

## Selected Publications Citing 21<sup>st</sup> Century Biochemicals Custom Antibodies

\* Denotes phosphospecific antibody

**TRIM37 is a new histone H2A ubiquitin ligase and breast cancer oncoprotein.** Sanchita Bhatnagar, Claude Gazin, Lynn Chamberlain, Jianhong Ou, Xiaochun Zhu, Jogender S. Tushir, Ching-Man Virbasius, Ling Lin, Lihua J. Zhu, Narendra Wajapeyee & Michael R. Green. *Nature*, Dec 2014, 516(7529): 116-120.

**Acyl-CoA thioesterase-2 facilitates mitochondrial fatty acid oxidation in the liver.** Cynthia Moffat, Lavesh Bhatia, Teresa Nguyen, Peter Lynch, Miao Wang, Dongning Wang, Olga R. Ilkayeva, Xianlin Han, Matthew D. Hirschey, Steven M. Claypool, and Erin L. Seifert *J. Lipid Res.*, Dec 2014; 55: 2458 - 2470.

**VaxCelerate II: Rapid Development of a Self-Assembling Vaccine for Lassa Fever.** Leblanc P, Moise L, Luza C, Chantalarawan K, Lezeau L, Yuan J, Field M, Richer D, Boyle C, Martin WD, Fishman JB, Berg EA, Baker D, Zeigler B, Mais DE, Taylor W, Coleman R, Warren HS, Gelfand JA, De Groot AS, Brauns T, Poznansky MC. *Hum Vaccin Immunother.* Nov 2014 [Epub ahead of print].

**Characterization of right ventricular remodeling and failure in a chronic pulmonary hypertension model.** Jaume Agüero, Kiyotake Ishikawa, Lahouaria Hadri, Carlos Santos-Gallego, Kenneth Fish, Nadjib Hammoudi, Antoine Chaanine, Samantha Torquato, Charbel Naim, Borja Ibanez, Daniel Pereda, Ana García-Alvarez, Valentin Fuster, Partho P. Sengupta, Jane A. Leopold, and Roger J. Hajjar. *Am J Physiol Heart Circ Physiol*, Oct 2014; 307: H1204 - H1215.

**Atmin mediates kidney morphogenesis by modulating Wnt signaling.** Paraskevi Goggolidou, Nazreen F. Hadjirin, Aggie Bak, Eugenia Papakrivopoulou, Helen Hilton, Dominic P. Norris, and Charlotte H. Dean Hum. *Mol. Genet.*, Oct 2014; 23: 5303 - 5316.

**\*Akt-dependent Activation of mTORC1 Complex Involves Phosphorylation of mTOR (Mammalian Target of Rapamycin) by I $\kappa$ B Kinase  $\alpha$  (IKK $\alpha$ ).** Han C. Dan, Aaron Ebbs, Manolis Pasparakis, Terry Van Dyke, Daniela S. Basseres, and Albert S. Baldwin. *J. Biol. Chem.*, Sep 2014; 289: 25227 - 25240.

**Acid-sensing ion channels are involved in epithelial Na<sup>+</sup> uptake in the rainbow trout *Oncorhynchus mykiss*.** Agnieszka K. Dymowska, Aaron G. Schultz, Salvatore D. Blair, Danuta Chamot, and Greg G. Goss. *Am J Physiol Cell Physiol*, Aug 2014; 307: C255 - C265.

**\*Accurate phosphoregulation of kinetochore–microtubule affinity requires unconstrained molecular interactions.** Anatoly V. Zaytsev, Lysie J.R. Sundin, Keith F. DeLuca, Ekaterina L. Grishchuk, and Jennifer G. DeLuca. *J. Cell Biol.*, Jun 2014; 10.1083/jcb.201312107.

**Seroepidemiology of Astrovirus MLB1.** Lori R. Holtz, Irma K. Bauer, Hongbing Jiang, Robert Belshe, Pamela Freiden, Stacey L. Schultz-Cherry, and David Wang *Clin. Vaccine Immunol.*, Jun 2014; 21: 908 - 911.

**NEDD9 Regulates Actin Dynamics through Cortactin Deacetylation in an AURKA/HDAC6–Dependent Manner.** Varvara K. Kozyreva, Sarah L. McLaughlin, Ryan H. Livengood, Robin A. Calkins, Laura C. Kelley, Anuradha Rajulapati, Ryan J. Ice, Matthew B. Smolkin, Scott A. Weed, and Elena N. Pugacheva. *Mol. Cancer Res.*, May 2014; 12: 681 - 693.

**VaxCelerate: the use of MTBhsp70-avidin as an adjuvant to rapidly generate self-assembling vaccines with biotinylated, antigen-specific peptides targeting emerging pathogens.** Jordan Fishman, Leonard Moise, Pierre LeBlanc, Timothy Brauns, Eric Berg, Daniel Richer, Christine Boyle, Anne De Groot, Bill Martin, David Baker, Brandon Zeigler, Dale Mais, William Taylor, Russell Coleman, Warren Shaw, Jeffrey Gelfand, and Mark Poznansky. *J. Immunol.*, May 2014; 192: 140.2.

**\*Interleukin 1/Toll-like Receptor-induced Autophosphorylation Activates Interleukin 1 Receptor-associated Kinase 4 and Controls Cytokine Induction in a Cell Type-specific Manner.** Leah Cushing, Wayne Stochaj, Marshall Siegel, Robert Czerwinski, Ken Dower, Quentin Wright, Margaret Hirschfield, Jean-Laurent Casanova, Capucine Picard, Anne Puel, Lih-Ling Lin, and Vikram R. Rao. *J. Biol. Chem.*, Apr 2014; 289: 10865 - 10875.

**Pleiotropic Effects of Cavin-1 Deficiency on Lipid Metabolism** Shi-Ying Ding, Mi-Jeong Lee, Ross Summer, Libin Liu, Susan K. Fried, and Paul F. Pilch *J. Biol. Chem.*, Mar 2014; 289: 8473 - 8483.

**A KRAS-directed transcriptional silencing pathway that mediates the CpG island methylator phenotype** Ryan W Serra, Minggang Fang, Sung Mi Park, Lloyd Hutchinson, and Michael R Green *eLife Sci*, Mar 2014; 3: e02313.

**Acetylation of the KXGS motifs in tau is a critical determinant in modulation of tau aggregation and clearance.** Casey Cook, Yari Carlomagno, Tania F. Gendron, Judy Dunmore, Kristyn Scheffel, Caroline Stetler, Mary Davis, Dennis Dickson, Matthew Jarpe, Michael DeTure, and Leonard Petrucelli. *Hum. Mol. Genet.*, Jan 2014; 23: 104 - 116.

**Virus-Viroid Interactions: *Citrus Tristeza Virus* Enhances the Accumulation of *Citrus Dwarfing Viroid* in Mexican Lime via Virus-Encoded Silencing Suppressors.** Pedro Serra, Seyed M. Bani Hashemian, Carmen Fagoaga, Juan Romero, Susana Ruiz-Ruiz, Maria T. Gorris, Edson Bertolini, and Núria Duran-Vila. *J. Virol.*, Jan 2014; 88: 1394 - 1397.

**PAT1 (SLC36A1) shows nuclear localization and affects growth of smooth muscle cells from rats.** Anne Jensen, Manuel Figueiredo-Larsen, René Holm, Mie Larsen Broberg, Birger Brodin, and Carsten Uhd Nielsen. *Am J Physiol Endocrinol Metab*, Jan 2014; 306: E65 - E74.

**Characterization of a novel polyclonal anti-hypusine antibody.** Yurika Nishiki, Thomas B Farb, Jessica Friedrich, Krister Bokvist, Raghavendra G Mirmira, and Bernhard Maier. **2013. SpringerPlus 2013**, 2:421

**Targeted Deletion of Kynurenine 3-Monooxygenase in Mice: A NEW TOOL FOR STUDYING KYNURENINE PATHWAY METABOLISM IN PERIPHERY AND BRAIN.** Flaviano Giorgini, Shao-Yi Huang, Korrapati V. Sathyaikumar, Francesca M. Notarangelo, Marian A. R. Thomas, Margarita Tararina, Hui-Qiu Wu, Robert Schwarcz, and Paul J. Muchowski. *J. Biol. Chem.*, Dec 2013; 288: 36554 - 36566.

**\*KNL1 facilitates phosphorylation of outer kinetochore proteins by promoting Aurora B kinase activity** Gina V. Caldas, Keith F. DeLuca, and Jennifer G. DeLuca *J. Cell Biol.*, 2013 Dec 23;203(6):957-69.

**Polyamines Are Critical for the Induction of the Glutamate Decarboxylase-dependent Acid Resistance System in *Escherichia coli*** Manas K. Chattopadhyay and Herbert Tabor *J. Biol. Chem.*, Nov 2013; 288: 33559 - 33570.

**Targeted manipulation of the sortilin-progranulin axis rescues progranulin haploinsufficiency.** Lee WC, Almeida S, Prudencio M, Caulfield TR, Zhang YJ, Tay WM, Bauer PO, Chew J, Sasaguri H, Jansen-West KR, Gendron TF, Stetler CT, Finch N, Mackenzie IR, Rademakers R, Gao FB, Petrucelli L. *Hum Mol Genet.* **2013 Oct 26.** [Epub ahead of print]

**Trapping and Identification of Cellular Substrates of the Staphylococcus aureus ClpC Chaperone.** Justin W. Graham, Mei G. Lei, and Chia Y. Lee. *J. Bacteriol.*, Oct 2013; 195: 4506 - 4516.

**\*Interferon Regulatory Factor 4 Is Activated through c-Src-Mediated Tyrosine Phosphorylation in Virus-Transformed Cells.** Ling Wang and Shunbin Ning. *J. Virol.*, Sep 2013; 87: 9672 - 9679.

**\*c-Jun N-Terminal Kinase Phosphorylation of Heterogeneous Nuclear Ribonucleoprotein K Regulates Vertebrate Axon Outgrowth via a Posttranscriptional Mechanism.** Erica J. Hutchins and Ben G. Szaro. *J. Neurosci.*, Sep 2013; 33: 14666 - 14680.

**\*Palmitoylation is the switch that assigns calnexin to quality control or ER Ca<sup>2+</sup> signaling.** Emily M. Lynes, Arun Raturi, Marina Shenkman, Carolina Ortiz Sandoval, Megan C. Yap, Jiahui Wu, Aleksandra Janowicz, Nathan Myhill, Matthew D. Benson, Robert E. Campbell, Luc G. Berthiaume, Gerardo Z. Lederkremer, and Thomas Simmen. *J. Cell Sci.*, Sep 2013; 126: 3893 - 3903.

**Protein Kinase D1-mediated Phosphorylations Regulate Vasodilator-stimulated Phosphoprotein (VASP) Localization and Cell Migration.** Heike R. Döppler, Ligia I. Bastea, Laura J. Lewis-Tuffin, Panos Z. Anastasiadis, and Peter Storz *J. Biol. Chem.*, Aug 2013; 288: 24382 - 24393.

**Acetylation of the KXGS motifs in tau is a critical determinant in modulation of tau aggregation and clearance.** Casey Cook, Yari Carlomagno, Tania F. Gendron, Judy Dunmore, Kristyn Scheffel, Caroline Stetler, Mary Davis, Dennis Dickson, Matthew Jarpe, Michael DeTure, and Leonard Petrucelli. *Hum. Mol. Genet.*, Aug 2013; 10.1093/hmg/ddt402.

**Seawater acclimation and inositol monophosphatase isoform expression in the European eel (*Anguilla anguilla*) and Nile tilapia (*Oreochromis niloticus*).** Svetlana Kalujnaia, Steven A. Gellatly, Neil Hazon, Alfredo Villasenor, Paul H. Yancey, and Gordon Cramb. *Am J Physiol Regulatory Integrative Comp Physiol*, Aug 2013; 305: R369 - R384.

**\*Impaired contractile function due to decreased cardiac myosin binding protein C content in the sarcomere** Y. Cheng, X. Wan, T. A. McElfresh, X. Chen, K. S. Gresham, D. S. Rosenbaum, M. P. Chandler, and J. E. Stelzer *Am J Physiol Heart Circ Physiol*, Jul 2013; 305: H52 - H65.

**\*A pan-specific antibody for direct detection of protein histidine phosphorylation.** Kee JM, Oslund RC, Perlman DH, Muir TW. *Nat Chem Biol.* July 2013;9(7):416-21

**\*Metabolic sensor AMPK directly phosphorylates RAG1 protein and regulates V(D)J recombination.** Jee-Hyun Um, Alexandra L. Brown, Samarendra K. Singh, Yong Chen, Marjan Gucek, Baek-Seung Lee, Megan A. Luckey, Myung K. Kim, Jung-Hyun Park, Barry P. Sleckman, Martin Gellert, and Jay H. Chung. *PNAS*, Jun 2013; 110: 9873 - 9878.

**p67<sup>phox</sup> terminates the phospholipase A<sub>2</sub>-derived signal for activation of NADPH oxidase (NOX2).** Saikumari Y. Krishnaiah, Chandra Dodia, Sheldon I. Feinstein, and Aron B. Fisher. *FASEB J*, May 2013; 27: 2066 - 2073.

**Differential regulation of sodium–potassium pump isoforms during smolt development and seawater exposure of Atlantic salmon.** Stephen D. McCormick, Amy M. Regish, Arne K. Christensen, Bjorn Thrandur Björnsson. April 1, 2013 *J Exp Biol* 216: 1142-1151.

**The tight junction protein claudin-b regulates epithelial permeability and sodium handling in larval zebrafish, *Danio rerio*.** Raymond W. M. Kwong and Steve F. Perry. *AJP - Regu Physiol* April 1, 2013 vol. 304 (7): R504-R513.

**\*Direct binding of the Kex2p cytosolic tail to the VHS domain of yeast Gga2p facilitates TGN to prevacuolar compartment transport and is regulated by phosphorylation.** Mithu De, Mohamed E. Abazeed, and Robert S. Fuller. *Mol. Biol. Cell*, Feb 2013; 24: 495 - 509.

**The conserved interaction of C7orf30 with MRPL14 promotes biogenesis of the mitochondrial large ribosomal subunit and mitochondrial translation.** Stephen Fung, Tamiko Nishimura, Florin Sasarman, and Eric A. Shoubridge. *Mol. Biol. Cell*, Feb 2013; 24: 184 - 193.

**Neuregulin Mediates F-actin-driven Cell Migration through Inhibition of Protein Kinase D1 via Rac1 Protein.** Heike Döppler, Ligia I. Bastea, Tim Eiseler, and Peter Storz. *J. Biol. Chem.*, Jan 2013; 288: 455 - 465.

**Targeting C4-Demethylating Genes in the Cholesterol Pathway Sensitizes Cancer Cells to EGF Receptor Inhibitors via Increased EGF Receptor Degradation.** Anna Sukhanova, Andrey Gorin, Ilya G. Serebriiskii, Linara Gabitova, Hui Zheng, Diana Restifo, Brian L. Egleston, David Cunningham, Tetyana Bagnyukova, Hanqing Liu, Anna Nikonova, Gregory P. Adams, Yan Zhou, Dong-Hua Yang, Ranee Mehra, Barbara Burtness, Kathy Q. Cai, Andres Klein-Szanto, Lisa E. Kratz, Richard I. Kelley, Louis M. Weiner, Gail E. Herman, Erica A. Golemis, and Igor Astsaturov. *Cancer Discovery*, Jan 2013; 3: 96 - 111.

**Pazopanib Enhances Paclitaxel-Induced Mitotic Catastrophe in Anaplastic Thyroid Cancer.** Crescent R. Isham, Ayoko R. Bossou, Vivian Negron, Kelly E. Fisher, Rakesh Kumar, Laura Marlow, Wilma L. Lingle, Robert C. Smallridge, Eric J. Sherman, Vera J. Suman, John A. Copland, and Keith C. *Bible Science Translational Medicine*, Jan 2013; 5: 166ra3.

**\*Calcineurin-dependent cofilin activation and increased retrograde actin flow drive 5-HT–dependent neurite outgrowth in *Aplysia bag cell* neurons.** Xiao-Feng Zhang, Callen Hyland, David Van Goor, and Paul Forscher. *Mol. Biol. Cell*, Dec 2012; 23: 4833 - 4848.

**K<sup>+</sup>-Cl<sup>-</sup> cotransporter-2 KCC2 in chicken cardiomyocytes.** Shane P. Antrobus, Christian Lytle, and John A. Payne. *Am J Physiol Cell Physiol*, Dec 2012; 303: C1180 - C1191

**Flavinylation and Assembly of Succinate Dehydrogenase Are Dependent on the C-terminal Tail of the Flavoprotein Subunit.** Hyung J. Kim, Mi-Young Jeong, Un Na, and Dennis R. Winge. *J. Biol. Chem.*, Nov 2012; 287: 40670 - 40679.

**Early complex I assembly defects result in rapid turnover of the ND1 subunit.** Olga Zurita Rendón and Eric A. Shoubridge *Hum. Mol. Genet.*, Sep 2012; 21: 3815 - 3824.

**\*Phosphorylation of Adaptor Protein Containing Pleckstrin Homology Domain, Phosphotyrosine Binding Domain, and Leucine Zipper Motif 1 (APPL1) at Ser430 Mediates Endoplasmic Reticulum (ER) Stress-induced Insulin Resistance in Hepatocytes.** Meilian Liu, Lijun Zhou, Li Wei, Ricardo Villarreal, Xin Yang, Derong Hu, Ramon A. Riojas, Bekke M. Holmes, Paul R. Langlais, Hakjoo Lee, and Lily Q. Dong. *J. Biol. Chem.*, Jul 2012; 287: 26087 - 26093.

**\*Protein Kinase C $\alpha$  Phosphorylates a Novel Argininosuccinate Synthase Site at Serine 328 during Calcium-dependent Stimulation of Endothelial Nitric-oxide Synthase in Vascular Endothelial Cells.** Ricci J. Haines, Karen D. Corbin, Laura C. Pendleton, and Duane C. Eichler. *J. Biol. Chem.*, Jul 2012; 287: 26168 - 26176.

**\*c-Jun N-terminal Kinase (JNK)-Mediated Rad18 Phosphorylation Facilitates Pol $\eta$  Recruitment to Stalled Replication Forks.** Laura R. Barkley, Komaraiah Palle, Michael Durando, Tovah A. Day, Aditi Gurkar, Naoko Kakusho, Jianying Li, Hisao Masai, and Cyrus Vaziri. *Mol. Biol. Cell*, May 2012; 23: 1943 - 1954.

**The endosomal adaptor protein APPL1 impairs the turnover of leading edge adhesions to regulate cell migration** Joshua A. Broussard, Wan-hsin Lin, Devi Majumdar, Bridget Anderson, Brady Eason, Claire M. Brown, and Donna J. Webb *Mol. Biol. Cell*, Apr 2012; 23: 1486 - 1499.

**\*Protein Kinase A Contributes to the Negative Control of Snf1 Protein Kinase in *Saccharomyces cerevisiae*.** LaKisha Barrett, Marianna Orlova, Marcin Maziarz, and Sergei Kuchin *Eukaryot. Cell*, Feb 2012; 11: 119 - 128.

**A monocarboxylate transporter required for hepatocyte secretion of ketone bodies during fasting** Sarah E. Hugo, Lourdes Cruz-Garcia, Santhosh Karanth, Ryan M. Anderson, Didier Y.R. Stainier, and Amnon Schlegel *Genes & Dev.*, Feb 2012; 26: 282 - 293.

**Expansion of Cyclin D and CDK1 Paralogs in *Oikopleura dioica*, a Chordate Employing Diverse Cell Cycle Variants.** Coen Campsteijn, Jan Inge Øvrebø, Bård Ove Karlsen, and Eric M. Thompson. *Mol. Biol. Evol.*, Feb 2012; 29: 487 - 502.

**Control of Type I Interferon-induced Cell Death by Orai1-mediated Calcium Entry in T Cells** Chanyu Yue, Jonathan Soboloff, and Ana M. Gamero *J. Biol. Chem.*, Jan 2012; 287: 3207 - 3216.

**An *rhs* gene of *Pseudomonas aeruginosa* encodes a virulence protein that activates the inflammasome** Vanderlene L. Kung, Sonal Khare, Christian Stehlik, Elizabeth M. Bacon, Ami J. Hughes, and Alan R. Hauser *PNAS*, Jan 2012; 109: 1275 - 1280.

**\*Identification of RhoGAP22 as an Akt-Dependent Regulator of Cell Motility in Response to Insulin** Alexander F. Rowland, Mark Larance, William E. Hughes, and David E. James *Mol. Cell. Biol.*, Dec 2011; 31: 4789 - 4800.

**Role of caveolin-1 in endothelial BK<sub>Ca</sub> channel regulation of vasoreactivity.** Melissa A. Riddle, Jennifer M. Hughes, and Benjimen R. Walker *Am J Physiol Cell Physiol*, Dec 2011; 301: C1404 - C1414.

**\*Tyrosine phosphorylation within the SH3 domain regulates CAS subcellular localization, cell migration, and invasiveness.** Radoslav Janostiak, Ondrej Tolde, Zuzana Bruhová, Marian Novotny, Steven K. Hanks, Daniel Rösel, and Jan Brábek *Mol. Biol. Cell*, Nov 2011; 22: 4256 - 4267.

**\*Stress-Stimulated Mitogen-Activated Protein Kinases Control the Stability and Activity of the Cdt1 DNA Replication Licensing Factor** Srikripa Chandrasekaran, Ting Xu Tan, Jonathan R. Hall, and Jeanette Gowen Cook *Mol. Cell. Biol.*, Nov 2011; 31: 4405 - 4416.

**Toll-like Receptor 3 (TLR3) Signaling Requires TLR4 Interactor with Leucine-rich Repeats (TRIL)** Susan Carpenter, Paulina Wochal, Aisling Dunne, and Luke A. J. O'Neill *J. Biol. Chem.*, Nov 2011; 286: 38795 - 38804.

**Cardiac proteasome activity in muscle ring finger-1 null mice at rest and following synthetic glucocorticoid treatment** Darren T. Hwee, Aldrin V. Gomes, and Sue C. Bodine *Am J Physiol Endocrinol Metab*, Nov 2011; 301: E967 - E977.

**Pyroglutamate-A $\beta$  3 and 11 colocalize in amyloid plaques in Alzheimer's disease cerebral cortex with pyroglutamate-A $\beta$  11 forming the central core.** Sullivan CP, Berg EA, Elliott-Bryant R, Fishman JB, McKee AC, Morin PJ, Shia MA, Fine RE. **Neurosci Lett.** 2011 Nov 14;505(2):109-12.

**\*APPL1 Mediates Adiponectin-Induced LKB1 Cytosolic Localization Through the PP2A-PKC $\zeta$  Signaling Pathway** Sathyaseelan S. Deepa, Lijun Zhou, Jiyeon Ryu, Changhua Wang, Xuming Mao, Cai Li, Ning Zhang, Nicolas Musi, Ralph A. DeFronzo, Feng Liu, and Lily Q. Dong. **Mol. Endocrinol.**, Oct 2011; 25: 1773 - 1785.

**The LYR Protein Mzm1 Functions in the Insertion of the Rieske Fe/S Protein in Yeast Mitochondria.** Aaron Atkinson, Pamela Smith, Jennifer L. Fox, Tie-Zhong Cui, Oleh Khalimonchuk, and Dennis R. Winge. **Mol. Cell. Biol.**, Oct 2011; 31: 3988 - 3996.

**A new model of congestive heart failure in rats.** Jiqiu Chen, Elie R. Chemaly, Li Fan Liang, Thomas J. LaRocca, Elisa Yaniz-Galende, and Roger J. Hajjar. **Am J Physiol Heart Circ Physiol**, Sep 2011; 301: H994 - H1003.

**Flow-Dependent Regulation of Krüppel-Like Factor 2 Is Mediated by MicroRNA-92a.** Wei Wu, Han Xiao, Andrés Laguna-Fernandez, Guadalupe Villarreal, Jr, Kuei-Chun Wang, Greg G. Geary, Yuzhi Zhang, Wei-Chi Wang, Hsien-Da Huang, Jing Zhou, Yi-Shuan Li, Shu Chien, Guillermo Garcia-Cardena, and John Y.-J. Shyy. **Circulation**, Aug 2011; 124: 633 - 641.

**Essential Role of Endocytosis of the Type II Transmembrane Serine Protease TMPRSS6 in Regulating Its Functionality** François Béliveau, Cédric Brulé, Antoine Désilets, Brandon Zimmerman, Stéphane A. Laporte, Christine L. Lavoie, and Richard Leduc **J. Biol. Chem.**, Aug 2011; 286: 29035 - 29043.

**Caveolins/caveolae protect adipocytes from fatty acid-mediated lipotoxicity** Tova Meshulam, Michael R. Breen, Libin Liu, Robert G. Parton, and Paul F. Pilch. **J. Lipid Res.**, Aug 2011; 52: 1526 - 1532.

**SLC26 anion exchangers of guinea pig pancreatic duct: molecular cloning and functional characterization** Andrew K. Stewart, Boris E. Shmukler, David H. Vandorpe, Fabian Reimold, John F. Heneghan, M. Nakakuki, Arash Akhavan, Shigeru Ko, Hiroshi Ishiguro, and Seth L. Alper. **Am J Physiol Cell Physiol**, Aug 2011; 301: C289 - C303.

**\* Phosphorylation of G Protein-coupled Receptor Kinase 1 (GRK1) Is Regulated by Light but Independent of Phototransduction in Rod Photoreceptors.** Shoji Osawa, Rebecca Jo, Yubin Xiong, Boris Reidel, Nomingere Tserentsoodol, Vadim Y. Arshavsky, P. Michael Iuvone, and Ellen R. Weiss **J. Biol. Chem.**, Jun 2011; 286: 20923 - 20929.

**Regulation of growth factor receptor degradation by ADP-ribosylation factor domain protein (ARD) 1.** Victor Meza-Carmen, Gustavo Pacheco-Rodriguez, Gi Soo Kang, Jiro Kato, Chiara Donati, Chun-Yi Zhang, Alessandro Vichi, D. Michael Payne, Souheil El-Chemaly, Mario Stylianou, Joel Moss, and Martha Vaughan. **Proc. Natl. Acad. Sci., U.S.A.**, Jun 2011; 108: 10454 - 10459.

**Identification of a Novel Muscle A-type Lamin-interacting Protein (MLIP)** Elmira Ahmady, Shelley A. Deeke, Seham Rabaa, Lara Kouri, Laura Kenney, Alexandre F. R. Stewart, and Patrick G. Burgon **J. Biol. Chem.**, Jun 2011; 286: 19702 - 19713.

**\*DDR1 Receptor Tyrosine Kinase Promotes Prosurvival Pathway through Notch1 Activation** Hyung-Gu Kim, So-Young Hwang, Stuart A. Aaronson, Anna Mandinova, and Sam W. Lee **J. Biol. Chem.**, May 2011; 286: 17672 - 17681.



**HDAC3 and HDAC7 Have Opposite Effects on Osteoclast Differentiation** Lan Pham, Bria Kaiser, Amanda Romsa, Toni Schwarz, Raj Gopalakrishnan, Eric D. Jensen, and Kim C. Mansky *J. Biol. Chem.*, Apr 2011; 286: 12056 - 12065.

\* **Protein Kinase C-Mediated Phosphorylation of a Single Serine Residue on the Rat Glial Glutamine Transporter SN1 Governs Its Membrane Trafficking.** Lise Sofie H. Nissen-Meyer, Mark C. Popescu, El Hassan Hamdani, and Farrukh A. Chaudhry. *J. Neurosci.*, Apr 2011; 31: 6565 - 6575.

\* **Casein kinase-2 mediates cell survival through phosphorylation and degradation of inositol hexakisphosphate kinase-2.** Anutosh Chakraborty, J. Kent Werner, Jr., Michael A. Koldobskiy, Asif K. Mustafa, Krishna R. Juluri, Joseph Pietropaoli, Adele M. Snowman, and Solomon H. Snyder. *Proc. Natl. Acad. Sci., U.S.A.*, Feb 2011; 108: 2205 - 2209.

\* **Temporal changes in Hec1 phosphorylation control kinetochore-microtubule attachment stability during mitosis.** Keith F. DeLuca, Susanne M. A. Lens, and Jennifer G. DeLuca. *J. Cell Sci.*, Feb 2011; 124: 622 - 634.

**FoxG1 Promotes the Survival of Postmitotic Neurons** Somasish Ghosh Dastidar, Paul Michael Zagala Landrieu, and Santosh R. D'Mello *J. Neurosci.*, Jan 2011; 31: 402 - 413.

**Lysine methylation of the NF- $\kappa$ B subunit RelA by SETD6 couples activity of the histone methyltransferase GLP at chromatin to tonic repression of NF- $\kappa$ B signaling** Dan Levy<sup>1</sup>, Alex J Kuo<sup>1</sup>, Yanqi Chang<sup>2</sup>, Uwe Schaefer<sup>3</sup>, Christopher Kitson<sup>4</sup>, Peggie Cheung<sup>1</sup>, Aleksandra Espejo<sup>5</sup>, Barry M Zee<sup>6</sup>, Chih Long Liu<sup>1,7</sup>, Stephanie Tangsombatvisit<sup>7</sup>, Ruth I Tennen<sup>8</sup>, Andrew Y Kuo<sup>1</sup>, Song Tanjing<sup>9</sup>, Regina Cheung<sup>7</sup>, Katrin F Chua<sup>8,10</sup>, Paul J Utz<sup>7</sup>, Xiaobing Shi<sup>9</sup>, Rab K Prinjha<sup>4</sup>, Kevin Lee<sup>4</sup>, Benjamin A Garcia<sup>6</sup>, Mark T Bedford<sup>5</sup>, Alexander Tarakhovskiy<sup>3</sup>, Xiaodong Cheng<sup>2</sup> & Or Gozani<sup>1</sup> *Nat Immunol.* **2011** Jan;12(1):29-36. Epub 2010 Dec 5.

\* **Osmotic Stress Inhibits Proteasome by p38 MAPK-dependent Phosphorylation** Seung-Hoon Lee, Yoon Park, Sungjoo Kim Yoon, and Jong-Bok Yoon *J. Biol. Chem.*, Dec 2010; 285: 41280 - 41289.

\* **Phosphorylated Rad18 directs DNA Polymerase to sites of stalled replication** Tovah A. Day, Komariah Palle, Laura R. Barkley, Naoko Kakusho, Ying Zou, Satoshi Tateishi, Alain Verreault, Hisao Masai, and Cyrus Vaziri *J. Cell Biol.*, Nov 2010; 0.1083/jcb.201006043

**A role for inositol monophosphatase 1 (IMPA1) in salinity adaptation in the euryhaline eel (*Anguilla anguilla*)** Svetlana Kalujnaia, Jill McVee, Taciana Kasciukovic, Alan J. Stewart, and Gordon Cramb *FASEB J*, Oct 2010; 24: 3981 - 3991.

\* **Inhibition of Membrane-Type 1 Matrix Metalloproteinase Tyrosine Phosphorylation Blocks Tumor Progression in Mice.** Carine Nyalendo, Herve Sartelet, Denis Gingras, and Richard Beliveau *Anticancer Res.*, Jun 2010; 30: 1887 - 1895.

\* **Cdk5-Mediated Phosphorylation of -Catenin Regulates Its Localization and GluR2-Mediated Synaptic Activity.** Charlene P. Poore, Jeyapriya R. Sundaram, Tej K. Pareek, Amy Fu, Niranjana Amin, Nur Ezan Mohamed, Ya-Li Zheng, Angeline X. H. Goh, Mitchell K. Lai, Nancy Y. Ip, Harish C. Pant, and Sashi Kesavapany. *J. Neurosci.*, Jun 2010; 30: 8457 - 8467.

**A role for inositol monophosphatase 1 (IMPA1) in salinity adaptation in the euryhaline eel (*Anguilla anguilla*).** Svetlana Kalujnaia, Jill McVee, Taciana Kasciukovic, Alan J. Stewart, and Gordon Cramb. *FASEB J*. Jun 2010; 10.1096/fj.10-161000.

**\*Dasatinib inhibits site-specific tyrosine phosphorylation of androgen receptor by Ack1 and Src kinases.** Y Liu, M Karaca, Z Zhang, D Gioeli, H S Earp and Y E Whang. *Oncogene* June, 2010. 29, 3208–3216.

**Diabetic Mice Display a Delayed Adaptive Immune Response to *Mycobacterium tuberculosis*** Therese Vallerskog, Gregory W. Martens, and Hardy Kornfeld *J. Immunol.*, Jun 2010; 184: 6275 - 6282.

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