.ncbi.nlm.nih.gov/pubmed/23707952

2013

Neuroscience

Dock3 interaction with a glutamate-receptor NR2D subunit protects neurons from excitotoxicity

Bai N, Hayashi H, Aida T, Namekata K, Harada T, Mishina M, Tanaka K

(2013) Mol. Brain, (6)22

http://www.ncbi.nlm.nih.gov/pubmed/23641686

2013

Cell Biology

Biosynthesis of the urease metallocenter

Farrugia MA, Macomber L, Hausinger RP

(2013) J. Biol. Chem., (288) 13178–13185

http://www.ncbi.nlm.nih.gov/pubmed/23539618%0D%0D

2013

Cell Biology

Glyoxalate reductase/hydroxypyruvate reductase interacts with the sodium-dependent vitamin C transporter-1 to regulate cellular vitamin C homeostasis

Subramanian V S, Nabokina SM, Patton JR, Marchant JS, Moradi H, and Said HM

(2013) Am. J. Physiol. Gastr. Liver Physiol., 304(12):G1079-86

http://www.ncbi.nlm.nih.gov/pubmed/23599041

2013

Development

Binding of Drosophila Polo kinase to its regulator Matrimony is noncanonical and involves two separate functional domains

Bonner AM, Hughes SE, Chisholm JA, Smith SK, Slaughter BD, Unruh JR, Collins KA, Friederichs JM, Florens L, Swanson SK, Pelot MC, Miller DE, Washburn MP, Jaspersen SL, Hawley RS

(2013) PNAS, 110(13):E1222-31

http://www.ncbi.nlm.nih.gov/pubmed/23479640

2013

Cell Biology

BANK1 and BLK Act through Phospholipase C Gamma 2 in B-Cell Signaling

Bernal-Quirós M, Wu YY, Alarcón-Riquelme ME and Castillejo-López C

(2013) PLoS One, (8) e59842

http://www.ncbi.nlm.nih.gov/pubmed/23555801

2013

Cancer Research

Nuclear alpha1-antichymotrypsin promotes chromatin condensation and inhibits proliferation of human hepatocellular carcinoma cells

Santamaria M, Pardo-Saganta A, Alvarez-Asiain L, Di Scala M, Qian C, Prieto J, Avila MA.

(2013) Gastroenterology, 144(4):818-828.e4

https://www.ncbi.nlm.nih.gov/pubmed/23295442

2013

Cell Biology

A human skeletal muscle interactome centered on proteins involved in muscular dystrophies: LGMD interactome

Blandin G, Marchand S, Charton K, Danièle N, Gicquel E, Boucheteil JB, Bentaib A, Barrault L, Stockholm D, Bartoli M, and Richard I

(2013) Skelet Muscle, 3(1):3

http://www.ncbi.nlm.nih.gov/pubmed/23414517

2013

Cell Biology

Recruitment of UBPY and ESCRT Exchange Drive HD-PTP-Dependent Sorting of EGFR to the MVB

Ali N, Zhang L, Taylor S, Mironov A, Urbé S, and Woodman P

(2013) Curr. Biol., 23(6):453-61

http://www.ncbi.nlm.nih.gov/pubmed/23477725

2013

Plant Biology

CLASP Interacts with Sorting Nexin 1 to Link Microtubules and Auxin Transport via PIN2 Recycling in Arabidopsis thaliana

Ambrose C, Ruan Y, Gardiner J, Tamblyn LM, Catching A, Kirik V, Marc J, Overall R and Wasteneys GO

(2013) Dev. Cell, 24(6):649-59

http://www.ncbi.nlm.nih.gov/pubmed/23477787

2013

Cell Biology

Conundrum, an ARHGAP18 orthologue, regulates RhoA and proliferation through interactions with Moesin

Neisch AL, Formstecher E and Fehon RG

(2013) Mol. Biol. Cell, 24(9):1420-33

http://www.ncbi.nlm.nih.gov/pubmed/23468526

2013

Plant Biology

Identification of SHRUBBY, a SHORT-ROOT and SCARECROW interacting protein that controls root growth and radial patterning

Koizumi K and Gallagher KL

(2013) Development, (140) 1292-1300

http://www.ncbi.nlm.nih.gov/pubmed/23444357

2012

Cancer Research

Lysine methylation of VCP by a member of a novel human protein methyltransferase family

Kernstock S, Davydova E, Jakobsson M, Moen A, Pettersen S, Mælandsmo GM, Egge-Jacobsen W and Falnes P

(2012) Nat. Commun., 3:1038

http://www.ncbi.nlm.nih.gov/pubmed/22948820

2013

Cell Biology

ELMO recruits Actin Crosslinking Family 7 (ACF7) at the cell membrane for microtubule capture and stabilization of cellular protrusions

Margaron Y, Fradet N and Cote JF

(2012) J. Biol. Chem., 288(2):1184-99

http://www.ncbi.nlm.nih.gov/pubmed/23184944

2013

Cell Biology

The COMPASS Subunit Spp1 Links Histone Methylation to Initiation of Meiotic Recombination

Acquaviva L, Székvölgyi L, Dichtl B, Dichtl BS, de La Roche Saint André C, Nicolas A and Géli V

(2013) Science, 339(6116):215-8

http://www.ncbi.nlm.nih.gov/pubmed/23160953

2013

Immunology

Fam65b Is a New Transcriptional Target of FOXO1 That Regulates RhoA Signaling for T Lymphocyte Migration

Rougerie P, Largeteau Q, Megrelis L, Carrette F, Lejeune T, Toffali L., Rossi B, Zeghouf M, Cherfils J, Constantin G, Laudanna C, Bismuth G, Mangeney M and Delon J

(2012) J. Immunol., 190(2):748-55

http://www.ncbi.nlm.nih.gov/pubmed/23241886

2012

Cell Biology

Identification of novel interacting partners of sirtuin6

Polyakova O, Borman S, Grimley R, Vamathevan J, Hayes B and Solari R

(2012) PLoS One, 7(12):e51555

http://www.ncbi.nlm.nih.gov/pubmed/23240041

2012

Virology

Ezrin Interacts with the SARS Coronavirus Spike Protein and Restrains Infection at the Entry Stage

Millet JK, Kien F, Cheung CY, Siu YL, Chan WL, Li H, Leung HL, Jaume M, Bruzzone R, Peiris JS, Altmeyer RM and Nal B

(2012) PlosOne, 7(11):e49566

http://www.ncbi.nlm.nih.gov/pubmed/23185364

2012

Plant Biology

The Ubiquitin Ligase PUB22 Targets a Subunit of the Exocyst Complex Required for PAMP-Triggered Responses in Arabidopsis

Stegmann M, Anderson RG, Ichimura K, Pecenkova T, Reuter P, Zársky V, McDowell JM, Shirasu K, Trujillo M

(2012) Plant Cell, 24(11):4703-16

http://www.ncbi.nlm.nih.gov/pubmed/23170036

2012

Plant Biology

Arabidopsis thaliana AUCSIA-1 regulates auxin biology and physically interacts with a kinesin-related protein

Molesini B, Pandolfini T, Pii Y, Korte A, Spena A

(2012) PLoS One, 7(7):e41327

http://www.ncbi.nlm.nih.gov/pubmed/22911780

2012

Cell Biology

Folliculin, the Product of the Birt-Hogg-Dube Tumor Suppressor Gene, Interacts with the Adherens Junction Protein p0071 to Regulate Cell-Cell Adhesion

Medvetz D A, Khabibullin D, Hariharan V, Ongusaha PP, Goncharova EA, Schlechter T, Darling TN, Hofmann I, Krymskaya VP, Liao JK, Huang H, Henske EP

(2012) PLoS One, 7(11):e47842

http://www.ncbi.nlm.nih.gov/pubmed/23139756

2012

Cell Biology

Human ALKBH4 Interacts with Proteins Associated with Transcription

Bjørnstad LG, Meza TJ, Otterlei M, Olafsrud SM, Meza-Zepeda LA, Falnes PØ

(2012) PLoS One, 7(11):e49045

http://www.ncbi.nlm.nih.gov/pubmed/23145062

2012

Plant Biology

Synchronization of the flowering transition by the tomato TERMINATING FLOWER gene

Macalister CA, Park SJ, Jiang K, Marcel F, Bendahmane A, Izkovich Y, Eshed Y, Lippman ZB

(2012) Nature Genetics, 44(12):1393-8

http://www.ncbi.nlm.nih.gov/pubmed/23143603

2012

Development

Integration of Kinase and Phosphatase Activities by BUBR1 Ensures Formation of Stable Kinetochore-Microtubule Attachments

Suijkerbuijk SJ, Vleugel M, Teixeira A and Kops GJ

(2012) Dev Cell, 23(4):745-55

http://www.ncbi.nlm.nih.gov/pubmed?term=23079597

2012

Cancer Research

Iodide Transporter NIS Regulates Cancer Cell Motility and Invasiveness by Interacting with the Rho Guanine Nucleotide Exchange Factor LARG

Lacoste C, Hervé J, Bou Nader M, Dos Santos A, Moniaux N, Valogne Y, Montjean R, Dorseuil O, Samuel D, Cassio D, Portulano C, Carrasco N, Bréchot C and Faivre J

(2012) Cancer Research, 72(21):5505-15

http://www.ncbi.nlm.nih.gov/pubmed/22962269

2013

Cancer Research

Novel mechanism of apoptosis resistance in cancer mediated by extracellular PAR-4

Burikhanov R, Shrestha-Bhattarai T, Qiu S, Shukla N, Hebbar N, Lele SM, Horbinski C, Rangnekar VM

(2021) Cancer Res,15;73(2):1011-9

https://pubmed.ncbi.nlm.nih.gov/23204231/

2012

Cancer Research

The transcription factor CREBZF is a novel positive regulator of p53

López-Mateo I, Villaronga M A, Llanos S and Belandia B

(2012) Cell Cycle, 11(20):3887-95

http://www.ncbi.nlm.nih.gov/pubmed/22983008

2012

Development

Numb/Numbl-Opo Antagonism Controls Retinal Epithelium Morphogenesis by Regulating Integrin Endocytosis

Bogdanovic O, Delfino-Machín M, Nicolás-Pérez M, Gavilán M P, Gago-Rodrigues I, Fernández-Miñán A, Lillo C, Ríos RM, Wittbrodt J and Martínez-Morales JR

(2012) Dev. Cell, 23(4):782-95

http://www.ncbi.nlm.nih.gov/pubmed/23041384

2012

Cell Biology

New insights into Dok-4 PTB domain structure and function

Hooker E, Baldwin C and Lemay S

(2012) Biochem. Biophys. Res. Commun., 427(1):67-72

http://www.ncbi.nlm.nih.gov/pubmed/22982678

2012

Cell Biology

A Molecular Network for the Transport of the TI-VAMP/VAMP7 Vesicles from Cell Center to Periphery

Burgo A, Proux-Gillardeaux V, Sotirakis E, Bun P, Casano A, Verraes A, Liem RK, Formstecher E, Coppey-Moisan M and Galli T

(2012) Dev. Cell, 23(1):166-80

http://www.ncbi.nlm.nih.gov/pubmed/22705394

2012

Cell Biology

A meckelin-filamin A interaction mediates ciliogenesis

Adams M, Simms RJ, Abdelhamed Z, Dawe HR, Szymanska K, Logan CV, Wheway G, Pitt E, Gull K, Knowles M A, Blair E, Cross SH, Sayer JA and Johnson CA

(2012) Hum. Mol. Genet., 21(6):1272-86

http://www.ncbi.nlm.nih.gov/pubmed/22121117

2012

Cancer Research

Hypermethylated in cancer 1 (HIC1) recruits polycomb repressive complex 2 (PRC2) to a subset of its target genes through interaction with human polycomb-like (hPCL) proteins

Boulay G, Dubuissez M, Van Rechem C, Forget A, Helin K, Ayrault O and Leprince D

(2012) J. Biol. Chem., 287(13):10509-24

http://www.ncbi.nlm.nih.gov/pubmed/22315224

2012

Cell Biology

Mcm10 associates with the loaded DNA helicase at replication origins and defines a novel step in its activation

van Deursen F, Sengupta S, De Piccoli G, Sanchez-Diaz A and Labib K

(2012) EMBO J, 31(9):2195-206

http://www.ncbi.nlm.nih.gov/pubmed/22433841

2012

Cell Biology

Rab8a regulates the exocyst-mediated kiss-and-run discharge of the Dictyostelium contractile vacuole

Essid M, Gopaldass N, Yoshida K, Merrifield C and Soldati T

(2012) Mol. Biol. Cell, (7):1267-82

http://www.ncbi.nlm.nih.gov/pubmed/22323285

2012

Virology

Ex Vivo and In Vivo Inhibition of Human Rhinovirus Replication by a New Pseudosubstrate of Viral 2A Protease

Falah N, Violot S, Décimo D, Berri F, Foucault-Grunenwald ML, Ohlmann T, Schuffenecker I, Morfin F, Lina B, Riteau B and Cortay JC

(2012) J. Virol., 86(2):691-704

http://www.ncbi.nlm.nih.gov/pubmed/22072773

2012

Virology

Human annexin a6 interacts with influenza a virus protein m2 and negatively modulates infection

Ma H, Kien F, Manière M, Zhang Y, Lagarde N, Tse KS, Poon LL and Nal B

(2012) J. Virol., 86(3):1789-801

http://www.ncbi.nlm.nih.gov/pubmed/22114333

2012

Development

MAP and kinesin-dependent nuclear positioning is required for skeletal muscle function

Metzger T, Gache V, Xu M, Cadot B, Folker ES, Richardson BE, Gomes ER and Baylies MK

(2012) Nature, 484(7392):120-4

http://www.ncbi.nlm.nih.gov/pubmed/22425998

2012

Cell Biology

Cyclin-dependent kinase 16/PCTAIRE kinase 1 is activated by cyclin Y and is essential for spermatogenesis

Mikolcevic P, Sigl R, Rauch V, Hess MW, Pfaller K, Barisic M, Pelliniemi LJ, Boesl M and Geley S

(2012) Mol. Cell Biol., 32(4):868-79

http://www.ncbi.nlm.nih.gov/pubmed/22184064

2012

Cell Biology

Pex3-anchored Atg36 tags peroxisomes for degradation in Saccharomyces cerevisiae

Motley AM, Nuttall JM and Hettema E H

(2012) EMBO J, 31(13):2852-68

http://www.ncbi.nlm.nih.gov/pubmed/22643220

2012

Plant Biology

Involvement of the N-terminal B-box domain of Arabidopsis BBX32 in interacting with soybean BBX62

Qi Q, Gibson A, Fu X, Zheng M, Kuehn R, Wang Y, Wang Y, Navarro S, Morrell JA, Jiang D, Simmons G, Bell E, Ivleva NB, McClerren AL, Loida P, Ruff TG, Petracek ME, Preuss SB

(2012) J Biol Chem, 287(37):31482-93

http://www.ncbi.nlm.nih.gov/pubmed/22801428

2012

Virology

Respiratory syncytial virus assembles into structured filamentous virion particles independently of host cytoskeleton and related proteins

Shaikh FY, Utley TJ, Craven RE, Rogers MC, Lapierre LA, Goldenring JR and Crowe JE Jr

(2012) PLoS One, 7(7):e40826

http://www.ncbi.nlm.nih.gov/pubmed/22808269

2012

Cell Biology

Ezrin ubiquitylation by the E3 ubiquitin ligase, WWP1, and consequent regulation of hepatocyte growth factor receptor activity

Zaarour RF, Chirivino D, Maestro LD, Daviet L, Atfi A, Louvard D and Arpin M

(2012) PLoS One, 7(5):e37490

http://www.ncbi.nlm.nih.gov/pubmed/22629406

2012

Cell Biology

Ezrin regulates microvillus morphogenesis by promoting distinct activities of Eps8 proteins

Zwaenepoel I, Naba A, da Cunha MM, Del Maestro L, Formstecher E, Louvard D and Arpin M

(2012) Mol Biol Cell, 23(6):1080-94

http://www.ncbi.nlm.nih.gov/pubmed/22262457

2011

Plant Biology

A j-like protein influences Fatty Acid composition of chloroplast lipids in Arabidopsis

Ajjawi I, Coku A, Froehlich JE, Yang Y, Osteryoung KW, Benning C and Last RL

(2011) PLoS One, 6(10):e25368

http://www.ncbi.nlm.nih.gov/pubmed/22028775

2011

Cell Biology

Fukutin-related protein resides in the Golgi cisternae of skeletal muscle fibres and forms disulfide-linked homodimers via an N-terminal interaction

Alhamidi M, Kjeldsen Buvang E, Fagerheim T, Brox V, Lindal S, Van Ghelue M and Nilssen Øi

(2011) PLoS One, 6(8):e22968

http://www.ncbi.nlm.nih.gov/pubmed/21886772

2011

Cell Biology

BetaArrestin 1 inhibits the GAP function of ARHGAP21 so as to promote the activation of RhoA following angiotensin II type 1A receptor stimulation

Anthony DF, Sin YY, Vadrevu S, Advant N, Day JP, Byrne AM, Lynch MJ, Milligan G, Houslay MD and Baillie GS

(2011) Mol Cell Biol, 31(5):1066-75

http://www.ncbi.nlm.nih.gov/pubmed/21173159

2011

Cell Biology

Interaction between nucleosome assembly protein 1-like family members

Attia M, Förster A, Rachez C, Freemont P, Avner P and Rogner U C

(2011) J Mol Biol, 407(5):647-60

http://www.ncbi.nlm.nih.gov/pubmed/21333655

2011

Cell Biology

RalB and the exocyst mediate the cellular starvation response by direct activation of autophagosome assembly

Bodemann BO, Orvedahl A, Cheng T, Ram R R, Ou YH, Formstecher E, Maiti M, Hazelett C C, Wauson EM, Balakireva M, Camonis JH, Yeaman C, Levine B and White M A

(2011) Cell, 144(2):253-67

http://www.ncbi.nlm.nih.gov/pubmed/21241894

2011

Cell Biology

A Nup133-dependent NPC-anchored network tethers centrosomes to the nuclear envelope in prophase

Bolhy S, Bouhlel I, Dultz E, Nayak T, Zuccolo M, Gatti X, Vallee R, Ellenberg J and Doye V

(2011) J Cell Biol, 192(5):855-71

http://www.ncbi.nlm.nih.gov/pubmed/21383080

2011

Cell Biology

The ERM proteins interact with the class C-Vps/HOPS complex to regulate the maturation of endosomes

Chirivino D, Maestro L D, Formstecher E, Hupé P, Raposo G, Louvard D and Arpin M

(2011) Mol Biol Cell, 22(3):375-85

http://www.ncbi.nlm.nih.gov/pubmed/21148287

2011

Virology

Mutations affecting interaction of integrase with TNPO3 do not prevent HIV-1 cDNA nuclear import

Cribier A, Segeral E, Delelis O, Parissi V, Simon A, Ruff M, Benarous R and Emiliani S

(2011) Retrovirology, 8:104

http://www.ncbi.nlm.nih.gov/pubmed/22176773

2011

Cell Biology

Inhibition of autophagy by TAB2 and TAB3

Criollo A, Niso-Santano M, Malik S A, Michaud M, Morselli E, Mariño G, Lachkar S, Arkhipenko A V, Harper F, Pierron G, Rain JC, Ninomiya-Tsuji J, Fuentes JM, Lavandero S, Galluzzi L, Maiuri MC and Kroemer G

(2011) EMBO J, 30(24):4908-20

http://www.ncbi.nlm.nih.gov/pubmed/22081109

2011

Cell Biology

Rab35 GTPase and OCRL phosphatase remodel lipids and F-actin for successful cytokinesis

Dambournet D, Machicoane M, Chesneau L, Sachse M, Rocancourt M, Marjou A E, Formstecher E, Salomon R, Goud B and Echard A

(2011) Nat Cell Biol, 13(8):981-8

http://www.ncbi.nlm.nih.gov/pubmed/21706022

2011

Microbiology

Recruitment of the Major Vault Protein by InlK: A Listeria monocytogenes Strategy to Avoid Autophagy

Dortet L, Mostowy S, Louaka AS, Gouin E, Nahori MA, Wiemer E A, Dussurget O and Cossart P

PLoS Pathog, 7(8):e1002168

http://www.ncbi.nlm.nih.gov/pubmed/21829365

2011

Microbiology

Characterization of the elongasome core PBP2 : MreC complex of Helicobacter pylori

El Ghachi M, Matteï PJ, Ecobichon C, Martins A, Hoos S, Schmitt C, Colland F, Ebel C, Prévost MC, Gabel F, England P, Dessen A and Boneca IG

(2011) Mol Microbiol, 82(1):68-86

http://www.ncbi.nlm.nih.gov/pubmed/21801243

2011

Metabolism

Teashirt-3, a novel regulator of muscle differentiation, associates with BRG-1 associated factor 57 (BAF57) to inhibit myogenin gene expression

Faralli H, Martin E, Core N, Liu QC, Filippi P, Dilworth FJ, Caubit X and Fasano L

(2011) J Biol Chem, 286(26):23498-510

http://www.ncbi.nlm.nih.gov/pubmed/21543328

2011

Microbiology

Fusobacterium nucleatum adhesin FadA binds vascular-endothelial cadherin and alters endothelial integrity

Fardini Y, Wang X, Témoin S, Nithianantham S, Lee D, Shoham M and Han Y W

(2011) Mol Microbiol, 82(6):1468-80

http://www.ncbi.nlm.nih.gov/pubmed/22040113

2011

Cell Biology

The nucleoporin RanBP2 tethers the cAMP effector Epac1 and inhibits its catalytic activity

Gloerich M, Vliem MJ, Prummel E, Meijer L A, Rensen MG, Rehmann H and Bos JL

(2011) J Cell Biol, 193(6):1009-20

http://www.ncbi.nlm.nih.gov/pubmed/21670213

2011

Cell Biology

Caspase-3 cleavage links delta-catenin to the novel nuclear protein ZIFCAT

Gu D, Tonthat NK, Lee M, Ji H, Bhat K P, Hollingsworth F, Aldape K D, Schumacher M A, Zwaka T P and McCrea P D

(2011) J Biol Chem, 286(26):23178-88

http://www.ncbi.nlm.nih.gov/pubmed/21561870

2011

Virology

ATF3, an HTLV-1 bZip factor binding protein, promotes proliferation of adult T-cell leukemia cells

Hagiya K, Yasunaga JI, Satou Y, Ohshima K and Matsuoka M

(2011) Retrovirology, 8:19

http://www.ncbi.nlm.nih.gov/pubmed/21414204

2011

Cell Biology

The fifth adaptor protein complex

Hirst J, Barlow L D, Francisco G C, Sahlender D A, Seaman M N, Dacks J B and Robinson M S

(2011) PLoS Biol, 9(10):e1001170

http://www.ncbi.nlm.nih.gov/pubmed/22022230

2011

Metabolism

Myotubularin controls desmin intermediate filament architecture and mitochondrial dynamics in human and mouse skeletal muscle

Hnia K, Tronchère H, Tomczak K K, Amoasii L, Schultz P, Beggs A H, Payrastre B, Mandel J L and Laporte J

(2011) J Clin Invest, 121(1):70-85

http://www.ncbi.nlm.nih.gov/pubmed/21135508

2011

Cell Biology

A Pathway for the Control of Anoikis Sensitivity by E-Cadherin and Epithelial-to-Mesenchymal Transition

Kumar S, Park S H, Cieply B, Schupp, J., Killiam E, Zhang F, Rimm D L and Frisch S M

(2011) Mol Cell Biol, 31(19):4036-51

http://www.ncbi.nlm.nih.gov/pubmed/21746881

2011

Microbiology

A Bacterial Protein Targets the BAHD1 Chromatin Complex to Stimulate Type III Interferon Response

Lebreton A, Lakisic G, Job V, Fritsch L, Tham T N, Camejo A, Matteï PJ, Regnault B, Nahori MA, Cabanes D, Gautreau A, Si-Ali S A, Dessen A, Cossart P and Bierne H

(2011) Science, 331(6022):1319-21

http://www.ncbi.nlm.nih.gov/pubmed/21252314

2011

Metabolism

Novel interactions of ankyrins-G at the costameres: The muscle-specific Obscurin/Titin-Binding-related Domain (OTBD) binds plectin and filamin C

Maiweilidan Y, Klauza I, Kordeli E

(2011) Exp Cell Res, 317(6):724-36

http://www.ncbi.nlm.nih.gov/pubmed/21223964

2011

Plant Biology

The Tomato MADS-Box Transcription Factor RIPENING INHIBITOR Interacts with Promoters Involved in Numerous Ripening Processes in a COLORLESS NONRIPENING-Dependent Manner

Martel C, Vrebalov J, Tafelmeyer P and Giovannoni J J

(2011) Plant Physiol, 157(3):1568-79

http://www.ncbi.nlm.nih.gov/pubmed/21941001

2011

Cell Biology

Association of PDZ-containing protein PDZD11 with the human sodium-dependent multivitamin transporter

Nabokina S M, Subramanian V S and Said H M

(2011) Am J Physiol Gastrointest Liver Physiol, 300(4):G561-7

http://www.ncbi.nlm.nih.gov/pubmed/21183659

2011

Cancer Research

TBK1 Directly Engages Akt/PKB Survival Signaling to Support Oncogenic Transformation

Ou YH, Torres M, Ram R, Formstecher E, Roland C, Cheng T, Brekken R, Wurz R, Tasker A, Polverino T, Tan SL and White MA

(2011) Mol Cell, 41(4):458-70

http://www.ncbi.nlm.nih.gov/pubmed/21329883

2011

Cell Biology

SH3BP1, an exocyst-associated RhoGAP, inactivates Rac1 at the front to drive cell motility

Parrini MC, Sadou-Dubourgnoux A, Aoki K, Kunida K, Biondini M, Hatzoglou A, Poullet P, Formstecher E, Yeaman C, Matsuda M, Rossé C, Camonis J

(2011) Mol Cell, 42(5):650-61

http://www.ncbi.nlm.nih.gov/pubmed/21658605

2011

Cell Biology

The Arf family GTPase, Arl4A, complexes with ELMO to promote actin cytoskeleton remodeling and reveals a versatile Ras-Binding Domain in the ELMO protein family

Patel M, Chiang TC, Tran V, Lee FJ and Cote JF

(2011) J Biol Chem, 286(45):38969-79

http://www.ncbi.nlm.nih.gov/pubmed/21930703

2011

Cell Biology

A role for ZO-1 and PLEKHA7 in recruiting paracingulin to tight and adherens junctions of epithelial cells

Pulimeno P, Paschoud S and Citi S

(2011) J Biol Chem, 286(19):16743-50

http://www.ncbi.nlm.nih.gov/pubmed/21454477

2011

Cell Biology

The involvement of SMILE/TMTC3 in endoplasmic reticulum stress response

Racapé M, Huyen JP, Danger R, Giral M, Bleicher F, Pallier A, Pilet P, Tafelmeyer P, Ashton-Chess J, Dugast E, Pettré S, Charreau B, Soulillou JP and Brouard S

(2011) PLoS One, 6(5):e19321

http://www.ncbi.nlm.nih.gov/pubmed/21603654

2011

Development

Regulation of Drosophila glial cell proliferation by Merlin-Hippo signaling

Reddy, BV and Irvine KD

(2011) Development, 138(23):5201-12

http://www.ncbi.nlm.nih.gov/pubmed/22069188

2011

Cancer Research

A Tumor-Associated Mutation of FYVE-CENT Prevents Its Interaction with Beclin 1 and Interferes with Cytokinesis

Sagona A P, Nezis I P, Bache K G, Haglund K, Bakken A C, Skotheim R I and Stenmark H

(2011) PLoS One, 6(3):e17086

http://www.ncbi.nlm.nih.gov/pubmed/21455500

2011

Cell Biology

ERBIN is a new SARA-interacting protein: competition between SARA and SMAD2 and SMAD3 for binding to ERBIN

Sflomos G, Kostaras E, Panopoulou E, Pappas N, Kyrkou A, Politou A S, Fotsis T and Murphy C

(2011) J Cell Sci, 124(Pt 19):3209-22

http://www.ncbi.nlm.nih.gov/pubmed/21878490

2011

Metabolism

UBAP1 is a component of an endosome-specific ESCRT-I complex that is essential for MVB sorting

Stefani F, Zhang L, Taylor S, Donovan J, Rollinson S, Doyotte A, Brownhill K, Bennion J, Pickering-Brown S and Woodman P

(2011) Curr Biol, 21(14):1245-50

http://www.ncbi.nlm.nih.gov/pubmed/21757351

2011

Plant Biology

Phytoplasma protein effector SAP11 enhances insect vector reproduction by manipulating plant development and defense hormone biosynthesis

Sugio A, Kingdom H N, Maclean A M, Grieve V M and Hogenhout S A

(2011) Proc Natl Acad Sci U S A, 108(48):E1254-63

http://www.ncbi.nlm.nih.gov/pubmed/22065743

2011

Cancer Research

Regulation of PIDD auto-proteolysis and activity by the molecular chaperone Hsp90

Tinel A, Eckert M J, Logette E, Lippens S, Janssens S, Jaccard B, Quadroni M and Tschopp J

(2011) Cell Death Differ, 18(3):506-15

http://www.ncbi.nlm.nih.gov/pubmed/20966961

2011

Plant Biology

O-glycosylated cell wall proteins are essential in root hair growth

Velasquez S M, Ricardi M M, Dorosz J G, Fernandez P V, Nadra A D, Pol-Fachin L, Egelund J, Gille S, Harholt J, Ciancia M, Verli H, Pauly M, Bacic A, Olsen C E, Ulvskov P, Petersen B L, Somerville C, Iusem N D and Estevez J M

(2011) Science, 332(6036):1401-3

http://www.ncbi.nlm.nih.gov/pubmed/21680836

2011

Microbiology

Escherichia coli producing CNF1 toxin hijacks Tollip to trigger Rac1-dependent cell invasion

Visvikis O, Boyer L, Torrino S, Doye A, Lemonnier M, Lorès P, Rolando M, Flatau G, Mettouchi A, Bouvard D, Veiga E, Gacon G, Cossart P and Lemichez E

(2011) Traffic, 12(5):579-90

http://www.ncbi.nlm.nih.gov/pubmed/21291504

2011

Neuroscience

The psychiatric disease risk factors DISC1 and TNIK interact to regulate synapse composition and function

Wang Q, Charych E I, Pulito V L, Lee J B, Graziane N M, Crozier R A, Revilla-Sanchez R, Kelly M P, Dunlop A J, Murdoch H, Taylor N, Xie Y, Pausch M, Hayashi-Takagi A, Ishizuka K, Seshadri S, Bates B, Kariya K, Sawa A, Weinberg R J, Moss S J, Houslay M D, Yan Z and Brandon N J

(2011) Mol Psychiatry, 16(10):1006-23

http://www.ncbi.nlm.nih.gov/pubmed/20838393

2011

Development

The Enhancer of split transcription factor Her8a is a novel dimerisation partner for Her3 that controls anterior hindbrain neurogenesis in zebrafish

Webb K J, Coolen M, Gloeckner C J, Stigloher C, Bahn B, Topp S, Ueffing M and Bally-Cuif L

(2011) BMC Dev Biol, 11:27

http://www.ncbi.nlm.nih.gov/pubmed/21586122

2011

Virology

A protein (ORF2) encoded by the latency-related gene of bovine herpesvirus 1 interacts with Notch1 and Notch3

Workman A, Sinani D, Pittayakhajonwut D and Jones C

(2011) J Virol, 87(10):5493-501

https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3067920

2011

Cell Biology

La-related protein 4 binds poly(A), interacts with the poly(A)-binding protein MLLE domain via a variant PAM2w motif, and can promote mRNA stability

Yang R, Gaidamakov S A, Xie J, Lee J, Martino L, Kozlov G, Crawford A K, Russo A N, Conte M R, Gehring K and Maraia R J

(2011) Mol Cell Biol, 31(3):542-56

http://www.ncbi.nlm.nih.gov/pubmed/21098120

2011

Cancer Research

Increased RNA-Induced Silencing Complex (RISC) Activity Contributes to Hepatocellular Carcinoma

Yoo B K, Santhekadur P K, Gredler R, Chen D, Emdad L, Bhutia S, Pannell L, Fisher P B and Sarkar D

(2011) Hepatology, 53(5):1538-48

http://www.ncbi.nlm.nih.gov/pubmed/21520169

2011

Cell Biology

Interaction of the receptor FGFRL1 with the negative regulator Spred1

Zhuang L, Villiger P and Trueb B

(2011) Cell Signal, 23(9):1496-504

http://www.ncbi.nlm.nih.gov/pubmed/21616146

2011

Immunology

Tripartite motif containing protein 27 negatively regulates CD4 T cells by ubiquitinating and inhibiting the class II PI3K-C2Beta

Cai X, Srivastava S, Sun Y, Li Z, Wu H, Zuvela-Jelaska L, Li J, Salamon R S, Backer J M and Skolnik E Y

(2011) Proc Natl Acad Sci U S A, 108(50):20072-7

http://www.ncbi.nlm.nih.gov/pubmed/22128329

2011

Neuroscience

Disrupted-in-Schizophrenia 1-mediated axon guidance involves TRIO-RAC-PAK small GTPase pathway signaling

Chen SY, Huang PH, Cheng HJ

(2011) PNAS, 108(14):5861-6

http://www.ncbi.nlm.nih.gov/pubmed/21422296

2010

Cell Biology

A screen for deubiquitinating enzymes involved in the G(2)/M checkpoint identifies USP50 as a regulator of HSP90-dependent Wee1 stability

Aressy B, Jullien D, Cazales M, Marcellin M, Bugler B, Burlet-Schiltz O and Ducommun B

(2010) Cell Cycle, 9(18):3815-22

http://www.ncbi.nlm.nih.gov/pubmed/20930503

2010

Development

The WW domain protein Kibra acts upstream of Hippo in Drosophila

Baumgartner R, Poernbacher I, Buser N, Hafen E and Stocker H

(2010) Dev Cell, 18(2):309-16

http://www.ncbi.nlm.nih.gov/pubmed/20159600

2010

Plant Biology

PAH-domain-specific interactions of the Arabidopsis transcription coregulator SIN3-LIKE1 (SNL1) with telomere-binding protein 1 and ALWAYS EARLY2 Myb-DNA binding factors

Bowen A J, Gonzalez D, Mullins J G, Bhatt A M, Martinez A and Conlan R S

(2010) J Mol Biol, 395(5):937-49

http://www.ncbi.nlm.nih.gov/pubmed/19962994

2010

Cell Biology

Consortin, a trans-Golgi network cargo receptor for the plasma membrane targeting and recycling of connexins

del Castillo F J, Cohen-Salmon M, Charollais A, Caille D, Lampe P D, Chavrier P, Meda P and Petit C

(2010) Hum Mol Genet, 19(2):262-75

http://www.ncbi.nlm.nih.gov/pubmed/19864490

2010

Cell Biology

Xenopus Kazrin interacts with ARVCF-catenin, spectrin and p190B RhoGAP, and modulates RhoA activity and epithelial integrity

Cho K, Vaught TG, Ji H, Gu D, Papasakelariou-Yared C, Horstmann N, Jennings JM, Lee M, Sevilla LM, Kloc M, Reynolds A B, Watt F M, Brennan RG, Kowalczyk AP and McCrea PD

(2010) J Cell Sci, 123(Pt 23):4128-44

http://www.ncbi.nlm.nih.gov/pubmed/21062899

2010

Cell Biology

Functional interaction between the ubiquitin-specific protease 25 and the SYK tyrosine kinase

Cholay M, Reverdy C, Benarous R, Colland F, Daviet L

(2010) Exp Cell Res, 316(4):667-75

http://www.ncbi.nlm.nih.gov/pubmed/19909739

2010

Metabolism

Lack of Apobec2-related proteins causes a dystrophic muscle phenotype in zebrafish embryos

Etard C, Roostalu U and Strähle U

(2010) J Cell Biol, 189(3):527-39

http://www.ncbi.nlm.nih.gov/pubmed/20440001

2010

Plant Biology

Arabidopsis thaliana GYRB3 does not encode a DNA gyrase subunit

Evans-Roberts K M, Breuer C, Wall M K, Sugimoto-Shirasu K and Maxwell A

(2010) PLoS One, 5(3):e9899

http://www.ncbi.nlm.nih.gov/pubmed/20360860

2010

Cell Biology

LRCH proteins: a novel family of cytoskeletal regulators

Foussard H, Ferrer P, Valenti P, Polesello C, Carreno S and Payre F

(2010) PLoS One, 5(8):e12257

http://www.ncbi.nlm.nih.gov/pubmed/20805893

2010

Cell Biology

Kibra is a regulator of the Salvador/Warts/Hippo signaling network

Genevet A, Wehr M C, Brain R, Thompson B J and Tapon N

(2010) Dev Cell, 18(2):300-8

http://www.ncbi.nlm.nih.gov/pubmed/20159599

2010

Metabolism

Spatial regulation of cyclic AMP-Epac1 signaling in cell adhesion by ERM proteins

Gloerich M, Ponsioen B, Vliem M J, Zhang Z, Zhao J, Kooistra M R, Price L S, Ritsma L, Zwartkruis F J, Rehmann H, Jalink K and Bos J L

(2010) Mol Cell Biol, 30(22):5421-31

http://www.ncbi.nlm.nih.gov/pubmed/20855527

2010

Microbiology

The Listeria monocytogenes InlC protein interferes with innate immune responses by targeting the IkappaB kinase subunit IKKalpha

Gouin E, Adib-Conquy M, Balestrino D, Nahori MA, Villiers V, Colland F, Dramsi S, Dussurget O and Cossart P

(2010) Proc Natl Acad Sci U S A, 107(40):17333-8

http://www.ncbi.nlm.nih.gov/pubmed/20855622

2010

Plant Biology

Identification of a cellulose synthase-associated protein required for cellulose biosynthesis

Gu Y, Kaplinsky N, Bringmann M, Cobb A, Carroll A, Sampathkumar A, Baskin T I, Persson S and Somerville C R

(2010) Proc Natl Acad Sci U S A, 107(29):12866-71

http://www.ncbi.nlm.nih.gov/pubmed/20616083

2010

Cell Biology

Sip1, the Drosophila orthologue of EBP50/NHERF1, functions with the sterile 20 family kinase Slik to regulate Moesin activity

Hughes S C, Formstecher E and Fehon R G

(2010) J Cell Sci, 123(Pt 7):1099-107

http://www.ncbi.nlm.nih.gov/pubmed/20215404

2010

Microbiology

Pathogenic bacteria target NEDD8-conjugated cullins to hijack host-cell signaling pathways

Jubelin G, Taieb F, Duda D M, Hsu Y, Samba-Louaka A, Nobe R, Penary M, Watrin C, Nougayrède J P, Schulman B A, Stebbins C E and Oswald E

(2010) PLoS Pathog, (6), e1001128

http://www.ncbi.nlm.nih.gov/pubmed/20941356

2010

Microbiology

The Legionella pneumophila F-box protein Lpp2082 (AnkB) modulates ubiquitination of the host protein parvin B and promotes intracellular replication

Lomma M, Dervins-Ravault D, Rolando M, Nora T, Newton H J, Samson F M, Sahr T, Gomez-Valero L, Jules M, Hartland E L and Buchrieser C

(2010) Cell Microbiol, 12(9):1272-91

http://www.ncbi.nlm.nih.gov/pubmed/20345489

2010

Cell Biology

The SWI/SNF protein BAF60b is ubiquitinated through a signalling process involving Rac GTPase and the RING finger protein Unkempt

Lorès P, Visvikis O, Luna R, Lemichez E and Gacon G

(2010) FEBS J, 277(6):1453-64

http://www.ncbi.nlm.nih.gov/pubmed/20148946

2010

Cell Biology

Dysbindin promotes the post-endocytic sorting of G protein-coupled receptors to lysosomes

Marley A and von Zastrow M

(2010) PLoS One, 5(2):e9325

http://www.ncbi.nlm.nih.gov/pubmed/20174469

2010

Cell Biology

Arginine methylation in subunits of mammalian pre-mRNA cleavage factor I

Martin G, Ostareck-Lederer A, Chari A, Neuenkirchen N, Dettwiler S, Blank D, Rüegsegger U, Fischer U and Keller W

(2010) RNA, 16(8):1646-59

http://www.ncbi.nlm.nih.gov/pubmed/20562214

2010

Cancer Research

A divergent substrate-binding loop within the pro-oncogenic protein anterior gradient-2 forms a docking site for Reptin

Maslon MM, Hrstka R, Vojtesek B, Hupp TR

(2010) J Mol Biol, 404(3):418-38

http://www.ncbi.nlm.nih.gov/pubmed/20888340

2010

Plant Biology

A Host-Factor Interaction and Localization Map for a Plant-Adapted Rhabdovirus Implicates Cytoplasm-Tethered Transcription Activators in Cell-to-Cell Movement

Min B E, Martin K, Wang R, Tafelmeyer P, Bridges M and Goodin M

(2010) Mol Plant Microbe Interact, 23(11):1420-32

http://www.ncbi.nlm.nih.gov/pubmed/20923350

2010

Cell Biology

Rab and actomyosin-dependent fission of transport vesicles at the Golgi complex

Miserey-Lenkei S, Chalancon G, Bardin S, Formstecher E, Goud B and Echard A

(2010) Nat Cell Biol, (12), 645–654

http://www.ncbi.nlm.nih.gov/pubmed/20562865

2010

Plant Biology

Interaction of a plant pseudo-response regulator with a calmodulin-like protein

Perochon A, Dieterle S, Pouzet C, Aldon D, Galaud J P and Ranty B

(2010) Biochem Biophys Res Commun, (398), 747–751

http://www.ncbi.nlm.nih.gov/pubmed/20627089

2010

Neuroscience

Cytosolic protein interactions of the schizophrenia susceptibility gene dysbindin

Mead CL, Kuzyk M A, Moradian A, Wilson G M, Holt R A and Morin G B

(2010) J Neurochem, (113), 1491–1503

http://www.ncbi.nlm.nih.gov/pubmed/20236384

2010

Neuroscience

Disrupted-in-schizophrenia 1 (DISC1) plays essential roles in mitochondria in collaboration with Mitofilin

Park Y U, Jeong J, Lee H, Mun J Y, Kim J H, Lee J S, Nguyen M D, Han S S, Suh PG and Park S K

(2010) PNAS USA, (107), 17785–17790

http://www.ncbi.nlm.nih.gov/pubmed/20880836

2010

Neuroscience

Neuregulin-1 modulates the differentiation of neural stem cells in vitro trough an interaction with the Swi/Snf complex

Pirotte D, Wislet-Gendebien S, Cloes J M and Rogister B

(2010) Mol Cell Neurosci, (43), 72–80

http://www.ncbi.nlm.nih.gov/pubmed/19781646

2010

Virology

Attenuation of rabies virulence: takeover by the cytoplasmic domain of its envelope protein

Préhaud C, Wolff N, Terrien E, Lafage M, Mégret F, Babault N, Cordier F, Tan G S, Maitrepierre E, Ménager P, Chopy D, Hoos S, England P, Delepierre M, Schnell M J, Buc H and Lafon M

(2010) Sci Signal, (3), ra5

http://www.ncbi.nlm.nih.gov/pubmed/20086240

2010

Cancer Research

Differential regulation of HIC1 target genes by CtBP and NuRD, via an Acetylation/SUMOylation switch, in quiescent versus proliferating cells

van Rechem C, Boulay G, Pinte S, Stankovic-Valentin N, Guérardel C and Leprince D

(2010) Mol Cell Biol, (14), 4045 - 59

http://www.ncbi.nlm.nih.gov/pubmed/20547755

2010

Plant Biology

The nuclear interactor PYL8/RCAR3 of Fagus sylvatica FsPP2C1 is a positive regulator of abscisic acid signaling in seeds and stress

Saavedra X, Modrego A, Rodríguez D, González-García M P, Sanz L, Nicolás G and Lorenzo O

(2010) Plant Physiol, (152), 133–150

http://www.ncbi.nlm.nih.gov/pubmed/19889877

2010

Cell Biology

PtdIns(3)P controls cytokinesis through KIF13A-mediated recruitment of FYVE-CENT to the midbody

Sagona A P, Nezis I P, Pedersen N M, Liestøl K, Poulton J, Rusten T E, Skotheim R I, Raiborg C and Stenmark H

(2010) Nat Cell Biol, (12), 308 - 10

http://www.ncbi.nlm.nih.gov/pubmed/20208530

2010

Metabolism

Interactions with M-band titin and calpain 3 link myospryn (CMYA5) to tibial and limb-girdle muscular dystrophies

Sarparanta J, Blandin G, Charton K, Vihola A, Marchand S, Milic A, Hackman P, Ehler E, Richard I and Udd B

(2010) J Biol Chem, (285), 30304 - 15

http://www.ncbi.nlm.nih.gov/pubmed/20634290

2010

Development

Inhibition of the nuclear import of cubitus interruptus by roadkill in the presence of strong hedgehog signal

Seong KH, Akimaru H, Dai P, Nomura T, Okada M and Ishii S

(2010) PLoS One, (5), e15365

http://www.ncbi.nlm.nih.gov/pubmed/21179535

2010

Neuroscience

A feedback loop mediated by degradation of an inhibitor is required to initiate neuronal differentiation

Sobieszczuk D F, Poliakov A, Xu Q and Wilkinson D G

(2010) Genes Dev, (24), 206–218

http://www.ncbi.nlm.nih.gov/pubmed/20080956

2010

Cell Biology

Mammalian ALKBH8 possesses tRNA methyltransferase activity required for the biogenesis of multiple wobble uridine modifications implicated in translational decoding

Songe-Møller L, van den Born E, Leihne V, Vågbø C B, Kristoffersen T, Krokan H E, Kirpekar F, Falnes P Ø and Klungland A

(2010) Mol Cell Biol, (30), 1814–1827

http://www.ncbi.nlm.nih.gov/pubmed/20123966

2010

Virology

The SARS Coronavirus E Protein Interacts with PALS1 and Alters Tight Junction Formation and Epithelial Morphogenesis

Teoh K T, Siu Y L, Chan W L, Schlüter M A, Liu CJ, Peiris J S, Bruzzone R, Margolis B and Nal B

(2010) Mol Biol Cell, (21), 3838 - 3852

http://www.ncbi.nlm.nih.gov/pubmed/20861307

2010

Cancer Research

GAM/ZFp/ZNF512B is central to a gene sensor circuitry involving cell-cycle regulators, TGFbeta effectors, Drosha and microRNAs with opposite oncogenic potentials

Tili E, Michaille J J, Liu CG, Alder H, Taccioli C, Volinia S, Calin G A and Croce C M

(2010) Nucleic Acids Res, (Jul 17), 1 - 16

http://www.ncbi.nlm.nih.gov/pubmed/20639536

2010

Neuroscience

Biochemical and functional interaction of disrupted-in-schizophrenia 1 and amyloid precursor protein regulates neuronal migration during mammalian cortical development

Young-Pearse, T. L., Suth, S., Luth, E. S., Sawa, A. and Selkoe, D. J.

(2010) J Neurosci, (30), 10431–10440

http://www.ncbi.nlm.nih.gov/pubmed/20685985

2010

Cell Biology

Kibra functions as a tumor suppressor protein that regulates Hippo signaling in conjunction with Merlin and Expanded

Yu J, Zheng Y, Dong J, Klusza S, Deng W M and Pan D

(2010) Dev Cell, (18), 288–299

http://www.ncbi.nlm.nih.gov/pubmed/20159598

2010

Neuroscience

Disrupted-in-Schizophrenia 1 (DISC1) regulates spines of the glutamate synapse via Rac1

Hayashi-Takagi A, Takaki M, Graziane N, Seshadri S, Murdoch H, Dunlop A J, Makino Y, Seshadri A J, Ishizuka K, Srivastava D P, Xie Z, Baraban J M, Houslay M D, Tomoda T, Brandon N J, Kamiya A, Yan Z, Penzes P and Sawa A

(2010) Nat Neurosci, (13), 327–332

http://www.ncbi.nlm.nih.gov/pubmed/20139976

2010

Microbiology

Molecular interaction of flagellar export chaperone FliS and cochaperone HP1076 in Helicobacter pylori

Lam WW, Woo EJ, Kotaka M, Tam WK, Leung YC, Ling TK, Au SW

(2010) FASEB J., 24(10):4020-32

https://www.ncbi.nlm.nih.gov/pubmed/20581225

2010

Cell Biology

MidA is a putative methyltransferase that is required for mitochondrial complex I function

Carilla-Latorre S, Gallardo M E, Annesley S J, Calvo-Garrido J, Graña O, Accari S L, Smith P K, Valencia A, Garesse R, Fisher P R and Escalante R

(2010) J Cell Sci, (123), 1674–1683

http://www.ncbi.nlm.nih.gov/pubmed/20406883

2010

Immunology

Characterization of single chain antibody targets through yeast two hybrid

Vielemeyer O, Nizak C, Jimenez A J, Echard A, Goud B, Camonis J, Rain J C and Perez F

(2010) BMC Biotechnol, (10), 59

http://www.ncbi.nlm.nih.gov/pubmed/20727208

2009

Virology

Lens epithelium-derived growth factor/p75 interacts with the transposase-derived DDE domain of PogZ

Bartholomeeusen K, Christ F, Hendrix J, Rain J-C, Emiliani S, Benarous R, Debyser Z, Gijsbers R and Rijck J D

(2009) J Biol Chem, (284), 11467–11477

http://www.ncbi.nlm.nih.gov/pubmed/19244240

2009

Cancer Research

Inhibition of the Wnt/beta-catenin pathway by the WWOX tumor suppressor protein

Bouteille N, Driouch K, Hage P E, Sin S, Formstecher E, Camonis J, Lidereau R and Lallemand F

(2009) Oncogene, (28), 2569–2580

http://www.ncbi.nlm.nih.gov/pubmed/19465938

2009

Neuroscience

DISC1 regulates new neuron development in the adult brain via modulation of AKT-mTOR signaling through KIAA1212

Kim J Y, Duan X, Liu C Y, Jang M-H, Guo J U, Pow-anpongkul N, Kang E, Song H and Ming G-l

(2009) Neuron, (63), 761–773

http://www.ncbi.nlm.nih.gov/pubmed/19778506

2009

Neuroscience

An E3 ubiquitin ligase, Really Interesting New Gene (RING) Finger 41, is a candidate gene for anxiety-like behavior and beta-carboline-induced seizures

Kim S, Zhang S, Choi K H, Reister R, Do C, Baykiz A F and Gershenfeld H K

(2009) Biol Psychiatry, (65), 425–431

http://www.ncbi.nlm.nih.gov/pubmed/18986647

2009

Cell Biology

Mst4 and Ezrin induce brush borders downstream of the Lkb1/Strad/Mo25 polarization complex

ten Klooster J P, Jansen M, Yuan J, Oorschot V, Begthel H, Giacomo V D, Colland F, de Koning J, Maurice M M, Hornbeck P and Clevers H

(2009) Dev Cell, (16), 551–562

http://www.ncbi.nlm.nih.gov/pubmed/19386264

2009

Cancer Research

Functional genomic screens identify CINP as a genome maintenance protein

Lovejoy C A, Xu X, Bansbach C E, Glick G G, Zhao R, Ye F, Sirbu B M, Titus L C, Shyr Y and Cortez D

(2009) PNAS, (106), 19304–19309

http://www.ncbi.nlm.nih.gov/pubmed/19889979

2009

Cancer Research

Calcineurin a-binding protein, a novel modulator of the calcineurin-nuclear factor of activated T-cell signaling pathway, is overexpressed in wilms' tumors and promotes cell migration

Nguyen A H, Béland M, Gaitan Y and Bouchard M

(2009) Mol Cancer Res, (7), 821–831

http://www.ncbi.nlm.nih.gov/pubmed/19531566

2009

Cancer Research

HIC1 interacts with a specific subunit of SWI/SNF complexes, ARID1A/BAF250A

van Rechem C, Boulay G and Leprince D

(2009) Biochem Biophys Res Commun, (385), 586–590

http://www.ncbi.nlm.nih.gov/pubmed/19486893

2009

Cancer Research

The antiapoptotic protein AAC-11 interacts with and regulates Acinus-mediated DNA fragmentation

Rigou P, Piddubnyak V, Faye A, Rain J-C, Michel L, Calvo F and Poyet J-L

(2009) EMBO J, (28), 1576–1588

http://www.ncbi.nlm.nih.gov/pubmed/19387494

2009

Cell Biology

An aPKC-exocyst complex controls paxillin phosphorylation and migration through localised JNK1 activation

Rosse C, Formstecher E, Boeckeler K, Zhao Y, Kremerskothen J, White M D, Camonis J H and Parker P J

(2009) PLoS Biol, (7), e1000235

http://www.ncbi.nlm.nih.gov/pubmed/19885391

2009

Neuroscience

Myosin VI is required for the proper maturation and function of inner hair cell ribbon synapses

Roux I, Hosie S, Johnson SL, Bahloul A, Cayet N, Nouaille S, Kros CJ, Petit C, Safieddine S

(2009) Hum Mol Genet., 18(23):4615-28

https://www.ncbi.nlm.nih.gov/pubmed/19744958

2009

Cell Biology

Udu deficiency activates DNA damage checkpoint

Lim C-H, Chong S-W and Jiang Y-J

(2009) Mol Biol Cell, (20), 4183–4193.

http://www.ncbi.nlm.nih.gov/pubmed?term=19656853

2009

Cell Biology

Mint3 enhances the activity of hypoxia-inducible factor-1 (HIF-1) in macrophages by suppressing the activity of factor inhibiting HIF-1

Sakamoto T, Seiki M

(2009) J Biol Chem., 284(44):30350-9

https://www.ncbi.nlm.nih.gov/pubmed/19726677

2009

Cancer Research

The annealing helicase SMARCAL1 maintains genome integrity at stalled replication forks

Bansbach CE, Bétous R, Lovejoy CA, Glick GG, Cortez D.

(2009) Genes Dev, 23(20):2405-14

http://www.ncbi.nlm.nih.gov/pubmed/19793861

2009

Immunology

A function for AAMP in Nod2-mediated NF-kappaB activation

Bielig H, Zurek B, Kutsch A, Menning M, Philpott DJ, Sansonetti PJ, Kufer TA.

(2009) Mol Immunol, 46(13):2647-54

http://www.ncbi.nlm.nih.gov/pubmed/19535145

2009

Cell Biology

Human BAHD1 promotes heterochromatic gene silencing

Bierne H, Tham TN, Batsche E, Dumay A, Leguillou M, Kernéis-Golsteyn S, Regnault B, Seeler JS, Muchardt C, Feunteun J, Cossart P.

(2009) PNAS, 106(33):13826-31

http://www.ncbi.nlm.nih.gov/pubmed/19666599

2009

Neuroscience

Role of Varp, a Rab21 exchange factor and TI-VAMP/VAMP7 partner, in neurite growth

Burgo A, Sotirakis E, Simmler MC, Verraes A, Chamot C, Simpson JC, Lanzetti L, Proux-Gillardeaux V, Galli T.

(2009) EMBO Rep,10(10):1117-24.

http://www.ncbi.nlm.nih.gov/pubmed/19745841

2009

Cell Biology

Nesprin-2 interacts with meckelin and mediates ciliogenesis via remodelling of the actin cytoskeleton

Dawe HR, Adams M, Wheway G, Szymanska K, Logan CV, Noegel AA, Gull K, Johnson CA.

(2009) J Cell Sci, 122(15):2716-26

www.ncbi.nlm.nih.gov/pubmed/19596800

2009

Cell Biology

A key role for Ctf4 in coupling the MCM2-7 helicase to DNA polymerase alpha within the eukaryotic replisome

Gambus A, van Deursen F, Polychronopoulos D, Foltman M, Jones RC, Edmondson RD, Calzada A, Labib K.

(2009) EMBO J, 28(19):2992-3004

http://www.ncbi.nlm.nih.gov/pubmed/19661920

2009

Cell Biology

Physical and genetic interactions of yeast Cwc21p, an ortholog of human SRm300/SRRM2, suggest a role at the catalytic center of the spliceosome

Grainger RJ, Barrass JD, Jacquier A, Rain JC, Beggs JD.

(2009) RNA, 15(12):2161-73

http://www.ncbi.nlm.nih.gov/pubmed/19854871

2009

Neuroscience

GPR50 interacts with neuronal NOGO-A and affects neurite outgrowth

Grünewald E, Kinnell HL, Porteous DJ, Thomson PA.

(2009) Mol Cell Neurosci, 42(4):363-71

http://www.ncbi.nlm.nih.gov/pubmed/19699797

2009

Cell Biology

Drosophila GoLoco-protein Pins is a target of Galpha(o)-mediated G protein-coupled receptor signaling.

Kopein D, Katanaev VL.

(2009), Mol Biol Cell, 20(17):3865-77

http://www.ncbi.nlm.nih.gov/pubmed/19570914

2009

Cancer Research

MSK2 inhibits p53 activity in the absence of stress

Llanos S, Cuadrado A, Serrano M.

(2009) Sci Signal, 2(89):ra57

http://www.ncbi.nlm.nih.gov/pubmed/19797274

2009

Cell Biology

The membrane-tubulating potential of amphiphysin 2/BIN1 is dependent on the microtubule-binding cytoplasmic linker protein 170 (CLIP-170)

Meunier B, Quaranta M, Daviet L, Hatzoglou A, Leprince C.

(2009) Eur J Cell Biol, 88(2):91-102

http://www.ncbi.nlm.nih.gov/pubmed/19004523

2009

Cell Biology

ARF6 Interacts with JIP4 to control a motor switch mechanism regulating endosome traffic in cytokinesis

Montagnac G, Sibarita JB, Loubéry S, Daviet L, Romao M, Raposo G, Chavrier P.

(2009) Curr Biol, 19(3):184-95

http://www.ncbi.nlm.nih.gov/pubmed/19211056

2009

Cell Biology

Septins regulate bacterial entry into host cells

Mostowy S, Nam Tham T, Danckaert A, Guadagnini S, Boisson-Dupuis S, Pizarro-Cerdá J, Cossart P.

(2009) PLoS One, 4(1):e4196

http://www.ncbi.nlm.nih.gov/pubmed/19145258

2009

Virology

Identification of TRIM23 as a cofactor involved in the regulation of NF-kappaB by human cytomegalovirus

Poole E, Groves I, MacDonald A, Pang Y, Alcami A, Sinclair J.

(2009) J Virol, 83(8):3581-90

http://www.ncbi.nlm.nih.gov/pubmed/19176615

2009

Cell Biology

Ribosomal protein S7 is both a regulator and a substrate of MDM2

Zhu Y, Poyurovsky MV, Li Y, Biderman L, Stahl J, Jacq X, Prives C

(2009) Mol Cell., 35(3):316-26

https://www.ncbi.nlm.nih.gov/pubmed/19683495

2009

Cell Biology

hPOC5 is a centrin-binding protein required for assembly of full-length centrioles

Azimzadeh J, Hergert P, Delouvée A, Euteneuer U, Formstecher E, Khodjakov A and Bornens M

(2009) J Cell Biol, (185), 101–114

http://www.ncbi.nlm.nih.gov/pubmed/19349582

2009

Parasitology

Functional characterization and protein-protein interactions of trypanosome splicing factors U2AF35, U2AF65 and SF1

Vazquez MP, Mualem D, Bercovich N, Stern MZ, Nyambega B, Barda O, Nasiga D, Gupta SK, Michaeli S, Levin MJ

(2009) Mol Biochem Parasitol., 164(2):137-46

https://www.ncbi.nlm.nih.gov/pubmed/19320097

2009

Cell Biology

The ubiquitin-editing enzyme A20 requires RNF11 to downregulate NF-kappaB signalling

Shembade N, Parvatiyar K, Harhaj NS, Harhaj EW

(2009) EMBO J., 28(5):513-22

https://www.ncbi.nlm.nih.gov/pubmed/19131965

2009

Cell Biology

DLG1/SAP97 modulates transforming growth factor alpha bioavailability

Surena AL, de Faria GP, Studler JM, Peiretti F, Pidoux M, Camonis J, Chneiweiss H, Formstecher E, Junier MP

(2009) Biochim Biophys Acta., 1793(2):264-72

https://www.ncbi.nlm.nih.gov/pubmed/18930083

2009

Neuroscience

Pro-apoptotic protein-protein interactions of the extended N-AChE terminus

Toiber D, Greenberg DS, Soreq H

(2009) J Neural Transm., 116(11):1435-42

https://www.ncbi.nlm.nih.gov/pubmed/19533292

2009

Cell Biology

Regulator of G-protein signaling 14 (RGS14) is a selective H-Ras effector

Willard FS, Willard MD, Kimple AJ, Soundararajan M, Oestreich EA, Li X, Sowa NA, Kimple RJ, Doyle DA, Der CJ, Zylka MJ, Snider WD, Siderovski DP

(2009) PLoS One., 4(3):e4884.

https://www.ncbi.nlm.nih.gov/pubmed/19319189

2008

Cancer Research

The interaction of the SRA domain of ICBP90 with a novel domain of DNMT1 is involved in the regulation of VEGF gene expression

Achour, M., Jacq, X., Rondé, P., Alhosin, M., Charlot, C., Chataigneau, T., Jeanblanc, M., Macaluso, M., Giordano, A., Hughes, A. D., Schini-Kerth, V. B. and Bronner, C.

(2008) Oncogene, (27), 2187–2197

http://www.ncbi.nlm.nih.gov/pubmed/17934516

2008

Cell Biology

Identification of novel Smad2 and Smad3 associated proteins in response to TGF-beta1

Brown, K. A., Ham, A.-J. L., Clark, C. N., Meller, N., Law, B. K., Chytil, A., Cheng, N., Pietenpol, J. A. and Moses, H. L.

(2008) J Cell Biochem, (105), 596–611

http://www.ncbi.nlm.nih.gov/pubmed/18729074

2008

Neuroscience

Targeting of the 5-HT1A serotonin receptor to neuronal dendrites is mediated by Yif1B

Carrel D, Masson J, Awabdh S A, Capra C B, Lenkei Z, Hamon M, Emerit M B and Darmon M

(2008) J Neurosci, (28), 8063–8073

http://www.ncbi.nlm.nih.gov/pubmed/18685031

2008

Cell Biology

Role of HRB in clathrin-dependent endocytosis

Chaineau M, Danglot L, Proux-Gillardeaux V and Galli T

(2008) J Biol Chem, (283), 34365–34373

http://www.ncbi.nlm.nih.gov/pubmed/18819912

2008

Virology

Transportin-SR2 imports HIV into the nucleus

Christ F, Thys W, Rijck J D, Gijsbers R, Albanese A, Arosio D, Emiliani S, Rain J-C, Benarous R, Cereseto A and Debyser Z

(2008) Curr Biol, (18), 1192–1202

http://www.ncbi.nlm.nih.gov/pubmed/18722123

2008

Cancer Research

Identification of PCTA, a TGIF antagonist that promotes PML function in TGF-beta signalling

Faresse N, Colland F, Ferrand N, Prunier C, Bourgeade M-F and Atfi A

(2008) EMBO J, (27), 1804–1815

http://www.ncbi.nlm.nih.gov/pubmed/18511908

2008

Cell Biology

The PDZ protein mupp1 promotes Gi coupling and signaling of the Mt1 melatonin receptor

Guillaume J-L, Daulat A M, Maurice P, Levoye A, Migaud M, Brydon L, Malpaux B, Borg-Capra C and Jockers R

(2008) J Biol Chem, (283), 16762–16771

http://www.ncbi.nlm.nih.gov/pubmed/18378672

2008

Cell Biology

ADAMTSL2 mutations in geleophysic dysplasia demonstrate a role for ADAMTS-like proteins in TGFβ bioavailability regulation

Le Goff C, Morice-Picard F, Dagoneau N, Wang L W, Perrot C, Crow, Y J, Bauer F, Flori E, Prost-Squarcioni C, Krakow D, Ge G, Greenspan D S, Bonnet D, Merrer M L, Munnich A, Apte S S and Cormier-Daire V

(2008) Nat Genet, (40), 1119–1123

http://www.ncbi.nlm.nih.gov/pubmed/18677313

2008

Virology

HuR interacts with human immunodeficiency virus type 1 reverse transcriptase, and modulates reverse transcription in infected cells

Lemay J, Maidou-Peindara P, Bader T, Ennifar E, Rain J-C, Benarous R and Liu L X

(2008) Retrovirology, (5), 47

http://www.ncbi.nlm.nih.gov/pubmed/18544151

2008

Virology

AKAP149 binds to HIV-1 reverse transcriptase and is involved in the reverse transcription

Lemay J, Maidou-Peindara P, Cancio R, Ennifar E, Coadou G, Maga G, Rain J-C, Benarous R and Liu L X

(2008) J Mol Biol, (383), 783–796

http://www.ncbi.nlm.nih.gov/pubmed/18786546

2008

Cell Biology

Modification of Drosophila p53 by SUMO modulates its transactivation and pro-apoptotic functions

Mauri F, McNamee L M, Lunardi A, Chiacchiera F, Sal G D, Brodsky M H and Collavin L

(2008) J Biol Chem, (283), 20848–20856

http://www.ncbi.nlm.nih.gov/pubmed/18492669

2008

Cell Biology

Spatial recruitment and activation of the Fes kinase by ezrin promotes HGF-induced cell scattering

Naba A, Reverdy C, Louvard D and Arpin M

(2008) EMBO J, (27), 38–50

http://www.ncbi.nlm.nih.gov/pubmed/18046454

2008

Neuroscience

Epileptic and developmental disorders of the speech cortex: ligand/receptor interaction of wild-type and mutant SRPX2 with the plasminogen activator receptor uPAR

Royer-Zemmour B, Ponsole-Lenfant M, Gara H, Roll P, Lévêque C, Massacrier A, Ferracci G, Cillario J, Robaglia-Schlupp A, Vincentelli R, Cau P and Szepetowski P

(2008) Hum Mol Genet, (17), 3617–3630

http://www.ncbi.nlm.nih.gov/pubmed/18718938

2008

Microbiology

The Listeria monocytogenes virulence factor InlJ is specifically expressed in vivo and behaves as an adhesin

Sabet C, Toledo-Arana A, Personnic N, Lecuit M, Dubrac S, Poupel O, Gouin E, Nahori M-A, Cossart P and Bierne H

(2008) Infect Immun, (76), 1368–13

http://www.ncbi.nlm.nih.gov/pubmed/18227172

2008

Cell Biology

The interaction of IQGAP1 with the exocyst complex is required for tumor cell invasion downstream of Cdc42 and RhoA

Sakurai-Yageta M, Recchi C, Dez G L, Sibarita J-B, Daviet L, Camonis J, D'Souza-Schorey C and Chavrier P

(2008) J Cell Biol, (181), 985–998

http://www.ncbi.nlm.nih.gov/pubmed/18541705

2007

Cell Biology

The disintegrin and metalloproteinase ADAM12 contributes to TGF-beta signaling through interaction with the type II receptor

Atfi, A., Dumont, E., Colland, F., Bonnier, D., L'helgoualc'h, A., Prunier, C., Ferrand, N., Clément, B., Wewer, U. M. and Théret, N.

(2007) J Cell Biol, (178), 201–208

http://www.ncbi.nlm.nih.gov/pubmed/17620406

2007

Virology

Identification of the LEDGF/p75 binding site in HIV-1 integrase

Busschots K, Voet A, Maeyer M D, Rain J-C, Emiliani S, Benarous R, Desender L, Debyser Z and Christ F

(2007) J Mol Biol, (365), 1480–1492

http://www.ncbi.nlm.nih.gov/pubmed/17137594

2007

Neuroscience

Disrupted in Schizophrenia 1 Interactome: evidence for the close connectivity of risk genes and a potential synaptic basis for schizophrenia

Camargo LM, Collura V, Rain JC, Mizuguchi K, Hermjakob H, Kerrien S, Bonnert T P, Whiting P J and Brandon N J

(2007) Mol Psychiatry, (12), 74–86

http://www.ncbi.nlm.nih.gov/pubmed/17043677

2007

Cell Biology

Interaction of ezrin with the novel guanine nucleotide exchange factor PLEKHG6 promotes RhoG-dependent apical cytoskeleton rearrangements in epithelial cells

D'Angelo R, Aresta S, Blangy A, Maestro L D, Louvard D and Arpin M

(2007) Mol Biol Cell, (18), 4780–4793

http://www.ncbi.nlm.nih.gov/pubmed/17881735

2007

Cell Biology

The Hsp40 chaperone Jjj1 is required for the nucleo-cytoplasmic recycling of preribosomal factors in Saccharomyces ce

Demoinet E, Jacquier A, Lutfalla G and Fromont-Racine M

(2007) RNA, (13), 1570–1581

http://www.ncbi.nlm.nih.gov/pubmed/17652132

2007

Development

Spermatocyte cytokinesis requires rapid membrane addition mediated by ARF6 on central spindle recycling endosomes

Dyer N, Rebollo E, Domínguez P, Elkhatib N, Chavrier P, Daviet L, González C and González-Gaitán M

(2007) Development, (134), 4437–4447

http://www.ncbi.nlm.nih.gov/pubmed/18039970

2007

Cancer Research

RASSF1C, an isoform of the tumor suppressor RASSF1A, promotes the accumulation of beta-catenin by interacting with betaTrCP

Estrabaud E, Lassot I, Blot G, Rouzic E L, Tanchou V, Quemeneur E, Daviet L, Margottin-Goguet F and Benarous R

(2007) Cancer Res, (67), 1054–1061

http://www.ncbi.nlm.nih.gov/pubmed/17283138

2007

Development

The UCS factor Steif/Unc-45b interacts with the heat shock protein Hsp90a during myofibrillogenesis

Etard C, Behra M, Fischer N, Hutcheson D, Geisler R and Strähle U

(2007) Dev Biol, (308), 133–143

http://www.ncbi.nlm.nih.gov/pubmed/17586488

2007

Cell Biology

Shroom2, a myosin-VIIa- and actin-binding protein, directly interacts with ZO-1 at tight junctions

Etournay R, Zwaenepoel I, Perfettini I, Legrain P, Petit C and El-Amraoui A

(2007) J Cell Sci, (120), 2838–2850

http://www.ncbi.nlm.nih.gov/pubmed/17666436

2007

Neuroscience

Interaction between telencephalin and ERM family proteins mediates dendritic filopodia formation

Furutani Y, Matsuno H, Kawasaki M, Sasaki T, Mori K and Yoshihara Y

(2007) J Neurosci, (27), 8866–8876

http://www.ncbi.nlm.nih.gov/pubmed/17699668

2007

Development

Rab6 and the secretory pathway affect oocyte polarity in Drosophila

Januschke J, Nicolas E, Compagnon J, Formstecher E, Goud B and Guichet A

(2007) Development, (134), 3419–3425

http://www.ncbi.nlm.nih.gov/pubmed/17827179

2007

Cancer Research

Functional and physical interaction between Bcl-X(L) and a BH3-like domain in Beclin-1

Maiuri M C, Toumelin G L, Criollo A, Rain J-C, Gautier F, Juin P, Tasdemir E, Pierron G, Troulinaki K, Tavernarakis N, Hickman J A, Geneste O and Kroemer G

(2007) EMBO J., (26), 2527–2539

http://www.ncbi.nlm.nih.gov/pubmed/17446862

2007

Development

The last 59 amino acids of Smoothened cytoplasmic tail directly bind the protein kinase Fused and negatively regulate the Hedgehog pathway

Malpel S, Claret S, Sanial M, Brigui A, Piolot T, Daviet L, Martin-Lannerée S and Plessis A

(2007) Dev Biol, (303), 121–133

http://www.ncbi.nlm.nih.gov/pubmed/17182028

2007

Virology

von Hippel Lindau binding protein 1-mediated degradation of integrase affects HIV-1 gene expression at a postintegration step

Mousnier A, Kubat N, Massias-Simon A, Ségéral E, Rain J-C, Benarous R, Emiliani S and Dargemont C

(2007) Proc Natl Acad Sci U S A, (104), 13615–13620

http://www.ncbi.nlm.nih.gov/pubmed/17698809

2007

Cell Biology

Positive regulation of apoptosis by HCA66, a new Apaf-1 interacting protein, and its putative role in the physiopathology of NF1 microdeletion syndrome patients

Piddubnyak V, Rigou P, Michel L, Rain J-C, Geneste O, Wolkenstein P, Vidaud D, Hickman J A, Mauviel A and Poyet J-L

(2007) Cell Death Differ, (14), 1222–1233

http://www.ncbi.nlm.nih.gov/pubmed/17380155

2007

Cell Biology

The PI3K effector Arap3 interacts with the PI(3,4,5)P3 phosphatase SHIP2 in a SAM domain-dependent manner

Raaijmakers J H, Deneubourg L, Rehmann H, de Koning J, Zhang Z, Krugmann S, Erneux C and Bos J L

(2007) Cell Signal, (19), 1249–1257

http://www.ncbi.nlm.nih.gov/pubmed/17314030

2007

Virology

HIV1 Vpr arrests the cell cycle by recruiting DCAF1/VprBP, a receptor of the Cul4-DDB1 ubiquitin ligase

Le Rouzic E, Belaïdouni N, Estrabaud E, Morel M, Rain J-C, Transy C and Margottin-Goguet F

(2007) Cell Cycle, (6), 182–188

http://www.ncbi.nlm.nih.gov/pubmed/17314515

2007

Cell Biology

Selective role for RGS12 as a Ras/Raf/MEK scaffold in nerve growth factor-mediated differentiation

Willard M D, Willard F S, Li X, Cappell S D, Snider W D and Siderovski D P

(2007) EMBO J, (26), 2029–2040

http://www.ncbi.nlm.nih.gov/pubmed/17380122

2007

Cell Biology

The inhibition of polo kinase by matrimony maintains G2 arrest in the meiotic cell cycle

Xiang Y, Takeo S, Florens L, Hughes S E, Huo L-J, Gilliland W D, Swanson S K, Teeter K, Schwartz J W, Washburn M P, Jaspersen S L and Hawley R S

(2007) PLoS Biol, (5), e323

http://www.ncbi.nlm.nih.gov/pubmed/18052611

2007

Cell Biology

The gamma-core motif correlates with antimicrobial activity in cysteine-containing kaliocin-1 originating from transferrins

Yount N Y, Andrés M T, Fierro J F and Yeaman M R

(2007) Biochim Biophys Acta, (1768), 2862–2872

http://www.ncbi.nlm.nih.gov/pubmed/17916323

2007

Cell Biology

The human Nup107-160 nuclear pore subcomplex contributes to proper kinetochore functions

Zuccolo M, Alves A, Galy V, Bolhy S, Formstecher E, Racine V, Sibarita J-B, Fukagawa T, Shiekhattar R, Yen T and Doye V

(2007) EMBO J, (26), 1853–1864

http://www.ncbi.nlm.nih.gov/pubmed/17363900

2006

Cell Biology

Nsa2 is an unstable, conserved factor required for the maturation of 27 SB pre-rRNAs

Lebreton A, Saveanu C, Decourty L, Jacquier A, Fromont-Racine M

(2006) J Biol Chem., 281(37):27099-108

https://www.ncbi.nlm.nih.gov/pubmed/16861225

2006

Development

The Ral/exocyst effector complex counters c-Jun N-terminal kinase-dependent apoptosis in Drosophila melanogaster

Balakireva M, Rossé C, Langevin J, chen Chien Y, Gho M, Gonzy-Treboul G, Voegeling-Lemaire S, Aresta S, Lepesant J-A, Bellaiche Y, White M and Camonis J

(2006) Mol Cell Biol, (26), 8953–8963

http://www.ncbi.nlm.nih.gov/pubmed/17000765

2006

Cell Biology

FOXO4 transcriptional activity is regulated by monoubiquitination and USP7/HAUSP

van der Horst A, de Vries-Smits A M, Brenkman A B, van Triest M H, van den Broek N, Colland F, Maurice M M and Burgering B M

(2006) Nat Cell Biol, (8), 1064–1073

http://www.ncbi.nlm.nih.gov/pubmed/16964248

2006

Microbiology

Role for erbin in bacterial activation of Nod2

Kufer T A, Kremmer E, Banks D J and Philpott DJ

(2006) Infect Immun, (74), 3115–3124

http://www.ncbi.nlm.nih.gov/pubmed/16714539

2006

Development

The C-terminal tail of the Hedgehog receptor Patched regulates both localization and turnover

Lu X, Liu S and Kornberg T B

(2006) Genes Dev, (20), 2539–2551

http://www.ncbi.nlm.nih.gov/pubmed/16980583

2006

Cancer Research

LMO4 can interact with Smad proteins and modulate transforming growth factor-beta signaling in epithelial cells

Lu Z, Lam K S, Wang N, Xu X, Cortes M and Andersen B

(2006) Oncogene, (25), 2920–2930

http://www.ncbi.nlm.nih.gov/pubmed/16331278

2006

Cell Biology

A functional network involved in the recycling of nucleocytoplasmic pre-60S factors

Lebreton A, Saveanu C, Decourty L, Rain JC, Jacquier A, Fromont-Racine M

(2006) J Cell Biol., 173(3):349-60

https://www.ncbi.nlm.nih.gov/pubmed/16651379

2006

Virology

Inhibition of early steps of HIV-1 replication by SNF5/Ini1

Maroun M, Delelis O, Coadou G, Bader T, Ségéral E, Mbemba G, Petit C, Sonigo P, Rain J-C, Mouscadet J-F, Benarous R and Emiliani S

(2006) J Biol Chem, (281), 22736–22743

http://www.ncbi.nlm.nih.gov/pubmed/16772295

2006

Development

Interaction between Polo and BicD proteins links oocyte determination and meiosis control in Drosophila

Mirouse V, Formstecher E and Couderc J-L

(2006) Development, (133), 4005–4013

http://www.ncbi.nlm.nih.gov/pubmed/16971474

2006

Metabolism

HSPA12B is predominantly expressed in endothelial cells and required for angiogenesis

Steagall R J, Rusiñol A E, Truong Q A and Han Z

(2006) Arterioscler Thromb Vasc Biol, (26), 2012–2018

http://www.ncbi.nlm.nih.gov/pubmed/16825593

2006

Neuroscience

Interaction between the vesicular glutamate transporter type 1 and endophilin A1, a protein essential for endocytosis

Vinatier J, Herzog E, Plamont M-A, Wojcik S M, Schmidt A, Brose N, Daviet L, Mestikawy S E and Giros B

(2006) J Neurochem, (97), 1111–1125

http://www.ncbi.nlm.nih.gov/pubmed/16606361

2005

Neuroscience

Myosin XVa and whirlin, two deafness gene products required for hair bundle growth, are located at the stereocilia tips and interact directly

Delprat B, Michel V, Goodyear R, Yamasaki Y, Michalski N, El-Amraoui A, Perfettini I, Legrain P, Richardson G, Hardelin J-P and Petit C

(2005) Hum Mol Genet, (14), 401–410

http://www.ncbi.nlm.nih.gov/pubmed/15590698

2005

Virology

Integrase mutants defective for interaction with LEDGF/p75 are impaired in chromosome tethering and HIV-1 replication

Emiliani S, Mousnier A, Busschots K, Maroun M, Maele B V, Tempé D, Vandekerckhove L, Moisant F, Ben-Slama L, Witvrouw M, Christ F, Rain J-C, Dargemont C, Debyser Z and Benarous R

(2005) J Biol Chem, (280), 25517–25523

http://www.ncbi.nlm.nih.gov/pubmed/15855167

2005

Neuroscience

PHR1, an integral membrane protein of the inner ear sensory cells, directly interacts with myosin 1c and myosin VIIa

Etournay R, El-Amraoui A, Bahloul A, Blanchard S, Roux I, Pézeron G, Michalski N, Daviet L, Hardelin J-P, Legrain P and Petit C

(2005) J. Cell Sci., (118), 2891–2899

http://www.ncbi.nlm.nih.gov/pubmed/15976448

2005

Cancer Research

Oncogenic tyrosine kinase of malignant hemopathy targets the centrosome

Delaval B, Létard S, Lelièvre H, Chevrier V, Daviet L, Dubreuil P, Birnbaum D

(2005) Cancer Res., 65(16):7231-40

https://www.ncbi.nlm.nih.gov/pubmed/16103074

2005

Cancer Research

Protein interaction mapping: a Drosophila case study

Formstecher E, Aresta S, Collura V, Hamburger A, Meil A, Trehin A, Reverdy C, Betin V, Maire S, Brun C, Jacq B, Arpin M, Bellaiche Y, Bellusci S, Benaroch P, Bornens M, Chanet R, Chavrier P, Delattre O, Doye V, Fehon R, Faye G, Galli T, Girault J-A, Goud B, de Gunzburg J, Johannes L, Junier M-P, Mirouse V, Mukherjee A, Papadopoulo D, Perez F, Plessis A, Rossé C, Saule S, Stoppa-Lyonnet D, Vincent A, White M, Legrain P, Wojcik J, Camonis J and Daviet L

(2005) Genome Res., (15), 376–384

http://www.ncbi.nlm.nih.gov/pubmed/15710747

2005

Microbiology

The Shigella flexneri effector OspG interferes with innate immune responses by targeting ubiquitin-conjugating enzymes

Kim D W, Lenzen G, Page A-L, Legrain P, Sansonetti P J and Parsot C

(2005) Proc Natl Acad Sci U S A, (102), 14046–14051

http://www.ncbi.nlm.nih.gov/pubmed/16162672

2005

Cell Biology

RNA degradation by the exosome is promoted by a nuclear polyadenylation complex

LaCava J, Houseley J, Saveanu C, Petfalski E, Thompson E, Jacquier A and Tollervey D

(2005) Cell, (121), 713–724

http://www.ncbi.nlm.nih.gov/pubmed/15935758

2005

Development

Drosophila exocyst components Sec5, Sec6, and Sec15 regulate DE-Cadherin trafficking from recycling endosomes to the plasma membrane

Langevin, J., Morgan, M. J., Sibarita, J.-B., Aresta, S., Murthy, M., Schwarz, T., Camonis, J. and Bellaïche, Y.

(2005) Dev Cell, (9), 365–376

http://www.ncbi.nlm.nih.gov/pubmed/16224820

2005

Neuroscience

DISC1 and PDE4B are interacting genetic factors in schizophrenia that regulate cAMP signaling

Millar J K, Pickard B S, Mackie S, James R, Christie S, Buchanan S R, Malloy M P, Chubb J E, Huston E, Baillie G S, Thomson P A, Hill E V, Brandon N J, Rain J-C, Camargo L M, Whiting P J, Houslay M D, Blackwood D H, Muir W J and Porteous D J

(2005) Science, (310), 1187–1191

http://www.ncbi.nlm.nih.gov/pubmed/16293762

2005

Development

Regulation of Notch signalling by non-visual beta-arrestin

Mukherjee A, Veraksa A, Bauer A, Rosse C, Camonis J and Artavanis-Tsakonas S

(2005) Nat Cell Biol, (7), 1191–1201

http://www.ncbi.nlm.nih.gov/pubmed/16284625

2005

Microbiology

Stable accumulation of sigma54 in Helicobacter pylori requires the novel protein HP0958

Pereira L and Hoover T R.

(2005) J Bacteriol, (187), 4463–4469

http://www.ncbi.nlm.nih.gov/pubmed/15968056

2005

Microbiology

HP0958 is an essential motility gene in Helicobacter pylori

Ryan K A, Karim N, Worku M, Moore S A, Penn C W and O'Toole P W

(2005) FEMS Microbiol Lett, (248), 47–55

http://www.ncbi.nlm.nih.gov/pubmed/15946806

2005

Microbiology

ARHGAP10 is necessary for alpha-catenin recruitment at adherens junctions and for Listeria invasion

Sousa, S., Cabanes, D., Archambaud, C., Colland, F., Lemichez, E., Popoff, M., Boisson-Dupuis, S., Gouin, E., Lecuit, M., Legrain, P. and Cossart, P.

(2005) Nat Cell Biol, (7), 954–960

http://www.ncbi.nlm.nih.gov/pubmed/16184169

2005

Cell Biology

A new yeast poly(A) polymerase complex involved in RNA quality control

Vanácová S, Wolf J, Martin G, Blank D, Dettwiler S, Friedlein A, Langen H, Keith G and Keller W

(2005) PLoS Biol., (3), e189

http://www.ncbi.nlm.nih.gov/pubmed/15828860

2004

Neuroscience

Disrupted in Schizophrenia 1 and Nudel form a neurodevelopmentally regulated protein complex: implications for schizophrenia and other major neurological disorders

Brandon N J, Handford E J, Schurov I, Rain J-C, Pelling M, Duran-Jimeniz B, Camargo L M, Oliver K R, Beher D, Shearman M S and Whiting P J

(2004) Mol. Cell Neurosci., (25), 42–55

http://www.ncbi.nlm.nih.gov/pubmed/14962739

2004

Cell Biology

Functional proteomics mapping of a human signaling pathway

Colland F, Jacq X, Trouplin V, Mougin C, Groizeleau C, Hamburger A, Meil A, Wojcik J, Legrain P and Gauthier J-M

(2004) Genome Res., (14), 1324–1332

http://www.ncbi.nlm.nih.gov/pubmed/15231748

2004

Microbiology

Biochemical characterization of protein complexes from the Helicobacter pylori protein interaction map: strategies for complex formation and evidence for novel interactions within type IV secretion systems

Terradot L, Durnell N, Li M, Li M, Ory J, Labigne A, Legrain P, Colland F and Waksman G

(2004) Mol. Cell Proteomics, (3), 809–819

http://www.ncbi.nlm.nih.gov/pubmed/15133060

2003

Cancer Research

Comprehensive proteomic analysis of breast cancer cell membranes reveals unique proteins with potential roles in clinical cancer

Adam P J, Boyd R, Tyson K L, Fletcher G C, Stamps A, Hudson L, Poyser H R, Redpath N, Griffiths M, Steers G, Harris A L, Patel S, Berry J, Loader J A, Townsend R R, Daviet L, Legrain P, Parekh R and Terrett J A

(2003) J. Biol. Chem., (278), 6482–6489

http://www.ncbi.nlm.nih.gov/pubmed/12477722

2003

Virology

KSHV vFLIP binds to IKK-gamma to activate IKK

Field N, Low W, Daniels M, Howell S, Daviet L, Boshoff C and Collins M

(2003) J. Cell Sci., (116), 3721–3728

http://www.ncbi.nlm.nih.gov/pubmed/12890756

2003

Cell Biology

Sequential protein association with nascent 60S ribosomal particles

Saveanu C, Namane A, Gleizes PE, Lebreton A, Rousselle JC, Noaillac-Depeyre J, Gas N, Jacquier A, Fromont-Racine M.

(2003) Mol. Cell Biol., 23(13):4449-60

https://www.ncbi.nlm.nih.gov/pubmed/12808088

2003

Cancer Research

hAG-2 and hAG-3, human homologues of genes involved in differentiation, are associated with oestrogen receptor-positive breast tumours and interact with metastasis gene C4.4a and dystroglycan

Fletcher G C, Patel S, Tyson K, Adam, P J, Schenker M, Loader J A, Daviet L, Legrain P, Parekh R, Harris A L and Terrett J A

(2003) Br. J. Cancer, (88), 579–585

http://www.ncbi.nlm.nih.gov/pubmed/12592373

2003

Cell Biology

A dual mechanism controlling the localization and function of exocytic v-SNAREs

Martinez-Arca S, Rudge R, Vacca M, Raposo G, Camonis J, Proux-Gillardeaux V, Daviet L, Formstecher E, Hamburger A, Filippini F, D'Esposito M and Galli T

(2003) Proc. Natl. Acad. Sci. U S A, (100), 9011–9016

http://www.ncbi.nlm.nih.gov/pubmed/12853575

2003

Cell Biology

Identification and characterization of a novel RanGTP-binding protein in the yeast Saccharomyces cerevisiae

Braunwarth A, Fromont-Racine M, Legrain P, Bischoff FR, Gerstberger T, Hurt E, Kunzler M

(2003) J. Biol. Chem., 278(17):15397-405

https://www.ncbi.nlm.nih.gov/pubmed/12578832

2003

Cell Biology

Ral GTPases regulate exocyst assembly through dual subunit interactions

Moskalenko S, Tong C, Rosse C, Mirey G, Formstecher E, Daviet L, Camonis J and White M A

(2003) J. Biol. Chem., (278), 51743–51748

http://www.ncbi.nlm.nih.gov/pubmed/14525976

2002

Neuroscience

Myosin VIIa, harmonin and cadherin 23, three Usher I gene products that cooperate to shape the sensory hair cell bundle

Boëda B, El-Amraoui A, Bahloul A, Goodyear R, Daviet L, Blanchard S, Perfettini I, Fath K R, Shorte S, Reiners J, Houdusse A, Legrain P, Wolfrum U, Richardson G and Petit C

(2002) EMBO J, (21), 6689–6699

http://www.ncbi.nlm.nih.gov/pubmed/12485990

2002

Microbiology

Functional characterization of the antagonistic flagellar late regulators FliA and FlgM of Helicobacter pylori and their effects on the H. pylori transcriptome

Josenhans C, Niehus E, Amersbach S, Hörster A, Betz C, Drescher B, Hughes K T and Suerbaum S

(2002) Mol. Microbiol., (43), 307–322

http://www.ncbi.nlm.nih.gov/pubmed/11985711

2001

Microbiology

Identification of the Helicobacter pylori anti-sigma28 factor

Colland F, Rain J-C, Gounon P, Labigne A, Legrain P and Reuse H D

(2001) Mol. Microbiol., (41), 477–48

http://www.ncbi.nlm.nih.gov/pubmed/11489132

2001

Microbiology

Characterization of the interaction partners of secreted proteins and chaperones of Shigella flexneri

Page, A. L., Fromont-Racine, M., Sansonetti, P., Legrain, P. and Parsot, C.

(2001) Mol. Microbiol., (42), 1133–1145

http://www.ncbi.nlm.nih.gov/pubmed/11737652

2001

Microbiology

The protein-protein interaction map of Helicobacter pylori.

Rain J C, Selig L, Reuse H D, Battaglia V, Reverdy C, Simon S, Lenzen G, Petel F, Wojcik J, Schächter V, Chemama Y, Labigne A and Legrain P

(2001) Nature, (409), 211–215

http://www.ncbi.nlm.nih.gov/pubmed/11196647

2000

Virology

A genomic approach of the hepatitis C virus generates a protein interaction map

Flajolet M, Rotondo G, Daviet L, Bergametti F, Inchauspé G, Tiollais P, Transy C and Legrain P

(2000) Gene, (242), 369–379

http://www.ncbi.nlm.nih.gov/pubmed/10721731