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CELL BIOLOGY

- 1952 **Cyclic GMP Kinase II (cGKII) Inhibits NHE3 by Altering Its Trafficking and Phosphorylating NHE3 at Three Required Sites. IDENTIFICATION OF A MULTIFUNCTIONAL PHOSPHORYLATION SITE.** *Tiane Chen, Hetal S. Kocinsky, Boyoung Cha, Rakhilya Murtazina, Jianbo Yang, C. Ming Tse, Varsha Singh, Robert Cole, Peter S. Aronson, Hugo de Jonge, Rafiquel Sarker, and Mark Donowitz*

Also classified as Signal Transduction

- 1994 **CXCR4 Receptor Overexpression in Mesenchymal Stem Cells Facilitates Treatment of Acute Lung Injury in Rats.** *Jing-Xian Yang, Nan Zhang, Han-Wei Wang, Peng Gao, Qing-Ping Yang, and Qing-Ping Wen*

Also classified as Immunology

- 2086 **Molecular Determinants of Phosphatidylinositol 4,5-Bisphosphate (PI(4,5)P₂) Binding to Transient Receptor Potential V1 (TRPV1) Channels.** *Horacio Poblete, Ingrid Oyarzún, Pablo Olivero, Jeffrey Comer, Matías Zuñiga, Romina V. Sepulveda, David Báez-Nieto, Carlos González Leon, Fernando González-Nilo, and Ramón Latorre*

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- 2175 **Three α SNAP and 10 ATP Molecules Are Used in SNARE Complex Disassembly by N-ethylmaleimide-sensitive Factor (NSF).** *Niket Shah, Karen N. Colbert, Michael D. Enos, Daniel Herschlag, and William I. Weis*

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- 2189 **Glucagon-CREB/CRTC2 Signaling Cascade Regulates Hepatic BMAL1 Protein.** *Xiujie Sun, Fabian Dang, Deyi Zhang, Yuan Yuan, Cui Zhang, Yuting Wu, Yiguo Wang, and Yi Liu*

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- 2289 **Aip1 Promotes Actin Filament Severing by Cofilin and Regulates Constriction of the Cytokinetic Contractile Ring.** *Qian Chen, Naomi Courtemanche, and Thomas D. Pollard*

- 2431 **The Cdc20-binding Phe Box of the Spindle Checkpoint Protein BubR1 Maintains the Mitotic Checkpoint Complex During Mitosis.** *Laura A. Diaz-Martinez, Wei Tian, Bing Li, Ross Warrington, Luying Jia, Chad A. Brautigam, Xuelian Luo, and Hongtao Yu*

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DEVELOPMENTAL BIOLOGY

- 2007 **The Short Stature Homeobox 2 (Shox2)-bone Morphogenetic Protein (BMP) Pathway Regulates Dorsal Mesenchymal Protrusion Development and Its Temporary Function as a Pacemaker during Cardiogenesis.** *Cheng Sun, Diankun Yu, Wenduo Ye, Chao Liu, Shuping Gu, Nathan R. Sinsheimer, Zhongchen Song, Xihai Li, Chun Chen, Yingnan Song, Shusheng Wang, Laura Schrader, and YiPing Chen*

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- 2225 **First Evidence for Substrate Channeling between Proline Catabolic Enzymes. A VALIDATION OF DOMAIN FUSION ANALYSIS FOR PREDICTING PROTEIN-PROTEIN INTERACTIONS.** *Nikhilesh Sanyal, Benjamin W. Arentson, Min Luo, John J. Tanner, and Donald F. Becker*

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- 2405 **Insights into the Role of the Unusual Disulfide Bond in Copper-Zinc Superoxide Dismutase.** *Kevin Sea, Se Hui Sohn, Armando Durazo, Yuewei Sheng, Bryan F. Shaw, Xiaohang Cao, Alexander B. Taylor, Lisa J. Whitson, Stephen P. Holloway, P. John Hart, Diane E. Cabelli, Edith Butler Gralla, and Joan Selverstone Valentine*

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- 2444 **Probing Substrate Interactions in the Active Tunnel of a Catalytically Deficient Cellobiohydrolase (Cel7).** *Francieli Colussi, Trine H. Sørensen, Kadri Alasepp, Jeppe Kari, Nicolaj Cruys-Bagger, Michael S. Windahl, Johan P. Olsen, Kim Borch, and Peter Westh*

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- 2264 **Epigenetic Modification of Histone 3 Lysine 27. MEDIATOR SUBUNIT MED25 IS REQUIRED FOR THE DISSOCIATION OF POLYCOMB REPRESSIVE COMPLEX 2 FROM THE PROMOTER OF CYTOCHROME P450 2C9.** *Neal A. Englert, George Luo, Joyce A. Goldstein, and Sailesh Surapureddi*

Also classified as DNA and Chromosomes

- 2279 **Wilms Tumor Suppressor, WT1, Suppresses Epigenetic Silencing of the β -Catenin Gene.** *Murielle M. Akpa, Diana M. Iglesias, Lee Lee Chu, Marta Cybulsky, Cristina Bravi, and Paul R. Goodyer*

Also classified as Molecular Bases of Disease

On The Cover

Using a single molecule “tightrope” assay we can follow eGFP-tagged myosin binding to actin thin filaments. When myosin binds, it activates the thin filaments leading to further myosin binding. Image deconvolution provides information on how myosin, calcium, and ATP configure the extent of activation, depicted here by the lighter patch of actin. For details see the article by Desai *et al.*, pages 1915–1925.

- 2508 **Dual Roles of Histone H3 Lysine 9 Acetylation in Human Embryonic Stem Cell Pluripotency and Neural Differentiation.** Yunbo Qiao, Ran Wang, Xianfa Yang, Ke Tang, and Naihe Jing
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GENOMICS AND PROTEOMICS

- 2198 **Identification and Pharmacological Inactivation of the MYCN Gene Network as a Therapeutic Strategy for Neuroblastic Tumor Cells.** Olesya Chayka, Cosimo Walter D'Acunto, Odette Middleton, Maryam Arab, and Arturo Sala
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- 2137 **Impaired O-Linked N-Acetylglucosamylation in the Endoplasmic Reticulum by Mutated Epidermal Growth Factor (EGF) Domain-specific O-Linked N-Acetylglucosamine Transferase Found in Adams-Oliver Syndrome.** Mitsutaka Ogawa, Shogo Sawaguchi, Takami Kawai, Daita Nadano, Tsukasa Matsuda, Hirokazu Yagi, Koichi Kato, Koichi Furukawa, and Tetsuya Okajima
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- 2334 **A Revised Mechanism for the Activation of Complement C3 to C3b. A MOLECULAR EXPLANATION OF A DISEASE-ASSOCIATED POLYMORPHISM.** Elizabeth Rodriguez, Ruodan Nan, Keying Li, Jayesh Gor, and Stephen J. Perkins
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- 2368 **Specific Inhibition of Histone Deacetylase 8 Reduces Gene Expression and Production of Proinflammatory Cytokines *in Vitro* and *in Vivo*.** Suzhao Li, Gianluca Fossati, Carlo Marchetti, Daniela Modena, Pietro Pozzi, Leonid L. Reznikov, Maria Luisa Moras, Tania Azam, Antonio Abbate, Paolo Mascagni, and Charles A. Dinarello

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- 2053 **Sphingolipid Pathway Regulates Innate Immune Responses at the Fetomaternal Interface during Pregnancy.** Kiyomi Mizugishi, Takuya Inoue, Hiroshi Hatayama, Jacek Bielawski, Jason S. Pierce, Yukiyasu Sato, Akifumi Takaori-Kondo, Ikuo Konishi, and Kouhei Yamashita
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- 2477 **LDL Receptor and ApoE Are Involved in the Clearance of ApoM-associated Sphingosine 1-Phosphate.** Makoto Kurano, Kazuhisa Tsukamoto, Masumi Hara, Ryunosuke Ohkawa, Hitoshi Ikeda, and Yutaka Yatomi

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- 2166 **The PDZ Motif of the α_{1C} Subunit Is Not Required for Surface Trafficking and Adrenergic Modulation of $Ca_v1.2$ Channel in the Heart.** Lin Yang, Alexander Katchman, Richard L. Weinberg, Jeffrey Abrams, Tahmina Samad, Elaine Wan, Geoffrey S. Pitt, and Steven O. Marx
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- 2235 **Membrane Topology of Hedgehog Acyltransferase.** Armine Matevossian and Marilyn D. Resh
Also classified as Cell Biology
- 2303 **Functional Characterization of 5-Oxoproline Transport via SLC16A1/MCT1.** Shotaro Sasaki, Yuya Futagi, Masaki Kobayashi, Jiro Ogura, and Ken Iseki
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- 2496 **Intramembrane Aromatic Interactions Influence the Lipid Sensitivities of Pentameric Ligand-gated Ion Channels.** Casey L. Carswell, Jiayin Sun, and John E. Baenziger
Also classified as Neurobiology

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- 2034 **Heart Mitochondrial TTP Synthesis and the Compartmentalization of TMP.** Vasudeva G. Kamath, Chia-Heng Hsiung, Zachary J. Lizenby, and Edward E. McKee
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- 2244 ***In Vivo* Kinetics of Formate Metabolism in Folate-deficient and Folate-replete Rats.** Gregory P. Morrow, Luke MacMillan, Simon G. Lamarre, Sara K. Young, Amanda J. MacFarlane, Margaret E. Brosnan, and John T. Brosnan
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- 2466 **Prolonged Fasting Identifies Heat Shock Protein 10 as a Sirtuin 3 Substrate.** ELUCIDATING A NEW MECHANISM LINKING MITOCHONDRIAL PROTEIN ACETYLATION TO FATTY ACID OXIDATION ENZYME FOLDING AND FUNCTION. Zhongping Lu, Yong Chen, Angel M. Aponte, Valentina Battaglia, Marjan Gucsek, and Michael N. Sack
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- 2351 **The *Mycobacterium tuberculosis* Clp Gene Regulator Is Required for *in Vitro* Reactivation from Hypoxia-induced Dormancy.** Amanda McGillivray, Nadia A. Golden, and Deepak Kaushal
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- 2379 **The C-terminal 50 Amino Acid Residues of Dengue NS3 Protein Are Important for NS3-NS5 Interaction and Viral Replication.** Moon Y. F. Tay, Wuan Geok Saw, Yongqian Zhao, Kitt W. K. Chan, Daljit Singh, Yuwen Chong, Jade K. Forwood, Eng Eong Ooi, Gerhard Grüber, Julien Lescar, Dahai Luo, and Subhash G. Vasudevan
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MOLECULAR BASES OF DISEASE

- 2042 **Progranulin and a Five Transmembrane Domain-Containing Receptor-like Gene Are the Key Components in Receptor Activator of Nuclear Factor κ B (RANK)-dependent Formation of Multinucleated Osteoclasts.** Jaemin Oh, Ju-Young Kim, Han-Soo Kim, Justin Cheesung Oh, Yoon-Hee Cheon, Jongtae Park, Kwon-Ha Yoon, Myeung Su Lee, and Byung-Soo Youn
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- 2069 **The MicroRNA-130/301 Family Controls Vasoconstriction in Pulmonary Hypertension.** Thomas Bertero, Katherine Cottrill, Adrienn Krauszman, Yu Lu, Sofia Annis, Andrew Hale, Balkrishen Bhat, Aaron B. Waxman, B. Nelson Chau, Wolfgang M. Kuebler, and Stephen Y. Chan
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- 2150 **Molecular Basis of the Dominant Negative Effect of a Glycine Transporter 2 Mutation Associated with Hyperekplexia.** Esther Arribas-González, Jaime de Juan-Sanz, Carmen Aragón, and Beatriz López-Corcuera
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- 2213 **Constitutive Activation of Epidermal Growth Factor Receptor Promotes Tumorigenesis of Cr(VI)-transformed Cells through Decreased Reactive Oxygen Species and Apoptosis Resistance Development.** Donghern Kim, Jin Dai, Leonard Yenwong Fai, Hua Yao, Young-Ok Son, Lei Wang, Poil Pratheeshkumar, Kazuya Kondo, Xianglin Shi, and Zhuo Zhang
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- 2395 **The H50Q Mutation Induces a 10-fold Decrease in the Solubility of α -Synuclein.** Riccardo Porcari, Christos Proukakis, Christopher A. Waudby, Benedetta Bolognesi, P. Patrizia Mangione, Jack F. S. Paton, Stephen Mullin, Lisa D. Cabrita, Amanda Penco, Annalisa Relini, Guglielmo Verona, Michele Vendruscolo, Monica Stoppini, Gian Gaetano Tartaglia, Carlo Camilloni, John Christodoulou, Anthony H. V. Schapira, and Vittorio Bellotti
Also classified as Protein Structure and Folding

- 2419 **The Src Homology and Collagen A (ShcA) Adaptor Protein Is Required for the Spatial Organization of the Costamere/Z-disk Network during Heart Development.** Mohamed Mlih, Lionel Host, Sophie Martin, Nathalie Niederhoffer, Laurent Monassier, Jérôme Terrand, Nadia Messaddeq, Michael Radke, Michael Gotthardt, Véronique Bruban, Frank Kober, Monique Bernard, Emmanuelle Canet-Soulas, Francisco Abt-Jijon, Philippe Boucher, and Rachel L. Matz
Also classified as Developmental Biology

MOLECULAR BIOPHYSICS

- 1915 **Using Fluorescent Myosin to Directly Visualize Cooperative Activation of Thin Filaments.** Rama Desai, Michael A. Geeves, and Neil M. Kad
Also classified as Enzymology
- 2251 **Differential Ubiquitin Binding by the Acidic Loops of Ube2g1 and Ube2r1 Enzymes Distinguishes Their Lys-48-ubiquitylation Activities.** Yun-Seok Choi, Yun-Ju Lee, Seo-Yeon Lee, Lei Shi, Jung-Hye Ha, Hae-Kap Cheong, Chaejoon Cheong, Robert E. Cohen, and Kyoung-Seok Ryu
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NEUROBIOLOGY

- 1966 **A Food and Drug Administration-approved Asthma Therapeutic Agent Impacts Amyloid β in the Brain in a Transgenic Model of Alzheimer Disease.** Yukiko Hori, Shuko Takeda, Hansang Cho, Susanne Wegmann, Timothy M. Shoup, Kazue Takahashi, Daniel Irimia, David R. Elmaleh, Bradley T. Hyman, and Eloise Hudry
Also classified as Molecular Bases of Disease
- 2521 **The Anoctamin Family Channel Subdued Mediates Thermal Nociception in *Drosophila*.** Wijeong Jang, Ji Young Kim, Shanyu Cui, Juyeon Jo, Byoung-Cheol Lee, Yeonwoo Lee, Ki-Sun Kwon, Chul-Seung Park, and Changsoo Kim
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PLANT BIOLOGY

- 1898 **A Lettuce (*Lactuca sativa*) Homolog of Human Nogo-B Receptor Interacts with *cis*-Prenyltransferase and Is Necessary for Natural Rubber Biosynthesis.** Yang Qu, Romit Chakrabarty, Hue T. Tran, Eun-Joo G. Kwon, Moonhyuk Kwon, Trinh-Don Nguyen, and Dae-Kyun Ro
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PROTEIN STRUCTURE AND FOLDING

- 1979 **Significantly Enhanced Heme Retention Ability of Myoglobin Engineered to Mimic the Third Covalent Linkage by Nonaxial Histidine to Heme (Vinyl) in *Synechocystis* Hemoglobin.** Sheetal Uppal, Shikha Salhotra, Nitika Mukhi, Fatima Kamal Zaidi, Manas Seal, Somdatta Ghosh Dey, Rajiv Bhat, and Suman Kundu
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- 2126 **Crystal Structure of BamB Bound to a Periplasmic Domain Fragment of BamA, the Central Component of the β -Barrel Assembly Machine.** Katarina Bartoš Jansen, Susan Lynn Baker, and Marcelo Carlos Sousa
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- 2489 **Atypical Ubiquitylation in Yeast Targets Lysine-less Asi2 for Proteasomal Degradation.** Mirta Boban, Per O. Ljungdahl, and Roland Foisner

SIGNAL TRANSDUCTION

- 1927 **SUMOylation Attenuates Human β -Arrestin 2 Inhibition of IL-1R/TRAFF6 Signaling.** Ning Xiao, Hui Li, Wenhan Mei, and Jinke Cheng
Also classified as Gene Regulation
- 1936 **Generation and Characterization of ATP Analog-specific Protein Kinase C δ .** Varun Kumar, Yi-Chinn Weng, Werner J. Geldenhuys, Dan Wang, Xiqian Han, Robert O. Messing, and Wen-Hai Chou
Also classified as Protein Structure and Folding
- 2024 **Inhibition of Polo-like Kinase 1 (Plk1) Enhances the Antineoplastic Activity of Metformin in Prostate Cancer.** Chen Shao, Nihal Ahmad, Kurt Hodges, Shihuan Kuang, Tim Ratliff, and Xiaoli Liu
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- 2099 **Extracellular Signal-regulated Kinase Mediates Expression of Arginase II but Not Inducible Nitric-oxide Synthase in Lipopolysaccharide-stimulated Macrophages.** Yi Jin, Yusen Liu, and Leif D. Nelin
- 2112 **Arg Kinase-binding Protein 2 (ArgBP2) Interaction with α -Actinin and Actin Stress Fibers Inhibits Cell Migration.** Praju Vikas Anekal, Jeffery Yong, and Ed Manser
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- 2312 **Liver Kinase B1 Suppresses Lipopolysaccharide-induced Nuclear Factor κ B (NF- κ B) Activation in Macrophages.** Zhaoyu Liu, Wencheng Zhang, Miao Zhang, Huaiping Zhu, Cate Moriasi, and Ming-Hui Zou
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- 2321 **Phosphorylation and Inactivation of Glycogen Synthase Kinase 3 β (GSK3 β) by Dual-specificity Tyrosine Phosphorylation-regulated Kinase 1A (Dyrk1A).** Woo-Joo Song, Eun-Ah Christine Song, Min-Su Jung, Sun-Hee Choi, Hyung-Hwan Baik, Byung Kwan Jin, Jeong Hee Kim, and Sul-Hee Chung
- 2455 **Crystal Structure of LGR4-Rspo1 Complex. INSIGHTS INTO THE DIVERGENT MECHANISMS OF LIGAND RECOGNITION BY LEUCINE-RICH REPEAT G-PROTEIN-COUPLED RECEPTORS (LGRs).** Jin-Gen Xu, Chunfeng Huang, Zhengfeng Yang, Mengmeng Jin, Panhan Fu, Ni Zhang, Jian Luo, Dali Li, Mingyao Liu, Yan Zhou, and Yongqun Zhu
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ADDITIONS AND CORRECTIONS

- 2301 **The Hog1 stress-activated protein kinase targets nucleoporins to control mRNA export upon stress. VOLUME 288 (2013) PAGES 17384–17398.** Sergi Regot, Eulàlia de Nadal, Susana Rodríguez-Navarro, Alberto González-Novo, Jorge Pérez-Fernandez, Olivier Gadal, Gerhard Seisenbacher, Gustav Ammerer, and Francesc Posas
- 2302 **Interaction of the human prostacyclin receptor with Rab11. CHARACTERIZATION OF A NOVEL Rab11 BINDING DOMAIN WITHIN α -HELIX 8 THAT IS REGULATED BY PALMITOYLATION. VOLUME 285 (2010) PAGES 18709–18726.** Helen M. Reid, Eamon P. Mulvaney, Elizebeth C. Turner, and B. Therese Kinsella

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