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Metabolism

BRD10 Regulates DZIP1 Localization at the Primary Cilium During Mitral Valvulogenesis

Brian Loizzi, Lilong Guo, Matthew Huff, Prakrit Subba, Magdalena K. Brei, Ranan Phookan, Roman Fenner, Kathryn Byerly, Baylee Westbury, Russell A. Norris

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Microbiology

A conserved GTPase complex gates exocytosis for defence and parasitism across alveolates

Marta Mendonça Cova, Lucas Morley, Marjorie Maynadier, Jason Delabre, Arnault Graindorge, Laurence Berry-Sterkers, Shrawan Kumar Mageswaran, Valérie Rofidal, Cameron J. Powell, Martin J. Boulanger, Yi-Wei Chang, Daniela Sparvoli & Maryse Lebrun

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Cell Biology

The early RNA decay factor ZC3H18 directs first intron splicing

Marion Le Rest, Nour El Houda Benbahouche, Christopher Cyrus Kuhn, Jérôme Rouvière, Lis Jakobsen, Marie-Cécile Robert, Julie Abrino, Om Rathore, Yujia Zhang, Andrii Bugai, Céline Verheggen, William Garland, Jens S. Andersen, Elena Conti, Edouard Bertrand, Torben Heick Jensen

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Nanobodies

Nanobody-Based Characterization of Galectin-13 Reveals Immunomodulatory and Tumor-Promoting Functions

Camille Fuselier, Philippine Granger Joly de Boissel, Rita Nehmé, Alex Paré, Fanny Fronton, Sammy Ajarrag, Duong T. Bui, Marlène Fortier, Alyssa Dumoulin, John S. Klassen, Nicolas Doucet, David Chatenet, Yves St-Pierre

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2026

Metabolism

Increased Insulin Action, Glucose Metabolism and Muscle Function in Supervillin-Knockout and Supervillin-Mutant Mice

Cytoskeleton Cytoskeleton RESEARCH ARTICLE Open Access Increased Insulin Action, Glucose Metabolism and Muscle Function in Supervillin-Knockout and Supervillin-Mutant Mice Tara C. Smith, Lauren A. Tauer, Randall H. Friedline, Xiaodi Hu, Duy Tran, Yangyi E. Luo, Nacima Hadjout-Rabi, Elisabeth R. Barton, Jason K. Kim, Elizabeth J. Luna

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Cell Biology - Molecular Biology

The ZBTB16/CUL3/ROC1 ubiquitin ligase drives the degradation of pathogenic pendrin (SLC26A4) protein variants

Florian Huber, Emanuele Bernardinelli, Bassam G. Haddad, Sophie Klaus, Lennart Weitgasser, Sebastian Roesch, Martin Jakab, Robert Konrat, Jan-Philipp Machtens, Dominique Eladari & Silvia Dossena

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Microbiology

The msf gene causes condition-specific shifts in global gene expression in Haemophilus influenzae

Evangeline M. Williams, Mary C. Marino, Jocelyn Hammond, Laura Anastor-Walters, Bhaswati Sen, Kalisse Horne, Azad Ahmed, Steven Lang, Sergey Balashov, Benjamin Janto, Garth D. Ehrlich, Joshua Chang Mell

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Development

Developmental patterning of adipose tissue by abd-A and Abd-B homeotic genes in Drosophila melanogaster

Rajitha-Udakara-Sampath Hemba-Waduge , Mengmeng Liu , Xiao Li , Elisabeth A Budslick , Sarah E Bondos , Keith A Maggert , Jun-Yuan Ji

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Microbiology

dUTPase modulates mycobacterial homologous recombination and interacts with the AdnAB helicase–nuclease

Rita Hirmondó , Dániel Molnár , Gergely Döbrőssy , Szonja T Kovács , Beáta G Vértessy , Judit Tóth

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Cell Biology - Development

SPSP-1 is a sperm protein required for C. elegans hermaphrodite sperm production and embryogenesis

Darline Murat, Margaret Nagorski, Ji Kent Kwah, Shannon Pfeiffer, Nancy Duker, Frank Döring, Aimee Jaramillo-Lambert

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Cell Biology

A systematic interactome of SET1C expands its functional landscape and identifies candidate regulatory connections

Pierre Luciano, Kihyun Park, Stéphane Audebert, Luc Camoin, Carlos A Niño, Da Kyeong Park, Isabella E Maudlin, Marion Dubarry, Lara Lee, Marlene Oeffinger, Jean D Beggs, Young Hye Kim, Jaehoon Kim, Bernhard Dichtl, Vincent Géli

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Cell Biology - Microbiology

Staphylococcus aureus ZigA is implicated in survival in zinc-deplete and genotoxic environments

Kyle T. Enriquez , Andy Weiss, Yasiru R. Perera, Indu Bhatia, Melumo Togashi, Tae Akizuki, W. Hayes McDonald, Walter J. Chazin, Eric P. Skaar

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Microbiology

The Chlamydia trachomatis-secreted effector protein CT181 binds to Mcl-1 and prolongs neutrophil survival

Robert Faris, Rebecca Koch, Paige McCaslin, Naveen Challagundla, Brianna Steiert, Shelby E Andersen, Alix McCullough, Parker Smith, C A Jabeena, Peter Yau; Thomas Rudel, Mary M Weber

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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

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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, Francois-Xavier Cantrelle, David Blum, Valérie Buée-Scherrer, Luc Buée, Isabelle Landrieu, Elian Dupré, and Clément Danis

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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

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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

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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

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Cell Biology - Development

Drak is a potential binding partner of Drosophila Filamin

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

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Microbiology

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

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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

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Cell Biology - Plant 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

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Cell Biology

The Yeast AP-1 Factor Yap8 Recruits SAGA and SWI/SNF to Regulate ACR3 Expression and Arsenic Tolerance

Ewa Maciaszczyk-Dziubinska ,Antonia M. Romero ,Nallani Vijay Kumar ,Jacek Staszewski ,Robert Wysocki &Markus J. Tamás

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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

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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

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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

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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

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Cell Biology - Microbiology

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

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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

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Cell Biology

CLIC5A binds to and stabilizes the open and active conformation of ezrin

Md. Mizanur Rahman, Jong S. Kim1 Laiji Li, M. Rafid Feisal, Kevin Y.L. Mak, Mahtab Tavasoli, Zhixiang Wang, Barbara J. Ballermann, Peter M. Hwang

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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

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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

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Cell Biology - Molecular Biology

KLK15 Alters Connective Tissues in Hypermobile Ehlers-Danlos Syndrome

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Development - Neuroscience

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

Bertrand Hutlet, Gerhard Schlosser

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Cell Biology - Molecular 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

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Cell Biology - Microbiology

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

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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

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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

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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

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Cell Biology - Microbiology

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

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Cell Biology - Molecular Biology

A diverse interactome of the molecular chaperone CCT/TRiC monomers

Carmen M Córdoba-Beldad , Julie Grantham

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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

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Microbiology - Plant Biology

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

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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

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Cell Biology - Development

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

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Cell Biology - Metabolism

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

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Cell Biology - Development

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

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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

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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

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Nanobodies

Development and Characterization of a Novel NEIL1 Nanobody

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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

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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

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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

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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

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Nanobodies

ABCD_AZ756 and ABCD_AZ757 antibodies recognize Dictyostelium ubiquitinated proteins by western blot

Hiba Zein El Dine

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Cancer Research - Nanobodies

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

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Development - Immunology

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

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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

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Nanobodies

Inhibition of tau neuronal internalization using anti-tau single domain antibodies

Clément Danis, Elian Dupré, Thomas Bouillet, Marine Denéchaud, Camille Lefebvre, Marine Nguyen, Justine Mortelecque, François-Xavier Cantrelle, Jean-Christophe Rain, Xavier Hanoulle, Morvane Colin, Luc Buée, Isabelle Landrieu

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Cell Biology - Neuroscience

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

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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

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Cell Biology - Immunology

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

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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

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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

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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

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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

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Metabolism - Molecular Biology

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

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Cell Biology - Molecular 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

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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

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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

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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

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Cell Biology - Molecular 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

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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

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A noncanonical scaffoldtype E3 ligase complex mediates protein UFMylation

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Cell Biology - Metabolism - Molecular 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

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Plant Biology - Molecular Biology

Medicago truncatula SOBIR1 controls pathogen immunity and specificity in the Rhizobiumlegume 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

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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

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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

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Development - Molecular Biology

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

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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

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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

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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

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Cell Biology - Nanobodies - Molecular Biology

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

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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

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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

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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

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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

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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

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Nanobodies

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

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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

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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

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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

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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

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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

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Metabolism

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

Shihui Chen, Carolyn M Phillips

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Nanobodies

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

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

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Nanobodies

AZ921 recognizes the endogenous USP7 protein by immunofluorescence in HCT116 cells

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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

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Plant Biology - Molecular Biology

Interaction of whitefly effector G4 with tomato proteins impacts whitefly performance

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Cell Biology - Development - Immunology

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

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

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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

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

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

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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

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

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Metabolism - Molecular Biology

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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

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

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EROS is a selective chaperone regulating the phagocyte NADPH oxidase and purinergic signalling

Lyra O RandzavolaPaige M MortimerEmma GarsideElizabeth R DufficyAndrea SchejtmanGeorgia RoumeliotiLu YuMercedes PardoKerstin SpirohnCharlotte TolleyCordelia BrandtKatherine HarcourtEsme NicholsMike NahorskiGeoff WoodsJames C WilliamsonShreehari SureshJohn M SowerbyMisaki MatsumotoCelio XC SantosCher Shen KiarSubhankar MukhopadhyayWilliam M RaeGordon J DouganJohn GraingerPaul J LehnerMichael A CalderwoodJyoti ChoudharySimon ClareAnneliese SpeakGiorgia SantilliAlex BatemanKenneth GC SmithFrancesca Magnani Is a corresponding authorDavid C Thomas

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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

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Development - Plant Biology

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

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

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

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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

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Cell Biology - Development

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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

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

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

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

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Ankyrin Is An Intracellular Tether for TMC Mechanotransduction Channels

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

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A wheat NAC interacts with an orphan protein and enhances resistance to Fusarium head blight disease

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Rho-family GTPase 1 (Rnd1) is a biomechanical stress-sensitive activator of cardiomyocyte hypertrophy

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Microbiology - Virology

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Tartrate-Resistant Acid Phosphatase Deficiency in the Predisposition to Systemic Lupus Erythematosus

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Supervillin binds the Rac/Rho-GEF trio and increases trio-mediated rac1 activation

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Linking Cell Surface Receptors to Microtubules: Tubulin Folding Cofactor D Mediates Dscam Functions during Neuronal Morphogenesis

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Control of neuronal apoptosis by reciprocal regulation of NFATc3 and Trim17

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Oligodendroglial maturation is dependent on intracellular protein shuttling

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Gamma-sarcoglycan is required for the response of archvillin to mechanical stimulation in skeletal muscle

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The integrase cofactor LEDGF/p75 associates with Iws1 and Spt6 for postintegration silencing of HIV-1 gene expression in latently infected cells

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Microbiology - Virology

SUMOylation by the E3 ligase TbSIZ1/PIAS1 positively regulates VSG expression in Trypanosoma brucei

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The eukaryotic elongation factor eEF1A1 interacts with SAMHD1

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Association of the P6 protein of Cauliflower mosaic virus with plasmodesmata and plasmodesmal proteins

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The PDZ-Binding Motif of Severe Acute Respiratory Syndrome Coronavirus Envelope Protein Is a Determinant of Viral Pathogenesis

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Plasma DYRK1A as a novel risk factor for Alzheimer's disease

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Lysosome size, motility and stress response regulated by fronto-temporal dementia modifier TMEM106B

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A Complex Regulatory Network Coordinating Cell Cycles During Caenorhabditis elegans Development Is Revealed by a Genome-Wide RNAi Screen

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G-protein coupled receptor BAI3 promotes myoblast fusion in vertebrates

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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

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DNA bending facilitates the error-free DNA damage tolerance pathway and upholds genome integrity

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