

Selected Publications Referencing LI-COR® and The Odyssey®

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Table of Contents

	Page
Signal Transduction	2
Apoptosis	2
Cell, Tumor, and Chemical Biology	2
Virology	3
Methods and Applications	3-4
<i>Western Blot Assays</i>	3
<i>Coomassie Staining</i>	3
<i>EMSA</i>	3
<i>On-Cell Western Assays</i>	3
<i>In-Cell Western Assays</i>	4
Protein Kinases	4
<i>In Vivo</i> Imaging	4

LI-COR®

Biosciences

PUBLICATIONS REFERENCING ODYSSEY INFRARED IMAGING DATA

SIGNAL TRANSDUCTION

A Novel Role of Vascular Endothelial Cadherin in Modulating c-Src Activation and Downstream Signaling of Vascular Endothelial Growth Factor.

Chang Hoon Ha, Anton M. Bennett, and Zheng-Gen Jin. *J. Biol. Chem.*, Mar 2008; 283: 7261-7270.

Quantitative Evaluation of Signaling Events in *Drosophila* S2 Cells

David Bond*, David A. Primrose* and Edan Foley, Department of Medical Microbiology and Immunology, University of Alberta, Edmonton AB, Canada. *Biol. Proced. Online* 2008; 10(1):20-28 doi:10.1251/bpo139, February 4, 2008

Quantitative Analyses Reveal the Importance of Regulated Hdmx Degradation for P53 Activation

Yunyuan V. Wang, Mark Wade, EeTsin Wong, Yao-Cheng Li, Luo Wei Rodewald, and Geoffrey M. Wahl. *PNAS*, Jul 2007; 104: 12365-12370.

Investigating the Regulation of Brain Specific Kinases 1 & 2 by Phosphorylation

Nicola J. Bright, David Carling, and Claire Thornton. *J. Biol. Chem.*, Mar 2008; 10.1074/jbc.M710381200

Insulin Receptor Substrate 4 Couples the Leptin Receptor to Multiple Signaling Pathways

Joris Wauman, Anne-Sophie De Smet, Dominiek Catteeuw, Denise Belsham, and Jan Tavernier. *Mol. Endocrinol.*, Apr 2008; 22: 965-977

Regulation of CB₁ Cannabinoid Receptor Trafficking by the Adaptor Protein AP-3

Raphael Rozenfeld and Lakshmi A. Devi. *FASEB J*, Mar 2008; 10.1096/fj.07-102731

AMP-Activated Protein Kinase Phosphorylates and Desensitizes Smooth Muscle Myosin Light Chain Kinase

Sandrine Horman, Nicole Morel, Didier Vertommen, Nusrat Hussain, Dietbert Neumann, Christophe Beauloye, Nicole El Najjar, Christelle Forcet, Benoit Viollet, Michael P. Walsh, Louis Hue, and Mark H. Rider. *J. Biol. Chem.*, Apr 2008; 10.1074/jbc.M802053200

Modulation of Endocrine Pancreas Development but not β -Cell Carcinogenesis by Sprouty4

Fabienne Jäggi, Miguel A. Cabrita, Anne-Karina T. Perl, and Gerhard Christofori. *Mol. Cancer Res.*, Mar 2008; 6: 468-482

Phosphorylation of MEKK3 at Threonine 294 Promotes 14-3-3 Association to Inhibit Nuclear Factor κ B Activation

Adi E. Matitau and Michael P. Scheid. *J. Biol. Chem.*, May 2008; 283: 13261 - 13268

APOPTOSIS

Mitochondrial Localization of Reaper to Promote Inhibitors of Apoptosis Protein Degradation Conferred by GH3 Domain-Lipid Interactions.

Christopher D. Freel, D. Ashley Richardson, Michael J. Thomenius, Eugene C. Gan, Sarah R. Horn, Michael R. Olson, and Sally Kornbluth. *J. Biol. Chem.*, Jan 2008; 283: 367 - 379.

Exendin-4 Protects β -Cells From Interleukin-1 β -Induced Apoptosis by Interfering With the c-Jun NH₂-Terminal Kinase Pathway

Mourad Ferdaoussi, Saida Abdelli, Jiang-Yan Yang, Marion Cornu, Guy Niederhauser, Dimitri Favre, Christian Widmann, Romano Regazzi, Bernard Thorens, Gérard Waeber, and Amar Abderrahmani. *Diabetes*, May 2008; 57: 1205-1215

CELL, TUMOR, AND CHEMICAL BIOLOGY

The Adenocarcinoma-Associated Antigen, *AGR2*, Promotes Tumor Growth, Cell Migration, and Cellular Transformation

Zheng Wang, Ying Hao, and Anson W. Lowe. *Cancer Res.*, Jan 2008; 68: 492-497

Epidermal Growth Factor Receptor Blockade in Combination with Conventional Chemotherapy Inhibits Soft Tissue Sarcoma Cell Growth *In vitro* and *In vivo*

Wenhong Ren, Borys Korchin, Quan-Sheng Zhu, Caimiao Wei, Adam Dicker, John Heymach, Alexander Lazar, Raphael E. Pollock, and Dina Lev. *Clin. Cancer Res.*, May 2008; 14: 2785 - 2795

The Estrogen Receptor Pathway in Rhabdomyosarcoma: A Role for Estrogen Receptor- β in Proliferation and Response to the Antiestrogen 4'OH-Tamoxifen

Joshua A. Greenberg, Stig Somme, Hege E. Russnes, Adam D. Durbin, and David Malkin. *Cancer Res.*, May 2008; 68: 3476-3485

Characterization of an Akt Kinase Inhibitor with Potent Pharmacodynamic and Antitumor Activity

Nelson Rhodes, Dirk A. Heerding, Derek R. Duckett, Derek J. Eberwein, Victoria B. Knick, Timothy J. Lansing, Randy T. McConnell, Tona M. Gilmer, Shu-Yun Zhang, Kimberly Robell, Jason A. Kahana, Robert S. Geske, Elena V. Kleymenova, Anthony E. Choudhry, Zhihong Lai, Jack D. Leber, Elisabeth A. Minthorn, Susan L. Strum, Edgar R. Wood, Pearl S. Huang, Robert A. Copeland, and Rakesh Kumar. *Cancer Res.*, Apr 2008; 68: 2366 - 2374

VIROLOGY

Identification of Cellular Proteins That Maintain Retroviral Epigenetic Silencing: Evidence for an Antiviral Response

Andrey Poleshko, Ivan Palagin, Rugang Zhang, Pamela Boimel, Carolyn Castagna, Peter D. Adams, Anna Marie Skalka, and Richard A. Katz*. *Journal of Virology*, March 2008, p. 2313-2323, Vol. 82, No. 5

Vaccinia Virus DNA Ligase Recruits Cellular Topoisomerase II To Sites of Viral Replication and Assembly

Y.-C. James Lin, Jianhong Li, Chad R. Irwin, Heather Jenkins, Luke DeLange, and David H. Evans. *J. Virol.*, Apr 2008; 10.1128/JVI.02723-07

METHODS AND APPLICATIONS

Western Blot Assays

Bam32: A Novel Mediator of Erk Activation in T Cells

Connie L. Sommers, Jordan M. Gurson, Rishi Surana, Mira Barda-Saad, Jan Lee, Aparna Kishor, WenMei Li, Adam J. Gasser, Valarie A. Barr, Michihiko Miyaji, Paul E. Love, and Lawrence E. Samelson. *Int. Immunol.*, Apr 2008; 10.1093/intimm/dxn039

Quantitative Proteomics Analysis of the Effects of Ionizing Radiation in Wild Type and p53^{K317R} Knock-in Mouse Thymocytes

Lisa M. Miller Jenkins, Sharlyn J. Mazur, Matteo Rossi, Olga Gaidarenko, Yang Xu, and Ettore Appella. *Mol. Cell. Proteomics*, Apr 2008; 7: 716 - 727.

In Vivo β -Secretase 1 Inhibition Leads to Brain A β Lowering and Increased α -Secretase Processing of Amyloid Precursor Protein Without Effect on Neuregulin-1

Sethu Sankaranarayanan, Eric A. Price, Guoxin Wu, Ming-Chih Crouthamel, Xiao-Ping Shi, Katherine Tugusheva, Keala X. Tyler, Jason Kahana, Joan Ellis, Lixia Jin, Thomas Steele, Shawn Stachel, Craig Coburn, and Adam J. Simon. *J. Pharmacol. Exp. Ther.*, Mar 2008; 324: 957 - 969.

Quantitative Proteomics of a Presymptomatic A53T α -Synuclein Drosophila Model of Parkinson's Disease

Zhiyin Xun, Renā A. Sowell, Thomas C. Kaufman, and David E. Clemmer. *Mol. Cell. Proteomics*, Mar 2008; 10.1074/mcp.M700467-MCP200

Coomassie Staining

Monitoring Mouse Prostate Development by Profiling and Imaging Mass Spectrometry

Pierre Chaurand, Mohammad A. Rahman, Tamela Hunt, James A. Mobley, Guangyu Gu, Joey C. Latham, Richard M. Caprioli, and Susan Kasper. *Mol. Cell. Proteomics*, Feb 2008; 7: 411 - 423.

Structure of the Claudin-Binding Domain of *Clostridium perfringens* Enterotoxin

Christina M. Van Itallie, Laurie Betts, James G. Smedley, III, Bruce A. McClane, and James M. Anderson. *J. Biol. Chem.*, Jan 2008; 283: 268-274.

α_2 -Macroglobulin Binds CpG Oligodeoxynucleotides and Enhances Their Immunostimulatory Properties by a Receptor-Dependent Mechanism

Ryan B. Anderson, George J. Cianciolo, Margaret N. Kennedy, and Salvatore V. Pizzo. *J. Leukoc. Biol.*, Feb 2008; 83: 381-392

EMSA

Cardiac Remodelling Hinders Activation of Cyclooxygenase-2, Diminishing Protection by Delayed Pharmacological Preconditioning: Role of HIF1 α and CREB

Jianhua Feng, Eliana Lucchinetti, Gregor Fischer, Min Zhu, Kathrin Zaugg, Marcus C. Schaub, and Michael Zaugg. *Cardiovasc Res*, Apr 2008; 78: 98 - 107

Molecular Links Among the Causative Genes for Ocular Malformation: Otx2 and Sox2 Coregulate Rax Expression

Hiroki Danno, Tatsuo Michiue, Keisuke Hitachi, Akira Yukita, Shoichi Ishiura, and Makoto Asashima. *PNAS*, Apr 2008; 105: 5408 - 5413.

On-Cell Western Assays

Intracellular Mechanisms Regulating Corticotropin-Releasing Hormone Receptor-2 β Endocytosis and Interaction with Extracellularly Regulated Kinase 1/2 and p38 Mitogen-Activated Protein Kinase Signaling Cascades

Danijela Markovic, Anu Punn, Hendrik Lehnert, and Dimitris K. Grammatopoulos. *Mol. Endocrinol.*, Mar 2008; 22: 689-706

Plasminogen Structural Domains Exhibit Different Functions When Associated with Cell Surface GRP78 or the Voltage-dependent Anion Channel*

Mario Gonzalez-Gronow¹, Steven J. Kaczowka, Sturgis Payne, Fang Wang, Govind Gawdi, and Salvatore V. Pizzo. *J. Biol. Chem.*, November 2007; 282:32811-32820.

Glycosylation of Asn-76 in Mouse GPIHBP1 is Critical for its Appearance on the Cell Surface and the Binding of Chylomicrons and Lipoprotein Lipase

Anne P. Beigneux, Peter Gin, Brandon S. J. Davies, Michael M. Weinstein, André Bensadoun, Robert O. Ryan, Loren G. Fong, and Stephen G. Young. *J. Lipid Res.*, Mar 2008; 10.1194/jlr.M700593-JLR200

METHODS AND APPLICATIONS (Continued)

In-Cell Western Assays

Multi-Pathway Model Enables Prediction of Kinase Inhibitor Cross-Talk Effects on Migration of HER2-Overexpressing Mammary Epithelial Cells

Kumar, Neil, Afeyan, Raffi, Kim, Hyung-Do, Lauffenburger, Douglas A. *Mol Pharmacol* 2008 0: mol.107.043794

N-Palmitoyl Glycine, a Novel Endogenous Lipid that Acts as a Modulator of Calcium Influx and Nitric Oxide Production in Sensory Neurons

Rimmerman, Neta, Bradshaw, Heather B, Hughes, H Velocity, Chen, Jay S-C, Hu, Sherry S-J, McHugh, Douglas, Vefring, Evind, Jahnsen, Jan A, Thompson, Eric L, Masuda, Kim, Cravatt, Benjamin F, Burstein, Sumner, Vasko, Michael R, Prieto, Anne L, O'Dell, David K, Walker, Michael. *Mol Pharmacol* 2008 0: mol.108.045997

The T790M "Gatekeeper" Mutation in EGFR Mediates Resistance to Low Concentrations of an Irreversible EGFR Inhibitor

Godin-Heymann, Nadia, Ulkus, Lindsey, Brannigan, Brian W., McDermott, Ultan, Lamb, Jennifer, Maheswaran, Shyamala, Settleman, Jeffrey, Haber, Daniel A. *Mol Cancer Ther* 2008 7: 874-879

PROTEIN KINASES

Phosphorylation of MEK3 at Threonine 294 Promotes 14-3-3 Association to Inhibit Nuclear Factor-kappa β Activation

Adi E. Matitau and Michael P. Scheid. *J. Biol. Chem*, 10.1074/jbc.M801474200, February, 2008

Expression of Tetraspan Protein CD63 Activates Protein-tyrosine Kinase (PTK) and Enhances the PTK-Induced Inhibition of ROMK Channels

Daohong Lin, Erik-Jan Kamsteeg, Yan Zhang, Yan Jin, Hyacinth Sterling, Peng Yue, Marcel Roos, Amy Duffield, Joanna Spencer, Michael Caplan, and Wen-Hui Wang. *J. Biol. Chem.*, Mar 2008; 283: 7674 – 7681

Cysteine-Rich Protein 2, a Novel Downstream Effector of cGMP/cGMP-Dependent Protein Kinase I-Mediated Persistent Inflammatory Pain

Achim Schmidtko, Wei Gao, Matthias Sausbier, Inga Rauhmeier, Ulrike Sausbier, Ellen Niederberger, Klaus Scholich, Andrea Huber, Winfried Neuhuber, Hans-Dieter Allescher, Franz Hofmann, Irmgard Tegeder, Peter Ruth, and Gerd Geisslinger *J. Neurosci.*, Feb 2008; 28: 1320 – 1330

IN VIVO IMAGING

Hyaluronidase Expression Induces Prostate Tumor Metastasis in an Orthotopic Mouse Model

Joy L. Kovar, Mark A. Johnson, William M. Volcheck, Jiyan Chen, and Melanie A. Simpson. *Am. J. Pathol.*, Oct 2006; 169: 1415 - 1426.

Purification Method Directly Influences Effectiveness of an Epidermal Growth Factor-coupled Targeting Agent for Noninvasive Tumor Detection in Mice

Joy L. Kovar, William M. Volcheck, Jiyan Chen, and Melanie A. Simpson. *Analytical Biochemistry*, Feb 2007; 361:1 47 - 54.

IRDye 800CW 2-deoxyglucose: A Near Infrared Metabolic Optical Imaging Agent

Joy Kovar, William Volcheck, Mike Olive, and Melanie Simpson. *AACR Meeting Abstracts*, Apr 2007; 2007: 5527

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