

Articles	Author	Journal	Year	Number,Page	Keyword
Nickel induces intracellular calcium mobilization and pathophysiological responses in human cultured airway epithelial cells	Julio Cortijo, Javier Milara , Manuel Mata, Eva Donet, Nuria Gavara, Samantha E. Peel, Ian P. Hall, E.J. Morcillo	Chemico-Biological Interactions	2010	Volume 183, Issue 1, 5 January 2010, Pages 25-33	Nickel; Human airway epithelial cells; Ca <sup>2+</sup> -sensing receptor
Nitric Oxide Suppresses Cerebral Vasomotion by sGC-Independent Effects on Ryanodine Receptors and Voltage-Gated Calcium Channels	Kathryn H. Yuill, Alister J. McNeish, Yasuo Kansui, Christopher J. Garl ,Kim A. Dora	Journal of Vascular Research	2010	Vol. 47, No. 2,	Nitric oxide $\uparrow$ Membrane potential $\uparrow$ Calcium signalling $\uparrow$ Vascular smooth muscle $\uparrow$ Cerebral arteries $\uparrow$ Vasomotion
Pharmacological manipulation of inflammation resolution during spontaneously resolving tissue neutrophilia in the zebrafish	Catherine A. Loynes, Jane S. Martin, Anne Robertson, Daniel M. I. Trushell, Philip W. Ingham, Moira K. B. Whyte, Stephen A. Renshaw	Journal of Leukocyte Biology	2010	Volume 87,	apoptosis • granulocytes • neutrophils • compound screen
The Respiratory Syncytial Virus Matrix Protein Possesses a Crm1-Mediated Nuclear Export Mechanism	Reena Ghildyal, Adeline Ho, Manisha Dias, Lydia Soegiyono, Phillip G. Bardin, Kim C. Tran, Michael N. Teng, and David A. Jans*	The Journal of virology	2009		
Cell-cycle regulation and dynamics of cytoplasmic compartments containing the promyelocytic leukemia protein and nucleoporins	Åsne Jul-Larsen,* , Amra Grudic,* , Rolf Bjerkvig and Stig Ove Bøe,	Journal of Cell Science	2009	122, 1201-1210	AML, CBP, Cytoplasm, Nuclear pore complex, Nucleoporins, PML
Vertical hydrodynamic focusing in glass microchannels	Tony A. Lin, A. E. Hosoi, and Daniel J. Ehrlich	Biomicrofluidics	2009	March; 3(1): 014101	bioMEMS, cellular biophysics, computational fluid dynamics, hydrodynamics, microchannel flow, optical microscopy, stroboscopes
The coreceptor CD2 uses plasma membrane microdomains to transduce signals in T cells	Yoshihisa Kaizuka, Adam D. Douglass, Santosh Vardhana, Michael L. Dustin, and Ronald D. Vale,	The Journal of Cell Biology	2009	Vol. 185, No. 3, 521-534	
The collagen receptor DDR1 regulates cell spreading and motility by associating with myosin IIA	Yun Huang, Pamela Arora, Christopher A. McCulloch,* and Wolfgang F. Vogel,	Journal of Cell Science	2009	122, 1637-1646	Actin, Discoidin domain receptor, Integrin, Migration, Non-muscle myosin IIA, Cell spreading
Inactivation of the C. elegans lipin homolog leads to ER disorganization and to defects in the breakdown and reassembly of the nuclear	Andy Golden, Jun Liu and Orna Cohen-Fix,	Journal of Cell Science	2009	122, 1970-1978	Peripheral ER, Lamin, Nuclear shape, Nuclear architecture, Lipid droplets, Diabetes, Insulin resistance, Majeed syndrome
The mechanism and pattern of yolk consumption provide insight into embryonic nutrition in Xenopus	Paul Jorgensen, Judith A. J. Steen, Hanno Steen, and Marc W. Kirschner	Development	2009	136, 1539-1548	Yolk, Cell size, Seryp, Vitellogenin, EP45, pNIXa, Xenopus
Rheb controls misfolded protein metabolism by inhibiting aggresome formation and autophagy	Xiaoming Zhoua, Tsuneo Ikenouea, Xiaowei Chena, Li Lib,c, Ken Inokia and Kun-Liang Guana	Proceedings of the National Academy of Sciences of the United States of America	2009	vol. 106 no. 22 8923-8928	
Evaluation of the Eradication of Bacteria in Suspension and Biofilms using Methylene Blue-loaded Dynamic NanoPlatforms	Jianfeng Wu, Hao Xu, Wei Tang, Raoul Kopelman, Martins A. Philibert, and Chuanwu Xi*	Antimicrobial Agents and Chemotherapy	2009		
Regulation of Synaptic Structure by Ubiquitin C-Terminal Hydrolase L1	Anna E. Cartier, Stevan N. Djakovic, Afshin Salehi, Scott M. Wilson, Eliezer Masliah, and Gentry N. Patrick	The Journal of Neuroscience	2009	29(24):7857-7868	
Dynamic instability of microtubules requires dynamin 2 and is impaired in a Charcot-Marie-Tooth mutant	Kenji Tanabe and Kohji Takei	The Journal of Cell Biology	2009	Vol. 185, No. 6, 939-948	
Chromator is required for proper microtubule spindle formation and mitosis in Drosophila	Yun Dinga, Changfu Yaoa, Mariana Lince-Fariab, Uttama Ratha, Weili Caia, Helder Maiatob, c, Jack Girtona, Kristen M. Johansena and Jørgen Johansena,	Developmental Biology	2009	Volume 334, Issue 1, 1 October 2009, Pages 253-263	Chromator; Spindle-assembly checkpoint; Mitosis; Spindle matrix; Drosophila
Drosophila Larp associates with poly(A)-binding protein and is required for male fertility and syncytial embryo development.	Blagden SP, Gatt MK, Archambault V, Lada K, Ichihara K, Liley KS, Inoue YH, Glover DM.	Developmental biology	2009	Oct 1;334(1):186-97	
METT-10, A Putative Methyltransferase, Inhibits Germ Cell Proliferative Fate in Caenorhabditis elegans	Maia Dorsett, Bethany Westlund, Tim Schedl	Genetics.	2009		germ cell, germ line, methyltransferase, proliferation
Regulation of Cell Death by Recycling Endosomes and Golgi Membrane Dynamics via a Pathway Involving Src-family kinases, Cdc42 and Rab11a	Marie-Claude Landry, Andréane Sicotte, Claudia Champagne, and Josée N. Lavoie	Molecular Biology of the Cell	2009	Vol. 20, Issue 18, 4091-4106	
Cadherin-11 regulates protrusive activity in Xenopus cranial neural crest cells upstream of Trio and the small GTPases	Jubin Kashef, Almut Köhler, Sei Kuriyama, Dominique Alfandari, Roberto Mayor Doris Wedlich	Genes & Development	2009	23: 1393-1398	Trio cadherin-11 cell migration filopodia neural crest small GTPases
Pob1 Participates in the Cdc42 Regulation of Fission Yeast Actin Cytoskeleton	Sergio A. Rincón, Yanfang Ye, M. Antonia Villar-Tajadura, Beatriz Santos, Sophie G. Martin, Pilar Pérez	Molecular Biology of the Cell	2009	Vol. 20, Issue 20, 4390-4399	
Orientation of Mitotic Spindles during the 8- to 16-Cell Stage Transition in Mouse Embryos	Nicolas Dard, Sophie Louvet-Vallée, Bernard Maro	Public Library of Science ONE.	2009		

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PRIMA-1MET induces nucleolar translocation of Epstein-Barr virus-encoded EBNA-5 protein	György Stuber, Emilie Flaberg, Gabor Petranyi, Rita Ötvös, Nina Rökäeus, Elena Kashuba, Klas G Wiman, George Klein, Laszlo Szekely	Molecular Cancer	2009		
Local and global calcium signals associated with the opening of neuronal $\alpha 7$ nicotinic acetylcholine receptors	Dorothee Gilbert, Marzia Lecchi, Serge Arnaudeau, Daniel Bertrand, Nicolas Demaurex	Cell Calcium	2009	Volume 45, Issue 2, February 2009, Pages 198-207	Calcium; Nicotine; Confocal microscopy; Optical single-channel recordings; Calcium microdomains
mRNA Targeting to ER Stress Signaling Sites	Tomás Aragón, Eelco van Anken, David Pincus, Iana M. Serafimova, Alexei V. Korennykh, Claudia A. Rubio, Peter Walter	Nature	2009	February 5; 457(7230): 736–740.	
Tissue Distribution of Murine Muc19/Smgc Gene Products	Biswadi Das, Melanie N. Cash, Arthur R. Hand, Armin Shivazad, Scott S. Grieshaber, Bently Robinson, David J. Culp	Journal of Histochemistry and Cytochemistry	2009		mucin, knockin, bulboethral gland, salivary glands
Evaluation of conjunctival inflammatory status by confocal scanning laser microscopy and conjunctival brush cytology in patients with atopic keratoconjunctivitis (AKC)	Tais Hitomi Wakamatsu, Naoko Okada, Takashi Kojima, Yukihiro Matsumoto, Osama M.A. Ibrahim, Murat Dogru, Enrique Sato Adan, Kazumi Fukagawa, Chikako Katakami, Kazuo Tsubota, Jun Shimazaki, Hiroshi Fujishima	Molecular vision	2009	15: 1611–1619.	
Loss of TGF- $\beta$ or Wnt5a results in an increase in Wnt/ $\beta$ -catenin activity and redirects mammary tumour phenotype	Kevin Roarty, Sarah E Baxley, Michael R Crowley, Andra R Frost, Rosa Serra	Breast Cancer Research	2009		
Nuclear-Cytoplasmic Shuttling of Chibby Controls $\beta$ -Catenin Signaling	Feng-Qian Li, Adaobi Mofunanya, Victoria Fischer, Jason Hall, Ken-Ichi Takemaru	MBC Online	2009		
Sigma-1 receptors regulate Bcl-2 expression by ROS-dependent transcriptional regulation of NF- $\kappa$ B	Johann Meunier, Teruo Hayashi	Journal of Pharmacology and Experimental Therapeutics	2009		NF- $\kappa$ B apoptosis bcl-2 reactive oxygen species sigma receptor sigma-1 receptor
The Function of the Intermediate Compartment in Pre-Golgi Trafficking Involves its Stable Connection with the Centrosome	Michaël Marie, Hege A. Dale, Ragna Sannerud, Jaakko Saraste	Molecular Biology of the Cell	2009	Vol. 20, Issue 20, 4458-4470	
A virus-induced gene silencing screen identifies a role for Thylakoid Formation1 in Pseudomonas syringae pv. tomato symptom development in tomato and Arabidopsis	Taming Wangdi , Srinivasa Rao Uppalapati , Satish Nagaraj , Choong-Min Ryu , Carol L. Bender , Kirankumar S. Mysore	Plant Physiology	2009		
Real Time Imaging of Cellulose Reorientation During Cell Wall Expansion in Arabidopsis Roots	Charles T. Anderson , Andrew Carroll , Laila Akhmetova , Chris Somerville	Plant Physiology	2009		
Dynamin 2 orchestrates the global actomyosin cytoskeleton for epithelial maintenance and apical constriction	Jennifer Chua, Richa Rikhy Jennifer Lippincott-Schwartz	Proceedings of the National Academy of Sciences	2009	vol. 106 no. 49 20770-20775	deacetylated cortactin actin polarity morphogenesis epithelial cells
Pivotal Advance: Pharmacological manipulation of inflammation resolution during spontaneously resolving tissue neutrophilia in the zebrafish	Catherine A. Loynes, Jane S. Martin, Anne Robertson, Daniel M. I. Trushell, Philip W. Ingham, Moira K. B. Whyte, Stephen A. Renshaw	Journal of Leukocyte Biology	2009	Volume 87,	apoptosis • granulocytes • neutrophils • compound screen
SMYD1, the myogenic activator, is a direct target of serum response factor and myogenin	Dali Li, Zhiyv Niu, Weishi Yu, Yu Qian, Qian Wang, Qiang Li, Zhengfang Yi, Jian Luo, Xiushan Wu, Yuequn Wang, Robert J. Schwartz, Mingyao Liu	Nucleic Acids Research	2009	37(21):7059-7071	
H2S Signals Through Protein S-Sulfhydration	Asif K. Mustafa, Moataz M. Gadalla, Nilkantha Sen, Seyun Kim, Weitong Mu, Sadia K. Gazi, Roxanne K. Barrow, Guangdong Yang, Rui Wang , Solomon H. Snyder	Science Signaling	2009	Vol. 2, Issue 96, p. ra72	
Twinfilin 2 Regulates Actin Filament Lengths in Cochlear Stereocilia	Anthony W. Peng, Inna A. Belyantseva, Patrick D. Hsu, Thomas B. Friedman, Stefan Heller	The Journal of Neuroscience	2009	29(48):15083-15088	
Visualizing histone modifications in living cells: spatiotemporal dynamics of H3 phosphorylation during interphase	Yoko Hayashi-Takanaka, Kazuo Yamagata, Naohito Nozaki, Hiroshi Kimura	The Journal of Cell Biology	2009	Vol. 187, No. 6, 781-790	

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A fundamental role of mAbp1 in neutrophils: impact on $\beta 2$ integrin-mediated phagocytosis and adhesion in vivo	Jürgen Schymeinsky, Ronald Gerstl, Ingrid Mannigel, Katy Niedung, David Frommhold, Klaus Panthel, Jürgen Heesemann, Michael Sixt, Thomas Quast, Waldemar Kolanus, Attila Mocsai, Jürgen Wienands, Markus Sperandio, Barbara Walzog	Blood	2009	Vol. 114, No. 19, pp. 4209-4220	
Ceramide kinase regulates phospholipase C and phosphatidylinositol 4, 5, bisphosphate in phototransduction	Ujjaini Dasgupta, Takeshi Bamba, Salvatore Chiantia, Pusha Karim, Ahmad N. Abou Tayoun, Ikuko Yonamine, Satinder S. Rawat, Raghavendra Pralhada Rao, Kunio Nagashima, Eiichiro Fukusaki, Vishwajeet Puri, Patrick J. Dolph, Petra Schwille	Proceedings of the National Academy of Sciences.	2009	vol. 106 no. 47 20063-20068	
Murine CENP-F Regulates Centrosomal Microtubule Nucleation and Interacts with Hook2 at the Centrosome	Katherine L. Moynihan, Ryan Pooley, Paul M. Miller, Irina Kaverina, David M. Bader	Molecular Biology of the Cell	2009	Vol. 20, Issue 22, 4790-4803	
Basal body stability and ciliogenesis requires the conserved component Poc1	Chad G. Pearson, Daniel P.S. Osborn, Thomas H. Giddings, Jr, Philip L. Beales, Mark Winey	The Journal of Cell Biology	2009	Vol. 187, No. 6, 905-920	
Roles of Formin Nodes and Myosin Motor Activity in Mid1p-dependent Contractile-Ring Assembly during Fission Yeast Cytokinesis	Valerie C. Coffman, Aaron H. Nile, I-Ju Lee, Huayang Liu, Jian-Qiu Wu	Molecular Biology of the Cell	2009	Vol. 20, Issue 24, 5195-5210	
In vivo analysis of the functions of -tubulin-complex proteins	Yi Xiong, Berl R. Oakley	Journal of Cell Science	2009	122, 4218-4227	-tubulin complex, Spindle pole body, Centrosome, Microtubule, Microtubule organizing center
The Drosophila Kinesin-13, KLP59D, Impacts Pacman- and Flux-based Chromosome Movement	Uttama Rath, Gregory C. Rogers, Dongyan Tan, Maria Ana Gomez-Ferrera, Daniel W. Buster, Hernando J. Sosa, David J. Sharp	Molecular Biology of the Cell	2009	Vol. 20, Issue 22, 4696-4705	
Mechanisms of $Ca^{2+}$ -stimulated fluid secretion by porcine bronchial submucosal gland serous acinar cells	Robert J Lee, J. Kevin Foskett	Lung Cellular and Molecular Physiology	2009		
HIV-1 Nef inhibits ruffles, induces filopodia and modulates migration of infected lymphocytes	Cinzia Nobile, Dominika Rudnicka, Milena Hasan, Nathalie Aulner, Françoise Porrot, Christophe Machu, Olivier Renaud, Marie-Christine Prévost, Claire Hivroz, Olivier Schwartz, Nathalie Sol-Foulon	The Journal of Virology	2009		
Exploring the Roles of Diaphanous and Enabled Activity in Shaping the Balance between Filopodia and Lamellipodia	Catarina C.F. Homem, Mark Peifer	Molecular Biology of the Cell	2009	Vol. 20, Issue 24, 5138-5155	
ISWI is a RanGTP-dependent MAP required for chromosome segregation	Hideki Yokoyama, Sofia Rybina, Rachel Santarella-Mellwig, Iain W. Mattaj, Eric Karsenti	The Journal of Cell Biology	2009	Vol. 187, No. 6, 813-829	
Analysis of PTEN, BRAF, and EGFR Status in Determining Benefit From Cetuximab Therapy in Wild-Type KRAS Metastatic Colon Cancer	Pierre Laurent-Puig, Anne Cayre, Gilles Manceau, Emmanuel Buc, Jean-Baptiste Bachet, Thierry Lecomte, Philippe Rougier, Astrid Lievre, Bruno Landi, Valérie Boige, Frédéric Bibeau, Olivier Bouché, Julia Reid, Steven Stone, Frédérique Penault-Llorca	Journal of Clinical Oncology	2009	Vol 27, No 35 pp. 5924-5930	
RIAM Regulates the Cytoskeletal Distribution and Activation of PLC- $\gamma 1$ in T Cells	Nikolaos Patsoukis, Esther M. Lafuente, Paul Meraner, Jin sub Kim, David Dombkowski, Lequn Li, Vassiliki A. Boussiotis	Science signaling	2009	Vol. 2, Issue 99, p. ra79	
OCRL1 function in renal epithelial membrane traffic	Shanshan Cui, Christopher J. Guerriero, Christina M. Szalinski, Carol L. Kinlough, Rebecca P. Hughey, Ora A Weisz	Renal Physiology	2009		
Microarray-Based Determination of Estrogen Receptor, Progesterone Receptor, and HER2 Receptor Status in Breast Cancer	Paul Roepman, Hugo M. Horlings, Oscar Krijgsman, Marleen Kok, Jolien M. Buende-Mesquita, Richard Bender, Sabine C. Linn, Annuska M. Glas, Marc J. van de Vijver	Clinical Cancer Research	2009	15; 7003	microarray breast cancer immunohistochemistry hormone receptor HER2
Distinct nonuniform cable properties optimize rapid and efficient activation of fast-spiking GABAergic interneurons	Anja Nörenberg, Hua Hu, Imre Vida, Marlene Bartos, Peter Jonas	Proceedings of the National Academy of Sciences	2009		cable models dendrites hippocampus basket cell

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Actin remodeling by ADF/cofilin is required for cargo sorting at the trans-Golgi network	Julia von Blume, Juan M. Duran, Elena Forlanelli, Anne-Marie Alleaume, Mikhail Egorov, Roman Polishchuk, Henrik Molina, Vivek Malhotra	The Journal of Cell Biology	2009		
Vesicle pool size at the salamander cone ribbon synapse	Theodore M Bartoletti, Norbert Babai,Wallace B. Thoreson	Journal of Neurophysiology	2009		
Measurement of individual red blood cell motions under high hematocrit conditions using a confocal micro-PTV system.	Lima R, Ishikawa T, Imai Y, Takeda M, Wada S, Yamaguchi T.	Annals of biomedical engineering	2009	Aug;37(8):1546-59.	
Twinfilin 2 Regulates Actin Filament Lengths in Cochlear Stereocilia	Anthony W. Peng, Inna A. Belyantseva, Patrick D. Hsu,Thomas B. Friedman, Stefan Heller	The Journal of Neuroscience	2009	29(48):15083-15088	
Selective Down-Regulation of Neutrophil Mac-1 in Endotoxemic Hepatic Microcirculation via IL-10	Gustavo Batista Menezes, Woo-Yong Lee, Hong Zhou, Christopher Curtis Matchett Waterhouse, Denise Carmona Cara, Paul Kubes	The Journal of Immunology	2009	183, 7557 -7568	
Isolation, Structure Elucidation, and Antitumor Activity of Spirohexenolides A and B	MinJin Kang, Brian D. Jones, Alexander L. Mandel, Justin C. Hammons, Antonio G. DiPasquale, Arnold L. Rheingold, James J. La Clair and Michael D. Burkart	The Journal of Organic Chemistry	2009	74 (23), pp 9054–9061	
In Vitro Neural Differentiation of Human Embryonic Stem Cells Using a Low-Density Mouse Embryonic Fibroblast Feeder Protocol	John A. Ozolek , Esther P. Jane, James E. Esplen, Patti Petrosko, Amy K. Wehn, Teresa M. Erb, Sara E. Mucko, Lyn C. Cote, Paul J. Sammak	Methods in Molecular Biology	2009	1064-3745 Volume 584	Embryonic stem cells - neural mouse feeder
The Arp2/3 Activator WASH Controls the Fission of Endosomes through a Large Multiprotein Complex	Emmanuel Derivery, Carla Sousa, Jérémie J. Gautier, Bé rangère Lombard, Damarys Loew, Alexis Gautreau	Developmental Cell	2009	Volume 17, Issue 5, 712-723	
Adaptive force transmission in amoeboid cell migration	Jörg Renkawitz, Kathrin Schumann, Michele Weber, Tim Lämmermann, Holger Pflücke, Matthieu Piel, Julien Polleux, Joachim P. Spatz, Michael Sixt	Nature Cell Biology	2009	11, 1438 - 1443	
Force generation at microtubule ends: An in vitro approach to cortical interactions	Laan, Liedewij		2009		Biophysics,Biopolymers,Cortical interactions,Dynein,End-tracking,Force-generation,Microtubules,Optical tweezers,Plus-tips
Dendritic Compartment and Neuronal Output Mode Determine Pathway-Specific Long-Term Potentiation in the Piriform Cortex	Friedrich W. Jochenning, Prateep S. Beed, Thorsten Trimbuch, Michael H. K. Bendels, Jochen Winterer, Dietmar Schmitz	The Journal of Neuroscience	2009	29(43):13649-13661	
Membrane expansion alleviates endoplasmic reticulum stress independently of the unfolded protein response	Sebastian Schuck, William A. Prinz, Kurt S. Thorn, Christiane Voss, Peter Walter	The Journal of Cell Biology	2009		
A Class of Dynamin-like GTPases Involved in the Generation of the Tubular ER Network	Junjie Hu, Yoko Shibata, Peng-Peng Zhu, Christiane Voss, Neggy Rismanchi, William A. Prinz, Tom A. Rapoport ,Craig Blackstone	Cell	2009	Volume 138, Issue 3, 549-561, 7 August	
A cell polarity protein aPKC $\lambda$ is required for eye lens formation and growth	Yuki Sugiyama, Kazunori Akimoto, Michael L. Robinson, Shigeo Ohno , Roy A. Quinlan	Developmental Biology	2009	Volume 336, Issue 2, 15 December 2009, Pages 246-256	Lens; aPKC; Polarity; Cell junction; Proliferation
Optical interrogation of neural circuits in <i>Caenorhabditis elegans</i>	Zengcai V Guo, Anne C Hart, Sharad Ramanathan	Nature Methods	2009	6, 891 - 896	
Artificial assembly of a minimal cell	Giovanni Murtas	Molecular BioSystems	2009	5, 1292 - 1297	
Size-dependent accumulation of mRNA at the leading edge of chicken embryo fibroblasts	Mai Yamagishi, Yoshitaka Shirasaki, Takashi Funatsu	Biochemical and Biophysical Research Communications	2009	Volume 390, Issue 3, 18 December 2009, Pages 750-754	mRNA localization; Live cell imaging; Leading edge; Cytoplasmic microstructure; Fibroblast
Structural Transition of Non-ionic Poly(acrylamide) Gel	Sada-atsu Mukai, Hirohisa Miki, Vasyi Garamus, Regine Willmeit, Masayuki Tokita	Progress in Colloid and Polymer Science	2009	Volume 136	
Self-Assembly and Cellular Uptake of Degradable and Water-Soluble Polyperoxides	Tamami Fujioka, Shuji Taketani, Takeshi Nagasaki, Akikazu Matsumoto	Bioconjugate chemistry	2009	20 (10), pp 1879–1887	
Vessel Diameter Measurement from Intravital Microscopy	Jaesung Lee , Artit C. Jirapatnakul, Anthony P. Reeves, William E. Crowe, Ingrid H. Sarelius	Annals of Biomedical Engineering	2009	0090-6964 (Print) Volume 37, Number 5	Microcirculation - Image sequence - Feature tracking
Live-Cell-Driven Insertion of a Nanoneedle	Takayuki Hoshino, Tomohiro Konno, Kazuhiko Ishihara, Keisuke Morishima	The Japanese Journal of Applied Physics	2009	Vol48.No.12	

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Two novel 2-aminoethyl diphenylborinate (2-APB) analogues differentially activate and inhibit store-operated $Ca^{2+}$ entry via STIM proteins	Jun-Ichi Gotoa, Akinobu Z. Suzukia, Shoichiro Ozaki, Nagisa Matsumoto, Takeshi Nakamura, Etsuko Ebisui, Andrea Fleig, Reinhold Penner, Katsuhiko Mikoshiba	Cell Calcium	2009		Store-operated calcium entry; CRAC; Calcium; STIM; Orai; CRACM; 2-APB
Chromocentre integrity and epigenetic marks	Andrea Harničarová Horáková, Gabriela Galiová, Soňa Legartová, Stanislav Kozubek, Pavel Matula Eva Bártová	Journal of Structural Biology	2009		SUV39h; Histone methylation; Epigenetics
M-Sec promotes membrane nanotube formation by interacting with Ral and the exocyst complex	Koji Hase, Shunsuke Kimura, Hiroyuki Takatsu, Masumi Ohmae, Sayaka Kawano, Hiroshi Kitamura, Masatoshi Ito, Hiroshi Watarai, C. Clayton Hazelett, Charles Yeaman, Hiroshi Ohno	Nature Cell Biology	2009	11, 1427 - 1432	
Challenging Small Human Hepatocytes with Opiates: Further Characterization of a Novel Prototype Bioartificial Liver	Martin Wurm, Claudia Woess, Kathrin Libiseller, Beate Beer, Marion Pavlic	Tissue Engineering Part A	2009		
Observing and Manipulating Pluripotency in Normal and Cloned Mouse Embryos	Sebastian T. Balbach, F. M. Cavaleri, Luca Gentile, Marcos J. Araúzo-Bravo, Hans R. Schöler, N. Crosetto, Michele Boiani	Trends in Stem Cell Biology and Technology	2009		Embryo - Embryonic stem cell - Green fluorescent protein - Nuclear transfer - Oct4 - Pluripotency - Reprogramming
Hematopoietic Lineage Cell-Specific Protein 1 Is Recruited to the Immunological Synapse by IL-2-Inducible T Cell Kinase and Regulates Phospholipase C1 Microcluster Dynamics during T Cell Spreading	Esteban Carrizosa, Timothy S. Gomez, Christine M. Labno, Deborah A. Klos Dehring, Xiaohong Liu, Bruce D. Freedman, Daniel D. Billadeau, Janis K. Burkhardt	The Journal of Immunology	2009	183, 7352 -7361	
Myosin II Dynamics Are Regulated by Tension in Intercalating Cells	Rodrigo Fernandez-Gonzalez, Sérgio de Matos Simoes, Jens-Christian Röper, Suzanne Eaton, Jennifer A. Zallen	Developmental Cell	2009	Volume 17, Issue 5, 736-743	
N-benzoxazol-2-yl-N'-1-(isoquinolin-3-yl-ethylidene)-hydrazine, a novel compound with antitumor activity, induces radicals and dissipation of mitochondrial membrane potential	Johann Hofmann, Johnny Easmon, Gerhard Puerstinger, Gottfried Heinisch, Marcel Jenny, Alexander A. Shtil, Martin Hermann, Daniele F. Condorelli, Salvatore Sciré, Giuseppe Musumarra	Investigational New Drugs	2009	0167-6997 (Print) Volume 27, Number 3	Bicyclic hydrazone - Gene array - Bioinformatics - Drug target - Mechanism - Radicals
Drusen deposits contain soluble and mature amyloid fibrils	Jose M Isas, Volker Luibl, Lincoln V Johnson, Rakez Kaye, Ronald Wetzels, Charles G Glabe, Ralf Langen, Jeannie Chen	Investigative Ophthalmology and Visual Science	2009		drusen • age-related macular degeneration • retinal pigment epithelium • retinal dystrophy • electron microscopy
Characteristics of thoracolumbar intramedullary subependymomas	Berk Orakcioglu, Peter Schramm, Patricia Kohlhof, Alfred Aschoff, Andreas Unterberg, Marc-Eric Halatsch	Journal of Neurosurgery: Spine	2009	January 2009 Volume 10, Number 1	glial fibrillary acidic protein; MIB-1; thoracolumbar intramedullary subependymoma.
Fibroblast Hepatocyte Growth Factor Promotes Invasion of Human Mammary Ductal Carcinoma In situ	Christopher Jedszko, Bernadette C. Victor, Izabela Podgorski, Bonnie F. Sloane	Cancer Research	2009		DCIS • HGF • uPA • invasion • fibroblast • three-dimensional culture
Stabilization of Liposomes Against Stress Using Polyelectrolytes: Interaction Mechanisms, Influence of pH, Molecular Weight, and Polyelectrolyte Structure	M. Rinaudo F. Quemeneur B. Ppin-Donat	International Journal of Polymer Analysis and Characterization,	2009	Volume 14, Issue 8 November 2009, pages 667 - 677	Adsorption of polyelectrolyte; Chitosan; Hyaluronan; Liposome; Stabilization of lipidic membrane against stresses
Involvement of the HER2 pathway in repair of DNA damage produced by chemotherapeutic agents	Julien J.M. Boone, Jaishree Bhosle, Mike J. Tilby, John A. Hartley, Daniel Hochhauser	Molecular Cancer Therapeutics	2009	8:3015-3023;	Breast cancer Chemotherapy HER2
Developing a novel serum-free cell culture model of skeletal muscle differentiation by systematically studying the role of different growth factors in myotube formation	Mainak Das, John W. Rumsey, Neelima Bhargava, Cassie Gregory, Lisa Riedel, Jung Fong Kang, James J. Hickman	In Vitro Cellular & Developmental Biology - Animal	2009	1071-2690 Volume 45, Number 7	Muscle differentiation - Muscle-nerve coculture - Myotube - Serum-free medium - Synthetic substrate
Mid-anaphase arrest in S. cerevisiae cells eliminated for the function of Cin8 and dynein	A. Gerson-Gurwitz, N. Movshovich, R. Avunie, V. Fridman, K. Moyal, B. Katz, M. A. Hoyt, L. Gheber	Cellular and Molecular Life Sciences	2009	Volume 66, Number 2	Cin8 - dynein - anaphase B - microtubules - sorbitol
Facilitation of fatty acid uptake by CD36 in insulin-producing cells reduces fatty-acid-induced insulin secretion and glucose regulation of fatty acid oxidation	Tina Wallin, Zuheng Ma, Hirotaka Ogata, Ingrid Hals Jørgensen, Mariella Iezzi, Haiyan Wang, Claes B. Wollheim, Anneli Björklund	Biochimica et Biophysica Acta (BBA) - Molecular and Cell Biology of Lipids	2009		Insulin secretion; CD36; INS-1; Palmitate; Oleate; Carnitine palmitoyltransferase
Induction of PUMA- $\alpha$ and down-regulation of PUMA- $\beta$ expression is associated with benzo(a)pyrene-induced apoptosis in MCF-7 cells	Marjo Tampio, Piia Markkanen, Katja A. Puttonen, Eveliina Hageberg, Hannu Heikkinen, Kati Huhtinen, Jarkko Loikkanen, Maija-Riitta Hirvonen, Kirsi H. Vähäkangas	Toxicology Letters	2009	Volume 188, Issue 3, 10 August 2009, Pages 214-222	Polycyclic aromatic hydrocarbons; Cell viability; Flow cytometry; PUMA; ROS; Cytochrome c

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The Pleckstrin Homology Domain Adaptor Protein Bam32/DAPP1 Is Required for Germinal Center Progression	Ting-ting Zhang, Monther Al-Alwan, Aaron J. Marshall	The Journal of Immunology	2009		
Evaluating Protocols for Embryonic Stem Cell Differentiation into Insulin-Secreting $\beta$ -Cells Using Insulin II-GFP as a Specific and Noninvasive Reporter	Ahmi Ben-Yehudah, Carlie White, Christopher S. Navara, Carlos A. Castro, Diego Ize-Ludlow, Benjamin Shaffer, Meena Sukhwani, Clayton E. Mathews, J. Richard Chaillet, Selma F. Witchel.	Cloning and Stem Cells	2009	Volume: 11 Issue 2: June 14	
Separating the spindle, checkpoint, and timer functions of BubR1	Zohra Rahmani, Mary E. Gagou, Christophe Lefebvre, Doruk Emre, Roger E. Karess	The Journal of Cell Biology	2009	Vol. 187, No. 5, 597-605	
Sustained Activation of Akt and Erk1/2 Is Required for <i>Coxiella burnetii</i> Antiapoptotic Activity	Daniel E. Voth, Robert A. Heinzen	Infection and Immunity	2009	p. 205-213, Vol. 77, No. 1	
G protein-coupled receptor kinase 6 controls post-inflammatory visceral hyperalgesia	Niels Eijkelkampa, Cobi J. Heijnen, d, e, , , Sigrid Elsenbruchb, Gerald Holtmann, Manfred Schedlowskib and Annemieke Kavelaars	Brain, Behavior, and Immunity	2009	Volume 23, Issue 1, January 2009, Pages 18-26	Dextran sodium sulphate-induced colitis; GRK6; c-Fos; Behavior; Pain; Visceral hyperalgesia; Interleukin-1 $\beta$ ; TRPV1
A phosphorylation-dependent intramolecular interaction regulates the membrane association and activity of the tumor suppressor PTEN	Meghdad Rahdar, Takanari Inoue, Tobias Meyer, Jin Zhang, Francisca Vazquez, and Peter N. Devreotes	Proceedings of the National Academy of Sciences	2009	Jan 2009; 106: 480 - 485.	IRAP phosphatase PI3K PIP2 PIP3
CARF Is a Vital Dual Regulator of Cellular Senescence and Apoptosis	Kamrul Hasan, Md., Caroline Cheung, Zeenia Kaul, Navjot Shah, Shinji Sakaushi, Kenji Sugimoto, Shigenori Oka, Sunil C. Kaul, and Renu Wadhwa	Journal of Biological Chemistry	2009	Jan 2009; 284: 1664 - 1672	
The SH3 domains of two PCH family members cooperate in assembly of the <i>Schizosaccharomyces pombe</i> contractile ring	Rachel H. Roberts-Galbraith, Jun-Song Chen, Jianqiu Wang, and Kathleen L. Gould,	The Journal of Cell Biology	2009	Vol. 184, No. 1, 113-127	
Live-cell microscopy – tips and tools	Melanie M. Frigault, Judith Lacoste, Jody L. Swift and Claire M. Brown,*	Journal of Cell Science	2009	753-767	CLSM, Multi-photon, TIRF, Live-cell imaging, Spinning disk
Intrakinetochore stretch is associated with changes in kinetochore phosphorylation and spindle assembly checkpoint activity	Thomas J. Maresca, and Edward D. Salmon,	The Journal of Cell Biology	2009	Vol. 184, No. 3, 373-381	
<i>Yersinia enterocolitica</i> differentially modulates RhoG activity in host cells	Bernhard Roppenser, Anja Röder, Moritz Hentschke, Klaus Ruckdeschel and Martin Aepfelbacher	Journal of Cell Science	2009	122, 696-705	<i>Yersinia enterocolitica</i> , RhoG, YopE, RhoGAP, Elmo, Dock180, Invasin
Amplification of Autoimmune Response through Induction of Dendritic Cell Maturation in Inflamed Tissues	Kristin Melli,* , Rachel S. Friedman, Ashley E. Martin*, Erik B. Finger*, Gang Miao*, Gregory L. Szot, Matthew F. Krummel and Qizhi Tang,*	The Journal of Immunology	2009	182: 2590-2600.	
Inferior Vena Cava Ligation Rapidly Induces Tissue Factor Expression and Venous Thrombosis in Rats	Ji Zhou *; Linda May ; Peng Liao ; Peter L. Gross ; and Jeffrey I. Weitz	Arteriosclerosis, Thrombosis, and Vascular Biology.	2009		deep vein thrombosis • inferior vena cava ligation • tissue factor • P-selectin • protein disulfide isomerase
Myosin-IIA and ICAM-1 Regulate the Interchange between Two Distinct Modes of T Cell Migration	Jordan Jacobelli, F. Chris Bennett, Priya Pandurangi, Aaron J. Tooley and Matthew F. Krummel	The Journal of Immunology	2009	182: 2041-2050	
Molecular signatures of cell migration in <i>C. elegans</i> Q neuroblasts	Guangshuo Ou, and Ronald D. Vale,	The Journal of Cell Biology	2009	Vol. 185, No. 1, 77-85	
Endocytosis Is Crucial for Cell Polarity and Apical Membrane Recycling in the Filamentous Fungus <i>Aspergillus oryzae</i>	Yujiro Higuchi, Jun-ya Shoji, Manabu Arioka, and Katsuhiko Kitamoto*	Eukaryotic Cell	2009	p. 37-46, Vol. 8, No. 1	
Tumor necrosis factor- $\alpha$ induces caspase-mediated cleavage of PPAR $\gamma$ in adipocytes	Adilson Guilherme, Gregory J. Tesz, Kalyani V. P. Guntur, and Michael P. Czech	Journal of Biological Chemistry	2009	284, 17082-17091.	
Wac: a new Augmin subunit required for chromosome alignment but not for acentrosomal microtubule assembly in female meiosis	Ana M. Meireles, Katherine H. Fisher, Nathalie Colombié, James G. Wakefield, and Hiroyuki Ohkura	The Journal of Cell Biology	2009	Vol. 184, No. 6, 777-784	
Disruption of the <i>Apex11-1</i> Gene Involved in Peroxisome Proliferation Leads to Impaired Woronin Body Formation in <i>Aspergillus oryzae</i>	Cristopher Salazar Escaño, Praveen Rao Juvvadi, Feng Jie Jin, Tadashi Takahashi, Yasuji Koyama, Shuichi Yamashita, Jun-ichi Maruyama, and Katsuhiko Kitamoto	Eukaryotic Cell	2009	p. 296-305, Vol. 8, No. 3	
The m depolarization that accompanies mitochondrial $Ca^{2+}$ uptake is greater in mutant SOD1 than in wild-type mouse motor terminals	Khanh T. Nguyena, Luis E. García-Chacónb, John N. Barretta,b, Ellen F. Barretta,b and Gavriel Davida,b,	Proceedings of the National Academy of Sciences	2009	vol. 106 r no. 6 r 2007–2011	amyotrophic lateral sclerosis calcium mitochondria motor nerve terminals
GSK3 $\beta$ phosphorylation modulates CLASP–microtubule association and lamella microtubule attachment	Praveen Kumar, Karen S. Lyle, Sarah Gierke, Alexandre Matov, Gaudenz Danuser, and Torsten Wittmann	The Journal of Cell Biology	2009	Vol. 184, No. 6, 895-908	

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A novel role for an APC2-Diaphanous complex in regulating actin organization in <i>Drosophila</i>	Rebecca L. Webb, Meng-Ning Zhou and Brooke M. McCartney	Development	2009	136, 1283-1293	Adenomatous polyposis coli (APC), Diaphanous, <i>Drosophila</i> syncytial development
Spatiotemporal control of mitosis by the conserved spindle matrix protein Megator	Mariana Lince-Faria, Stefano Maffini, Bernard Orr, Yun Ding, Cláudia Florindo, Claudio E. Sunkel, Álvaro Tavares, Jørgen Johansen, Kristen M. Johansen, and Helder Maiato,	The Journal of Cell Biology	2009	Vol. 184, No. 5, 647-657	
Laminin is required for Schwann cell morphogenesis	Wei-Ming Yu, Zu-Lin Chen*, Alison J. North and Sidney Strickland	Journal of Cell Science	2009	122, 929-936	Schwann cell, Myelin, Laminin, Morphogenesis, Cytoskeleton
Olig <sup>2+</sup> Precursors Produce Abducens Motor Neurons and Oligodendrocytes in the Zebrafish Hindbrain	Denise A. Zannino, and Bruce Appel,	The Journal of Neuroscience	2009	29(8):2322-2333	olig2; oligodendrocyte; cranial motor neurons; zebrafish; neural precursors
Estradiol Facilitates the Release of Neuropeptide Y to Suppress Hippocampus-Dependent Seizures	Veronica A. Ledoux, * Tereza Smejkalova, * Renee M. May, Bradley M. Cooke, and Catherine S. Woolley	The Journal of Neuroscience	2009	29(5):1457-1468	catamenial epilepsy; CA1; GABA; large dense-core vesicle; kainic acid; electron microscopy
Analysis of all protein phosphatase genes in <i>Aspergillus nidulans</i> identifies a new mitotic regulator, Fcp1	Sunghun Son and Stephen A. Osmani	Eukaryotic Cell	2009		
Fine tuning of the cytoplasmic Ca <sup>2+</sup> concentration is essential for pollen tube growth	Megumi Iwano *, Tetsuyuki Entani , Hiroshi Shiba , Mituru Kakita , Takeharu Nagai , Hideaki Mizuno , Atsushi Miyawaki , Tsubasa Shouji , Kenichi Kubo , Akira Isogai , and Seiji Takayama	Plant Physiology	2009	Vol. 150, pp. 1322-1334,	
Condensin Regulates the Stiffness of Vertebrate Centromeres	Susana A. Ribeiro*, Jesse C. Gatlin, Yimin Dong, Ajit Joglekar, Lisa Cameron, Damien F. Hudson*, Christine J. Farr], Bruce F. McEwen, Edward D. Salmon, William C. Earnshaw*, and Paola Vagnarelli*	Molecular Biology of the Cell	2009	Vol. 20, Issue 9, 2371-2380	
Microtubule Cytoskeleton Remodeling by Acentriolar Microtubule-organizing Centers at the Entry and Exit from Mitosis in <i>Drosophila</i> Somatic Cells	Sara Moutinho-Pereira*, Alain Debec, and Helder Maiato*	Molecular Biology of the Cell	2009	Vol. 20, Issue 11, 2796-2808	
Nucleolar Separation from Chromosomes during <i>Aspergillus nidulans</i> Mitosis Can Occur Without Spindle Forces	Leena Ukil*, Colin P. De Souza, Hui-Lin Liu, and Stephen A. Osmani	Molecular Biology of the Cell	2009	Vol. 20, Issue 8, 2132-2145	
Mip1 Acts as a Mitotic Scaffold to Spatially Regulate Spindle Assembly Checkpoint Proteins in <i>Aspergillus nidulans</i>	Colin P. De Souza*, Shahr B. Hashmi*, Tania Nayak, Berl Oakley, and Stephen A. Osmani	Molecular Biology of the Cell	2009	Vol. 20, Issue 8, 2146-2159	
Polarized Growth in Budding Yeast in the Absence of a Localized Formin	Lina Gao, and Anthony Bretscher	Molecular Biology of the Cell	2009	Vol. 20, Issue 10, 2540-2548	
GFP-targeting allows visualization of the apicoplast throughout the life cycle of live malaria parasites	Rebecca R. Stanway*, Tina Witt*, Bernd Zobiak†, Martin Aepfelbacher† and Volker T. Heussler*	Biology of the Cell	2009	101, (415-430)	apicoplast, green fluorescent protein (GFP), life cycle, malaria, Plasmodium, spinning-disc microscopy.
A Cell Cycle Timer for Asymmetric Spindle Positioning	Erin K. McCarthy Campbell, Adam D Werts, and Bob Goldstein	Public Library of Science One	2009	Volume 7   Issue 4	
Carbachol Regulates Pacemaker Activities in Cultured Interstitial Cells of Cajal from the Mouse Small Intestine	Keum Young So, Sang Hun Kim, Hong Moon Sohn, Soo Jin Choi, Shankar Prasad Parajuli, Seok Choi, Cheol Ho Yeum, Pyung Jin Yoon and Jae Yeoul Jun	Molecules and Cells	2009	Volume 27, Number 5	carbachol - interstitial cells of Cajal - intestine - muscarinic receptor
The Mating-specific G Interacts with a Kinesin-14 and Regulates Pheromone-induced Nuclear Migration in Budding Yeast	Sofia V. Zaichick*, Metodi V. Metodiev*, Scott A. Nelson,]], Oleksii Durbrovskiy*, Edward Draper*,]], John A. Cooper]], and David E. Stone	Molecular Biology of the Cell	2009	Vol. 20, Issue 12, 2820-2830, June 15,	
Role of Inn1 and its interactions with Hof1 and Cyk3 in promoting cleavage furrow and septum formation in <i>S. cerevisiae</i>	Ryuichi Nishihama, Jennifer H. Schreiter, Masayuki Onishi, Elizabeth A. Vallen, Julia Hanna, Katarina Moravcevic, Margaret F. Lippincott, Haesun Han, Mark A. Lemmon, John R. Pringle, and Erfei Bi	The Journal of Cell Biology	2009	Vol. 185, No. 6, 995-1012	
Actin Turnover Is Required for Myosin-Dependent Mitochondrial Movements in <i>Arabidopsis</i> Root Hairs	Maozhong Zheng, Martina Beck, Jens Müller, Tong Chen, Xiaohua Wang, Feng Wang, Qinli Wang, Yuqing Wang, Frantisek Baluska, David C. Logan, Jozef Samaj, Jinxing Lin*	Public Library of Science ONE	2009	Volume 4   Issue 6   e5961	

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Inactivation of aPKC1 Reveals a Context Dependent Allocation of Cell Lineages in Preimplantation Mouse Embryos	Nicolas Dard, Tran Le, Bernard Maro, Sophie Louvet-Valle'e	Public Library of Science ONE	2009	4(9): e7117	
Arabidopsis cortical microtubules position cellulose synthase delivery to the plasma membrane and interact with cellulose synthase trafficking compartments	Ryan Gutierrez, Jelmer J. Lindeboom, Alex R. Paredez, Anne Mie C. Emons, David W. Ehrhardt	Nature Cell Biology	2009	11, 797 - 806	
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An Approach for Reliably Investigating Hippocampal Sharp Wave-Ripples In Vitro	Nikolaus Maier, Genela Morris, Friedrich W. Jochenning, Dietmar Schmitz	Public Library of Science ONE	2009	Volume 4   Issue 9   e6925	
A Nanoporous, Transparent Microcontainer for Encapsulated Islet Therapy	Barjor Gimi, Ph.D., Joonbum Kwon, Andrey Kuznetsov, M.S., Behroze Vachha, M.D., Ph.D., Richard L. Magin, Ph.D., Louis H. Philipson, M.D., Ph.D., and Jeong-Bong Lee, Ph.D.	Journal of Diabetes Science and Technology	2009	3(2): 297–303.	cell encapsulation, cell encapsulation therapy, cell therapy, immunoisolation, immunoprotection, microcontainers
Messenger RNA targeting to endoplasmic reticulum stress signalling sites	Tomás Aragón, Eelco van Anken, David Pincus, Iana M. Serafimova, Alexei V. Korennykh, Claudia A. Rubio Peter Walter	Nature	2009	457, 736-740	
Quantitative analysis of the protein corona on FePt nanoparticles formed by transferrin binding	Xiue Jiang, Stefan Weise, Margit Hafner, Carlheinz Röcker, Feng Zhang, Wolfgang J. Parak and G.Ulrich Nienhaus	Journal of the Royal Society Interface	2009		protein corona; fluorescence correlation spectroscopy; cellular nanoparticle uptake; confocal microscopy; nanoparticle–protein interactions; nano-biointerface
Colloidal Flying Carpets	Nienke Geerts, Erika Eiser	Condensed Matter	2009		Condensed Matter, Soft Condensed Matter, Materials Science
Multisite Phosphorylation of the Guanine Nucleotide Exchange Factor Cdc24 during Yeast Cell Polarization	Stephanie C. Wai, Scott A. Gerber, Rong Li	Public Library of Science ONE	2009	Volume 4   Issue 8   e6563	
Assembly of the Murine Leukemia Virus Is Directed towards Sites of Cell–Cell Contact	Jing Jin, Nathan M. Sherer, Gisela Heidecker, David Derse, Walther Mothes	The Public Library of Science Biology	2009	Volume 7   Issue 7   e1000163	
UNC-6 (Netrin) Orients the Invasive Membrane of the Anchor Cell in <i>C. elegans</i>	Joshua W. Ziel, Elliott J. Hagedorn, Anjon Audhya, David R. Sherwood	Nature Cell Biology	2009	11(2): 183–189.	
Shape reconstruction of subcellular structures from live cell fluorescence microscopy images.	Helmuth JA, Burckhardt CJ, Greber UF, Sbalzarini IF.	Journal of structural biology	2009	Jul;167(1):1-10	Virus entry, Endosomal trafficking, Image analysis, Shape reconstruction, Deconvolution
Membrane Sandwich Electroporation for In Vitro Gene Delivery	Fei, Zhengzheng		2009		
GOLPH3 modulates mTOR signalling and rapamycin sensitivity in cancer	Kenneth L. Scott, Omar Kabbarah, Mei-Chih Liang, Elena Ivanova, Valsamo Anagnostou, Joyce Wu, Sabin Dhakal, Min Wu, Shujuan Chen, Tamar Feinberg, Joseph Huang, Abdel Saci, Hans R. Widlund, David E. Fisher, Yonghong Xiao, David L. Rimm, Alexei Protopopov	Nature	2009	459, 1085-1090	
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Motor domain phosphorylation and regulation of the <i>Drosophila</i> kinesin 13, KLP10A	Vito Mennella, Dong-Yan Tan, Daniel W. Buster, Ana B. Asenjo, Uttama Rath, Ao Ma, Hernando J. Sosa, and David J. Sharp	The Journal of Cell Biology	2009	Vol. 186, No. 4, 481-490	
How Structure, Ca Signals, and Cellular Communications Underlie Function in Precapillary Arterioles	L. Borisova Susan Wray D. Eisner T. Burdyga	Circulation Research	2009		calcium • vascular smooth muscle • endothelium
Delayed treatment with a p53 inhibitor enhances recovery in stroke brain	Yu Luo, PhD, Chi-Chung Kuo, MD, Hui Shen, MD, Jenny Chou, BS, Nigel H. Greig, PhD, Barry J. Hoffer, MD PhD, and Yun Wang, MD PhD	Annals of Neurology	2009	Volume 65 Issue 5, Pages 520 - 530	

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Hsp90 Regulates the Function of Argonate 2 and Its Recruitment to Stress Granules and P-Bodies	Justin M. Pare*, Nasser Tahbaz, Joaquín López-Orozco*, Paul LaPointe*, Paul Lasko, and Tom C. Hobman*	MBC in Press	2009	Vol. 20, Issue 14, 3273-3284	
The accessory subunit of mitochondrial DNA polymerase determines the DNA content of mitochondrial nucleoids in human cultured cells	M. Di Re, H. Sembongi, J. He, A. Reyes, T. Yasukawa, P. Martinsson, L. J. Bailey, S. Goffart, J. D. Boyd-Kirkup, T. S. Wong, A. R. Fersht, J. N. Spelbrink, I. J. Holt	Nucleic Acids Research	2009	Vol. 37, No. 17 5701-5713	
Proximity-based protein thiol oxidation by H <sub>2</sub> O <sub>2</sub> -scavenging peroxidases	Marcus Gutscher, Mirko C. Sobotta, Guido H. Wabnitz, Seda Ballikaya, Andreas J. Meyer, Yvonne Samstag Tobias P. Dick	Journal of Biological Chemistry	2009		ENZYMES/Oxidation-Reduction PROTEIN/Disulfide SULFHYDRYLS/Disulfide SULFHYDRYLS/Thiol Hydrogen Peroxide Peroxidase Redox signaling Redox-sensitive GFP
A Link between Aurora Kinase and Clp1/Cdc14 Regulation Uncovered by the Identification of a Fission Yeast Borealin-Like Protein	K. Adam Bohnert, Jun-Song Chen, Dawn M. Clifford, Craig W. Vander Kooi, Kathleen L. Gould	Molecular Biology of the Cell	2009	Vol. 20, 3646–3659,	
Dynamics of Telomeres and Promyelocytic Leukemia Nuclear Bodies in a Telomerase-negative Human Cell Line	Thibaud Jegou, Inn Chung, Gerrit Heuvelman, Malte Wachsmuth, Sabine M. Görisch, Karin M. Greulich-Bode, Petra Boukamp, Peter Lichter, Karsten Rippe	Molecular Biology of the Cell	2009	Vol. 20, 2070–2082,	
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THE NADPH OXIDASE NOX4 RESTRICTS THE REPLICATIVE LIFESPAN OF HUMAN ENDOTHELIAL CELLS	Barbara Lener, Rafał Koziel, Haymo Pircher, Eveline Hütter, Ruth Greussing, Dietmar Herndler-Brandstetter, Martin Hermann, Hermann Unterluggauer, Pidder Jansen-Dürr	Biochemical Journal	2009		
Investigation of the Biophysical and Cell Biological Properties of Ferroportin, a Multi-Pass Integral Membrane Protein Iron Exporter	Adrian E. Rice, Michael J. Mendez, Craig A. Hokanson, Douglas C. Rees, Pamela J. Björkman		2009	386(3): 717–732.	
Nucleocytoplasmic Shuttling of the TACC Protein Mia1p/Alp7p Is Required for Remodeling of Microtubule Arrays during the Cell Cycle	Yuen Chyao Ling, Aleksandar Vjestica, Snezhana Oliferenko	Public Library of Science ONE	2009	4(7): e6255.	
Sodium-calcium exchanger complexed with GM1 ganglioside in nuclear membrane transfers calcium from nucleoplasm to endoplasmic reticulum	Gusheng Wu, Xin Xie, Zi-Hua Lu, Robert W. Ledeen	Proceedings of the National Academy of Sciences	2009	vol. 106 no. 26 10829-10834	cameleon calcium indicator nuclear calcium nuclear envelope ER calcium ganglioside function
Altered dynein-dependent transport in piRNA pathway mutants	Caryn Navarro, Simon Bullock, Ruth Lehmann	Proceedings of the National Academy of Sciences	2009	vol. 106 no. 24 9691-9696	DNA damage in Drosophila germline retrotransposon RNA transport
T cell receptor signaling and immunological synapse stability require myosin IIA	Tal Ilani, Gaia Vasiliver-Shamis, Santosh Vardhana, Anthony Bretscher, Michael L. Dustin	Nature Immunology	2009	10(5): 531–539.	
Regulator of G protein signaling 2 mediates cardiac compensation to pressure overload and antihypertrophic effects of PDE5 inhibition in mice	Eiki Takimoto, Norimichi Koitabashi, Steven Hsu, Elizabeth A. Ketner, Manling Zhang, Takahiro Nagayama, Djahida Bedja, Kathleen L. Gabrielson, Robert Blanton, David P. Siderovski, Michael E. Mendelsohn, David A. Kass	The Journal of Clinical Investigation	2009	119(2): 408–420	
Human Condensin Function Is Essential for Centromeric Chromatin Assembly and Proper Sister Kinetochore Orientation	Alexander Samoshkin, Alexei Arnaoutov, Lars E. T. Jansen, Ilia Ouspenski, Louis Dye, Tatiana Karpova, James McNally, Mary Dasso, Don W. Cleveland, Alexander Strunnikov	Public Library of Science ONE	2009	4(8): e6831.	
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Compression regulates mitotic spindle length by a mechanochemical switch at the poles	Dumont S, Mitchison TJ.	Current Biology	2009	Jul 14;19(13):1086-95	
The Retromer Coat Complex Coordinates Endosomal Sorting and Dynein-Mediated Transport, with Carrier Recognition by the trans-Golgi Network	Thomas Wassmer, Naomi Attar, Martin Harterink, Jan R.T. van Weering, Colin J. Traer, Jacqueline Oakley, Bruno Goud, David J. Stephens, Paul Verkade, Hendrik C. Korswagen, Peter J. Cullen	Developmental Cell	2009	17(1): 110–122.	CELLBIO
In Vivo Colocalisation of oskar mRNA and Trans-Acting Proteins Revealed by Quantitative Imaging of the Drosophila Oocyte	Musa M. Mhlanga, Diana P. Bratu, Auguste Genovesio, Agata Rybarska, Nicolas Chenouard, Ulf Nehrbass, Jean-Christophe Olivo-Marin	Public Library of Science ONE	2009		
Viral Mimicry of Cdc2/Cyclin-Dependent Kinase 1 Mediates Disruption of Nuclear Lamina during Human Cytomegalovirus Nuclear Egress	Sofia Hamirally, Jeremy P. Kamil, Yasmine M. Ndassa-Colday, Alison J. Lin, Wan Jin Jahng, Moon-Chang Baek, Sarah Noton, Laurie A. Silva, Martha Simpson-Holley, David M. Knipe, David E. Golan, Jarrod A. Marto, Donald M. Coen	Public Library of Science Pathogens	2009	v.5(1)	
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Equatorin: Identification and Characterization of the Epitope of the MN9 Antibody in the Mouse.	Yamatoya K, Yoshida K, Ito C, Maekawa M, Yanagida M, Takamori K, Ogawa H, Araki Y, Miyado K, Toyama Y, Toshimori K.	Biology of reproduction	2009	Jul 15.	
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Angiotensin II and Hypertonicity Modulate Proximal Tubular Aquaporin 1 (AQP1) Expression	Richard Bouley, Zaira Palomino, Shiow-Shih Tang, Paula Nunes, Hiroyuki Kobori, Hua A. J. Lu, Winnie W Shum, Ivan Sabolic, Dennis Brown, Julie R. Ingelfinger, Flavia F. Jung	The American Journal of Physiology - Renal Physiology	2009		
Receptor-Targeted Nanoparticles for In vivo Imaging of Breast Cancer	Lily Yang, Xiang-Hong Peng, Y. Andrew Wang, Xiaoxia Wang, Zehong Cao, Chunchun Ni, Prasanthi Karna, Xinjian Zhang, William C. Wood, Xiaohu Gao, Shuming Nie Hui Mao,	Clinical Cancer Research	2009	15, 4722	
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Interactions between Saos-2 cells and microtextured amorphous diamond or amorphous diamond hybrid coated surfaces with different wettability properties	Katja Myllymaa, Sami Myllymaa, Hannu Korhonen, Mikko J. Lammi, Virpi Tiitudo and Reijo Lappalainen	Diamond and Related Materials	2009	Volume 18, Issue 10, October 2009, Pages 1294-1300	Diamond-like carbon; Pulsed laser deposition (PLD); Surface energy; Biomedical applications
Mapping of spatiotemporal heterogeneous particle dynamics in living cells	Michael H. G. Duits, Yixuan Li, Siva A. Vanapalli, Frieder Mugele	Physical Review E	2009	Volume 79 Issue 5	
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Regulation of endosomal membrane traffic by a Gadin/AP-1/kinesin KIF5 complex	Michael R. Schmidta, Tanja Maritzena, Viktoria Kukhtina, Victoria A. Higman, Laura Doglio, Naomi N. Barak, Holger Strauss, Hartmut Oschkinat, Carlos G. Dotti and Volker Haucke	Proceedings of the National Academy of Sciences	2009	vol. 106 no. 36 15344-15349	motor-protein driven transport ,clathrin adaptor AP-1 ,endosomal vesicles ,recycling
Expression of urokinase-type plasminogen activator receptor is increased during epileptogenesis in the rat hippocampus.	Lahtinen L, Huusko N, Myöhänen H, Lehtivarjo AK, Pellinen R, Turunen MP, Ylä-Herttua S, Pirinen E, Pitkänen A.	Neuroscience.	2009	Sep 29;163(1):316-28.	
TNF activates astrocytes and catecholaminergic neurons in the solitary nucleus: implications for autonomic control.	Hermann GE, Rogers RC.	Brain research	2009	Jun 1;1273:72-82.	
The Drosophila afadin homologue Canoe regulates linkage of the actin cytoskeleton to adherens junctions during apical constriction	Jessica K. Sawyer, Nathan J. Harris, Kevin C. Slep, Ulrike Gaul, Mark Peifer	The Journal of Cell Biology	2009	Vol. 186, No. 1, 57-73	
Get Ready to Wnt: Prepatterning in Neuromuscular Junction Formation	Bin Zhang, Wen C. Xiong , Lin Mei	Developmental Cell	2009	Volume 16, Issue 3, 325-327	
Proper timing of cytokinesis is regulated by Schizosaccharomyces pombe Etd1	Juan Carlos García-Cortés, Dannel McCollum	The Journal of Cell Biology	2009	Vol. 186, No. 5, 739-753	
The Sodium-Hydrogen Exchanger NHE1 Is an Akt Substrate Necessary for Actin Filament Reorganization by Growth Factors	Marcel E. Meima,Bradley A. Webb,H. Ewa Witkowska,Diane L. Barber	Journal of Biological Chemistry	2009	284, 26666-26675.	
Tumor Necrosis Factor- $\alpha$ Induces Caspase-mediated Cleavage of Peroxisome Proliferator-activated Receptor $\gamma$ in Adipocytes	Adilson Guilherme, Gregory J. Tesz, Kalyani V. P. Guntur and Michael P. Czech	The Journal of Biological Chemistry,	2009	284, 17082-17091.	
Dendrite branching and self-avoidance are controlled by Turtle, a conserved IgSF protein in Drosophila	Hong Long, Yimiao Ou, Yong Rao ,Donald J. van Meyel	Development	2009	136, 3475-3484	Neuron, Dendrite, Drosophila, Arborization, Repulsion
Coronin 2A regulates a subset of focal-adhesion-turnover events through the cofilin pathway	Thomas W. Marshall, Heather L. Aloor and James E. Bear	Journal of Cell Science	2009	122, 3061-3069	Coronin, Cofilin, Slingshot
Myosin II regulation during C. elegans embryonic elongation: LET-502/ROCK, MRCK-1 and PAK-1, three kinases with different roles	Christelle Gally, Frédéric Wissler, Hala Zahreddine, Sophie Quintin, Frédéric Landmann, Michel Labouesse	Development	2009	136, 3109-3119	Actin, Non-muscle myosin II, Morphogenesis, Phosphorylation, Rho kinase, C. elegans
The dynamic properties of intermediate filaments during organelle transport	Lynne Chang, Kari Barlan, Ying-Hao Chou, Boris Grin, Margot Lakonishok, Anna S. Serpinskaya, Dale K. Shumaker, Harald Herrmann, Vladimir I. Gelfand, Robert D. Goldman	Journal of Cell Science	2009	122, 2914-2923	Intermediate filament, Melanosome, Transport, Vimentin
AP-1 and KIF13A coordinate endosomal sorting and positioning during melanosome biogenesis	Cédric Delevoeye, Ilse Hurbain, Danièle Tenza, Jean-Baptiste Sibarita, Stéphanie Uzan-Gafsou, Hiroshi Ohno, Willie J.C. Geerts, Arie J. Verkleij, Jean Salamero, Michael S. Marks, Graça Raposo	The Journal of Cell Biology	2009	Vol. 187, No. 2, 247-264	
Low pH-Triggered Beta-Propeller Switch of the Low-Density Lipoprotein Receptor Assists Rhinovirus Infection	Tuende Konecsni, Ursula Berka, Angela Pickl-Herk, Gerhard Bilek, Abdul Ghafoor Khan, Leszek Gajdzig, Renate Fuchs, Dieter Blaas	Journal of Virology	2009	p. 10922-10930, Vol. 83, No. 21	
Ana3 is a conserved protein required for the structural integrity of centrioles and basal bodies	Naomi R. Stevens, Jeroen Dobbelaere, Alan Wainman, Fanni Gergely,Jordan W. Raff	The Journal of Cell Biology	2009		
G2 histone methylation is required for the proper segregation of chromosomes	Ryan Heit, Jerome B. Rattner, Gordon K. T. Chan,Michael J. Hendzel	Journal of Cell Science	2009	122, 2957-2968	Chromosome alignment, Methylation, Mitoticcheckpoint, Pericentric heterochromatim, SUV39
Gating, permselectivity and pH-dependent modulation of channels formed by connexin57, a major connexin of horizontal cells in the mouse retina	Nicolas Palacios-Prado, Stephan Sonntag, Vytenis A. Skeberdis, Klaus Willecke,Feliksas F. Bukauskas	The Journal of Physiology	2009	587, 3251-3269	
Upregulation of three Drosophila homologs of human chromosome 21 genes alters synaptic function: Implications for Down syndrome	Karen T. Chang, Kyung-Tai Min	Proceedings of the National Academy of Sciences	2009	vol. 106 no. 40 17117-17122	Down syndrome ,nebula ,synaptojanin ,dap160
Endothelial cell protein C receptor cellular localization and trafficking: potential functional implications	Ramesh C. Nayak, Prosenjit Sen, Samit Ghosh, Ramakrishnan Gopalakrishnan, Charles T. Esmon, Usha R. Pendurthi, Vijaya Mohan Rao	Blood	2009	Vol. 114, No. 9, pp. 1974-1986	
A Rab GAP cascade defines the boundary between two Rab GTPases on the secretory pathway	Félix E. Rivera-Molinaa , Peter J. Novick	Proceedings of the National Academy of Sciences	2009	vol. 106 no. 34 14408-14413	Golgi, membrane traffic, organelle
Rab5-mediated endocytosis of activin is not required for gene activation or long-range signalling in Xenopus	Anja I. Hagemann, Xin Xu, Oliver Nentwich, Marko Hyvonen, James C. Smith	Development	2009	136, 2803-2813	Xenopus, TGF- $\beta$ , Smads, Activin, Nodal-related proteins, Bimolecular fluorescence complementation (BiFC), Morphogen

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Voltage-independent calcium channels mediate lipopolysaccharide-induced hyporeactivity to endothelin-1 in the rat aorta	Mohammed S. H. El-Awady, Sergey V. Smirnov, Malcolm L. Watson	American Journal of Physiology- Heart and Circulatory	2009	296: H1408-H1415,	calcium sensitization; sepsis; vascular smooth muscle
Insulin uptake across the luminal membrane of the rat proximal tubule in vivo and in vitro	Pavel Kolman, Angelo Pica, Nicolas Carvou, Alan Boyde, Shamshad Cockcroft, Andrew Loesch, Arnold Pizzey, Mariadelina Simeoni, Giovambattista Capasso, Robert J. Unwin	The American Journal of Physiology - Renal Physiology	2009	296: F1227-F1237	intravital confocal microscopy; fluorescence; kidney
Long-term, Six-dimensional Live-cell Imaging for the Mouse Preimplantation Embryo That Does Not Affect Full-term Development	Kazuo YAMAGATA, Rinako SUETSUGU ,Teruhiko WAKAYAMA	Journal of Reproduction and Development	2009	Vol. 55 (2009) , No. 3 June pp.343-350	Embryo assessment, Full-term development, Live-cell imaging, Preimplantation embryo, Spinning-disk confocal microscopy
Integrated microscopy for real-time imaging of mechanotransduction studies in live cells	Andreea Trache,Soon-Mi Lim	Journal of Biomedical Optics	2009	Volume 14 / Issue 3	
Role of kinesin light chain-2 of kinesin-1 in the traffic of Na,K-ATPase-containing vesicles in alveolar epithelial cells	Humberto E. Trejo, Emilia Lecuona, Doris Grillo, Igal Szleifer, Oksana E. Nekrasova, Vladimir I. Gelfand, and Jacob I. Sznajder	The Journal of the Federation of American Societies for Experimental Biology.	2009		
Regulation of the Proteasome by Neuronal Activity and Calcium/Calmodulin-dependent Protein Kinase II	Stevan N. Djakovic‡, Lindsay A. Schwarz‡, Barbara Barylko, George N. DeMartino§ and Gentry N. Patrick‡,	Journal of Biological Chemistry	2009	284, 26655-26665.	
Role of sarcoplasmic reticulum in mitochondrial permeability transition and cardiomyocyte death during reperfusion	Marisol Ruiz-Meana, Arancha Abellán, Elisabet Miró-Casas, Esperanza Agulló, and David Garcia-Dorado	The American Journal of Physiology - Heart and Circulatory Physiology	2009	297: H1281-H1289	calcium; mitochondria; hypercontracture
Cell polarity emerges at first cleavage in sea urchin embryos.	Alford LM, Ng MM, Burgess DR.	Developmental biology	2009	Jun 1;330(1):12-20	
The Adapter Protein SLP-76 Mediates "Outside-In" Integrin Signaling and Function in T Cells	R. G. Baker, C. J. Hsu, D. Lee, M. S. Jordan, J. S. Maltzman, D. A. Hammer, T. Baumgart, G. A. Koretzky	Molecular and Cellular Biology	2009	October 2009, p. 5578-5589, Vol. 29, No. 20	
Mapping Cofilin-Actin Rods in Stressed Hippocampal Slices and the Role of cdc42 in Amyloid-β-Induced Rods	Richard C. Davis, Michael T. Maloney, Laurie S. Minamide, Kevin C. Flynn, Matthew A. Stonebraker, James R. Bamburg	Journal of Alzheimer's Disease	2009	Volume 18, Number 1 35-50	Actin, actin depolymerizing factor (ADF)/cofilin, actin inclusions, Alzheimer's disease, amyloid-β, ischemic brain injury
A polycomb repressive complex 2 gene regulates apogamy and gives evolutionary insights into early land plant evolution	Yosuke Okano, Naoki Aono, Yuji Hiwatashi, Takashi Murata, Tomoaki Nishiyam, Takaaki Ishikawa, Minoru Kubo Mitsuyasu Hasebe	Proceedings of the National Academy of Sciences	2009	vol. 106 no. 38 16321-16326	branching PRC2 protracheophytes
Cell-Size-Dependent Spindle Elngation in the Caenorhabditis elegans Early Embryo	Yuki Hara, Akatsuki Kimura	Current Biology	2009	Volume 19, Issue 18, 1549-1554	
A Small Molecule That Blocks Fat Synthesis By Inhibiting the Activation of SREBP	Shinji Kamisuki, Qian Mao, Lutfi Abu-Elheiga, Ziwei Gu, Akira Kugimiya, Youngjoo Kwon, Tokuyuki Shinohara, Yoshinori Kawazoe, Shin-ichi Sato, Koko Asakura, Hea-Young Park Choo , Juro Sakai, Salih J. Waki,Motonari Uesugi	Chemistry & Biology	2009	Volume 16, Issue 8, 882-892	
The dynamin-related GTPase Drp1 is required for embryonic and brain development in mice	Junko Wakabayashi, Zhongyan Zhang, Nobunao Wakabayashi, Yasushi Tamura, Masahiro Fukaya, Thomas W. Kensler, Miho Iijima, Hiromi Sesaki	The Journal of Cell Biology	2009	Vol. 186, No. 6, 805-816	
Recruitment of functionally distinct membrane proteins to chromatin mediates nuclear envelope formation in vivo	Daniel J. Anderson, Jesse D. Vargas, Joshua P. Hsiao, and Martin W. Hetzer	The Journal of Cell Biology	2009		
An expression screen for RhoGEF genes involved in C. elegans gonadogenesis.	Ziel JW, Matus DQ, Sherwood DR.	Gene expression patterns : GEP	2009	Sep;9(6):397-403.	
Wnt Signaling Mediates Experience-Related Regulation of Synapse Numbers and Mossy Fiber Connectivities in the Adult Hippocampus	Nadine Gogolla, Ivan Galimberti, Yuichi Deguchi,Pico Caroni	Neuron,	2009	Volume 62, Issue 4, 510-525	
Integrin Acts Upstream of Netrin Signaling to Regulate Formation of the Anchor Cell's Invasive Membrane in C. elegans	Elliott J. Hagedorn, Hanako Yashiro, Joshua W. Ziel, Shinji Ihara, Zheng Wang,David R. Sherwood	Developmental Cell	2009	Volume 17, Issue 2, 187-198,	
3-D measurement of osmotic dehydration of isolated and adhered PC-3 cells	Takashi Yoshimori, Hiroshi Takamatsu	Cryobiology	2009	Volume 58, Issue 1, February 2009, Pages 52-61	Osmotic dehydration; Hydraulic conductivity; Shape change; Confocal microscopy; Image processing; Perfusion microscope; Adhered cells; Cell suspension

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Morphological definition of CD71 positive reticulocytes by various staining techniques and electron microscopy compared to reticulocytes detected by an automated hematology analyzer	Mari Konoa Tamiaki Kondo, Yuri Takagi, Atsushi Wada and Keiji Fujimoto	Clinica Chimica Acta	2009	Volume 404, Issue 2, 27 June 2009, Pages 105-110	Reticulocyte; Enumeration; CD71 (transferrin receptor); New Methylene Blue; Flow cytometry; Hematology analyzer
Single-molecule imaging of $\beta$ -actin mRNAs in the cytoplasm of a living cell	Mai Yamagishi, Yo Ishihama, Yoshitaka Shirasaki, Hideki Kurama, Takashi Funatsu	Experimental Cell Research	2009	Volume 315, Issue 7, 15 April 2009, Pages 1142-1147	mRNA localization; Single-particle tracking; Actin network; Brownian motion
A Separate Role for ICAM-1 and Fluid Shear in Regulating Leukocyte Interactions with Straight Regions of Venular Wall and Venular Convergences	Ronen Sumagin, Kathleen A. Lamkin-Kennard, Ingrid H. Sarelius	Microcirculation	2009	Vol. 16, No. 6, Pages 508-520	
Stabilization of anaphase midzone microtubules is regulated by Rho during cytokinesis in human fibrosarcoma cells	Masamitsu Kanadaa, Akira Nagasakia, Taro Q.P. Uyeda	Experimental Cell Research	2009	Volume 315, Issue 16, 1 October 2009, Pages 2705-2714	HT1080 cells; Blebbistatin; C3; MKLP1; Ect2; Centralspindlin
The conjugation of diphtheria toxin T domain to poly(ethylenimine) based vectors for enhanced endosomal escape during gene transfection.	Kakimoto S, Hamada T, Komatsu Y, Takagi M, Tanabe T, Azuma H, Shinkai S, Nagasaki T.	Biomaterials	2009	Jan;30(3):402-8	
Dissection of Rab7 localization on Mycobacterium tuberculosis phagosome.	Seto S, Matsumoto S, Ohta I, Tsujimura K, Koide Y.	Biochemical and biophysical research communications	2009	Sep 18;387(2):272-7	
Single molecule tracking of quantum dot-labeled mRNAs in a cell nucleus.	Ishihama Y, Funatsu T.	Biochemical and biophysical research communications	2009	Mar 27;381(1):33-8.	
ERCC-1 (E) expression and its effect on survival in patients (pts) receiving concurrent cisplatin (C) and radiation (R) for locally advanced head and neck cancer (HNC)	C. T. Lan, R. H. Amirkhan, T. Gray, Y. Xie, J. E. Dowell	Journal of Clinical Oncology	2009	Vol 27, No 15S	
Prognostic Significance of the Cancer Stem Cell Markers CD133, CD44, and CD166 in Colorectal Cancer	David Horst, Lydia Kriegl, Jutta Engel, Thomas Kirchner, Andreas Jung	Cancer Investigation	2009	Vol. 27, No. 8, Pages 844-850	
Assembly of an intact Golgi complex requires phospholipase A2 (PLA2) activity, membrane tubules, and dynein-mediated microtubule transport.	Judson BL, Brown WJ.	Biochemical and biophysical research communications	2009	Nov 20;389(3):473-7.	
M-Type Phospholipase A2 Receptor as Target Antigen in Idiopathic Membranous Nephropathy	Laurence H. Beck, Jr., M.D., Ph.D., Ramon G.B. Bonegio, M.D., Gérard Lambeau, Ph.D., David M. Beck, B.A., David W. Powell, Ph.D., Timothy D. Cummins, M.S., Jon B. Klein, M.D., Ph.D., and David J. Salant, M.D.	The New England Journal of Medicine	2009	Volume 361:11-21 July 2, 2009 Number 1	
In vitro generation of murine myeloid dendritic cells from CD34-positive precursors.	Stephen TL, Harms F, Fabri M, Flenner E, Bessler M, Hafke H, Meemboor S, Kalka C, Kalka-Moll W.	Cell biology international	2009	Jul;33(7):778-84	
Cytoplasmic phospholipase A2 antagonists inhibit multiple endocytic membrane trafficking pathways.	Doody AM, Antosh AL, Brown WJ.	Biochemical and biophysical research communications	2009	Oct 30;388(4):695-9	
A role for dynein in the inhibition of germ cell proliferative fate	Maia Dorsett, Tim Schedl	Molecular and Cellular Biology	2009		
Molecular mechanisms of the defective hepcidin inhibition in TMPRSS6 mutations associated with iron-refractory iron deficiency anemia	Laura Silvestri, Flavia Guillem, Alessia Pagani, Antonella Nai, Claire Oudin, Muriel Silva, Fabienne Toutain, Caroline Kannengiesser Carole Beaumont, Clara Camaschella, Bernard Grandchamp	Blood,	2009	28 May 2009, Vol. 113, No. 22, pp. 5605-5608.	
In Vitro Characterization of A Targeted, Dye-Loaded Nanodevice for Intraoperative Tumor Delineation	Orringer, Daniel A. M.D.; Koo, Yong-Eun L. Ph.D.; Chen, Thomas; Kim, Gwangseong Ph.D.; Hah, Hoe Jin Ph.D.; Xu, Hao Ph.D.; Wang, Shouyan Ph.D.; Keep, Richard Ph.D.; Philbert, Martin A. Ph.D.; Kopelman, Raoul Ph.D.; Sagher, Oren M.D.	Neurosurgery	2009	Volume 64 - Issue 5 - p 965-972	
Oligomerization Is Crucial for the Stability and Function of Heme Oxygenase-1 in the Endoplasmic Reticulum	Hsuan-Wen Hwang, Jay-Ron Lee, Kuan-Yu Chou, Ching-Shu Suen, Ming-Jing Hwang, Chinpan Chen, Ru-Chi Shieh, Lee-Young Chau	Journal of Biological Chemistry	2009	284, 22672-22679.	
Electrochemical modulation of epithelia formation using conducting polymers	Svennersten K, Bolin MH, Jager EW, Berggren M, Richter-Dahlfors A.	Biomaterials	2009	Oct;30(31):6257-64	
Microspheres as a vehicle for biomolecule delivery to neural stem cells.	Gennet N, Alexander LM, Sánchez-Martín RM, Behrendt JM, Sutherland AJ, Brickman JM, Bradley M, Li M.	New biotechnology	2009	Sep;25(6):442-9	

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Cell/surface interactions of human osteo-sarcoma (HOS) cells and micro-patterned polydimethylsiloxane (PDMS) surfaces	G. Fua, b and W.O. Soboyejo	Materials Science and Engineering: C	2009	Volume 29, Issue 6, 1 August 2009, Pages 2011-2018	Cell spreading and alignment; Micro-groove geometry; Immuno-fluorescence staining
Calreticulin mediated glucocorticoid receptor export is involved in $\beta$ -catenin translocation and Wnt signalling inhibition in human osteoblastic cells	Anu Oikkuu, Anitta Mahonena	BONE	2009	Volume 44, Issue 4, Pages 555-565	Osteoblast, Glucocorticoids, Wnt signalling, $\beta$ -catenin, Calreticulin
Dynamics of ballistically injected latex particles in living human endothelial cells.	Li Y, Vanapalli SA, Duits MH.	Biorheology	2009	46(4):309-21	
Human embryonic stem cells which express hrGFP in the undifferentiated state and during dopaminergic differentiation	Jia Chen, Shang-Yi Tsai, Tandis Vazin, Mark Coggiano, William J. Freed	Restorative Neurology and Neuroscience	2009	Volume 27, Number 4 / 2009	Human embryonic stem cells, EF1-hrGFP reporter gene, nucleofection, BGO1V2-EFG, histone deacetylase, neural differentiation, dopaminergic
Somatostatin modulates mast cell-induced responses in murine spinal neurons and satellite cells	Joeri Van Op den bosch, Luc Van Nassauw, Eric Van Marck, Jean-Pierre Timmermans	The American Journal of Physiology	2009		dorsal root ganglion; inflammation; neuroimmune interaction; mouse; enteric inflammation
Cdc42-dependent leading edge coordination is essential for interstitial dendritic cell migration	Tim Lammermann, Jorg Renkawitz, Xunwei Wu, Karin Hirsch, Cord Brakebusch, and Michael Sixt*	Blood	2009	4 June, Vol. 113, No. 23, pp. 5703-5710.	
Soluble adenylyl cyclase-dependent microtubule disassembly reveals a novel mechanism of endothelial cell retraction	Nutan Prasain, Mikhail Alexeyev, Ron Balczon, and Troy Stevens	The American Journal of Physiology - Lung Cellular and Molecular Physiology	2009		cAMP; actin; cytoskeleton; exoY; stress fibers
Spontaneous $Ca^{2+}$ Waves in Rabbit Corpus Cavernosum: Modulation by Nitric Oxide and cGMP	Gerard P. Sergeant, Michael Craven, † Mark A. Hollywood, Noel G. McHale, and Keith D. Thornbury, MB, BCh,	Journal of Sexual Medicine	2009	Volume 6 Issue 4, Pages 958 - 966	Corpus Cavernosum • Nitric Oxide • Calcium Signaling
Confocal Examination of Subsurface Cracking in Ceramic Materials	Maged K. Etman, DDS, MSc, MMedSc, PhD	Journal of Prosthodontics	2009	Volume 18 Issue 7, Pages 550 - 559	Ceramics • confocal microscopy • surface cracks • subsurface cracks
The mechanism of PDT-induced electrical blockade: the dependence of time-lapse localization of talaporfin sodium on the cell death phenotypes in rat cardiac myocytes	A. Ito; H. Matsuo; T. Suenari; S. Miyoshi; S. Takatsuki; S. Ogawa; T. Arai	SPIE	2009	Vol. 7164, 716412 (2009)	
Reverse Optical Trawling for Synaptic Connections in Situ	Takuya Sasaki*, Genki Minamisawa, Naoya Takahashi, Norio Matsuki, and Yuji Ikegaya	Journal of Neurophysiology	2009		
High-Temperature, but Not High-Pressure, Conditions Alter Neuronal Activity	Mika Mizunuma, Naoya Takahashi, Atsushi Usami, Norio Matsuki) and Yuji Ikegaya	Journal of Pharmacological Sciences	2009	Vol. 110 (2009) , No. 1 pp.117-121	pressure, calcium imaging, neuronal network
Evidence That a Defective Spindle Assembly Checkpoint Is Not the Primary Cause of Maternal Age-Associated Aneuploidy in Mouse Eggs	Francesca E. Duncan , Teresa Chiang , Richard M. Schultz *, and Michael A. Lampson	Biology of Reproduction	2009		Aging • Meiosis • Oocyte development • aneuploidy • spindle checkpoint
The Par3/aPKC interaction is essential for end bud remodeling and progenitor differentiation during mammary gland morphogenesis	Luke Martin McCaffrey and Ian G. Macara	Genes & Development	2009	23: 1450-1460	Mammary gland progenitor end bud polarity Par3 lentivirus
Application of Lifeact Reveals F-Actin Dynamics in Arabidopsis thaliana and the Liverwort, Marchantia polymorpha	Atsuko Era, Motoki Tominaga, Kazuo Ebine, Chie Awai, Chieko Saito, Kimitsune Ishizaki, Katsuyuki T. Yamato, Takayuki Kohchi, Akihiko Nakano, and Takashi Ueda	Plant and Cell Physiology	2009	Volume 50, Number 6 Pp. 1041-1048	Actin - Arabidopsis thaliana - Lifeact - Liverwort - Marchantia polymorpha
Micro-PIV/LIF measurements on electrokinetically-driven flow in surface modified microchannels	Mitsuhisa Ichiyanagi, Seiichi Sasaki, Yohei Sato and Koichi Hishida	JOURNAL OF MICROMECHANICS AND MICROENGINEERING	2009		
Three-dimensional two-component velocity measurement of the flow field induced by the Vorticella picta microorganism using a confocal microparticle image velocimetry technique	Moeto Nagai, Masamichi Oishi, Marie Oshima, Hiroshi Asai, Hiroyuki Fujita	Biomicrofluidics	2009	3, 014105	
Analysis of microscopic images	Christine Connolly	Sensor Review	2009	Volume 29 Issue 1 (pp. 20-27)	Image processing, Life sciences, Microscopy
A mechanism linking extra centrosomes to chromosomal instability	Neil J. Ganem, Susana A. Godinho & David Pellman	nature	2009		
Calcium Ion Gradients and Dynamics in Cultured Skin Slices of Rat Hindpaw in Response to Stimulation with ATP	Moe Tsutsumi, Sumiko Denda, Kaori Inoue, Kazuyuki Ikeyama and Mitsuhiro Denda	Journal of Investigative Dermatology	2009	129, 584–589	
Connexin43 in cardiomyocyte mitochondria contributes to mitochondrial potassium uptake	Elisabet Miro-Casas, Marisol Ruiz-Meana, Esperanza Agullo, Sabine Stahlfhofen, Antonio Rodriguez-Sinovas, Alberto Cabestrero, Inmaculada Jorge, Iratxe Torre, Jesus Vazquez, Kerstin Boengler, Rainer Schulz, Gerd Heusch and David Garcia-Dorado,*	Cardiovascular Research	2009		Connexins; Hemichannels; Myocardial ischaemia; Preconditioning; Reperfusion

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Localized olfactory representation in mushroom bodies of <i>Drosophila</i> larvae	Liria M. Masuda-Nakagawaa, Nanaë Gendreb, Cahir J. O'Kanec and Reinhard F. Stockerb alnstitute of Molecular and Cellular	Proceedings of the National Academy of Sciences	2009	vol. 106 no. 25 10314-10319	calyx genetically-encoded calcium indicator olfactory sensory neurons projection neurons
Synchronizing chromosome segregation by flux-dependent force equalization at kinetochores	Irina Matos, António J. Pereira, Mariana Lince-Faria, Lisa A. Cameron, Edward D. Salmon, and Helder Maiato	The Journal of Cell Biology	2009	Vol. 186, No. 1, 11-26	
MCAK and Paclitaxel Have Differential Effects on Spindle Microtubule Organization and Dynamics	Rania S. Rizk*, Kevin P. Bohannon*, Laura A. Wetzel*, James Powers*, Sidney L. Shaw*, and Claire E. Walczak	Molecular Biology of the Cell	2009	Vol. 20, Issue 6, 1639-1651, March 15,	
Fine Tuning the Cell Cycle: Activation of the Cdk1 Inhibitory Phosphorylation Pathway during Mitotic Exit	Tamara A. Potapova, John R. Daum, Kendra S. Byrd, and Gary J. Gorbsky	Molecular Biology of the Cell	2009	Vol. 20, Issue 6, 1737-1748, March 15	
TORC2 Plasma Membrane Localization Is Essential for Cell Viability and Restricted to a Distinct Domain	Doris Berchtold, and Tobias C. Walther	Molecular Biology of the Cell	2009	Vol. 20, Issue 5, 1565-1575, March 1	
Design of a Tumor Homing Cell-Penetrating Peptide for Drug Delivery	Maarja Mäe , Helena Myrberg, Samir El-Andaloussi and Ülo Langel	International Journal of Peptide Research and Therapeutics	2009	Volume 15, Number 1	Cell-penetrating peptide - Homing peptide - Drug delivery - Tumor targeting
Neurochemical pattern of the complex innervation of neuroepithelial bodies in mouse lungs	Inge Brouns , Fusun Oztay, Isabel Pintelon, Ian De Proost, Robrecht Lembrechts, Jean-Pierre Timmermans and Dirk Adriaensen	Histochemistry and Cell Biology	2009	Volume 131, Number 1	Sensory airway receptors - Myelinated vagal afferents - C-fibers - ATP receptors - Glutamate - NEBs - Airways
Arabidopsis LTPG Is a Glycosylphosphatidylinositol-Anchored Lipid Transfer Protein Required for Export of Lipids to the Plant Surface	Allan DeBonoa, Trevor H. Yeatsb, Jocelyn K.C. Roseb, David Birda, Reinhard Jettera,c, Ljerka Kunsta and Lacey Samuelsa,	The Plant Cell	2009	21:1230-1238	
Force- and kinesin-8-dependent effects in the spatial regulation of fission yeast microtubule dynamics	Christian Tischer,* , Damian Brunner and Marileen Dogterom	Molecular Systems Biology	2009	17 March 2009;	catastrophes; fission yeast; forces; kinesin-8; microtubules
PRIMA-1MET induces nucleolar translocation of Epstein-Barr virus-encoded EBNA-5 protein	György Stuber, Emilie Flaberg, Gabor Petranyi, Rita Ötvös, Nina Rökaeus, Elena Kashuba, Klas G Wiman, George Klein, and Laszlo Szekely	Molecular Cancer	2009		
Confocal Micro-PIV Measurement of Droplet Formation in a T-shaped Micro-junction	M Oishi , H Kinoshita, T Fujii, M Oshima	Journal of Physics: Conference Series	2009	147	
BH3 Peptides Induce Mitochondrial Fission and Cell Death Independent of BAX/BAK	Emelyn H. Shroff, Colleen M. Snyder, G. R. Scott Budinger, Manu Jain, Teng-Leong Chew, Satya Khuon, Harris Perlman, and Navdeep S. Chandel	Public Library of Science one	2009	Volume 4   Issue 5	
Kinesin-5–dependent Poleward Flux and Spindle Length Control in <i>Drosophila</i> Embryo Mitosis	Ingrid Brust-Mascher, Patrizia Sommi, Dhanya K. Cheerambathur, and Jonathan M. Scholey	Molecular Biology of the Cell	2009	Vol. 20, 1749– 1762,	
Alternative Requirements for Vestigial, Scalloped, and Dmef2 during Muscle Differentiation in <i>Drosophila melanogaster</i>	Hua Deng*, Sarah C. Hughes, John B. Bell, and Andrew J. Simmonds*	Molecular Biology of the Cell	2009	Vol. 20, Issue 1, 256-269,	
The gene responsible for Dyggve-Melchior-Clausen syndrome encodes a novel peripheral membrane protein dynamically associated with the Golgi apparatus	Ariane Dimitrov, Vincent Paupe, Charles Gueudry, Jean-Baptiste Sibarita, Graça Raposo, Ole Vielemeyer, Thierry Gilbert, Zsolt Csaba, Tania Attie-Bitach, Valérie Cormier-Daire, Pierre Gressens, Pierre Rustin, Franck Perez, and Vincent El Ghouzzi	Human Molecular Genetics,	2009	18: 440 - 453	
Analysis of Uromodulin Polymerization Provides New Insights into the Mechanisms Regulating ZP Domain-mediated Protein Assembly	Céline Schaeffer*, Sara Santambrogio*, Simone Perucca*, Giorgio Casari, and Luca Rampoldi*	Molecular Biology of the Cell	2009	Vol. 20, Issue 2, 589-599,	
Reversal of defective lysosomal transport in NPC disease ameliorates liver dysfunction and neurodegeneration in the npc1 <sup>-/-</sup> mouse	Benny Liu, Stephen D. Turley, Dennis K. Burns, Anna M. Miller, Joyce J. Repa, and John M. Dietschy	Proceedings of the National Academy of Sciences of the United States of America	2009		cholesterol lysosome cyclodextrin liver X receptor
Basal Body Components Exhibit Differential Protein Dynamics during Nascent Basal Body Assembly	Chad G. Pearson, Thomas H. Giddings, Jr., and Mark Winey	Molecular Biology of the Cell	2009	Vol. 20, Issue 3, 904-914, February 1,	
A Primary Role for Golgi Positioning in Directed Secretion, Cell Polarity, and Wound Healing	Smita Yadav, Sapna Puri, and Adam D. Linstedt	Molecular Biology of the Cell	2009	Vol. 20, Issue 6, 1728-1736, March 15	
Regulation of intracellular calcium concentration by nanosecond pulsed electric fields	Shaka S. Scarletta, Jody A. Whitea, Peter F. Blackmoreb, Karl H. Schoenbacha and Juergen F. Kolba,	Biochimica et Biophysica Acta (BBA) - Biomembranes	2009		nsPEF; Membrane poration; Intracellular Ca <sup>2+</sup> ; Jurkat cell; Fluo-4; Brefeldin A BODIPY

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Vav1 Is Essential for Mechanotactic Crawling and Migration of Neutrophils out of the Inflamed Microvasculature	Mia Phillipson*, Bryan Heit*, Sean A. Parsons*, Björn Petri*, Sarah C. Mullaly*, Pina Colarusso*, R. Michael Gower, Gregory Neely, Scott I. Simon and Paul Kubes.*	The Journal of Immunology,	2009	182: 6870-6878	
Pausing of Golgi Bodies on Microtubules Regulates Secretion of Cellulose Synthase Complexes in Arabidopsis	Elizabeth Faris Crowella, Volker Bischoffa, Thierry Despreza, Aurélie Rollanda, York-Dieter Stierhofb, Karin Schumacher, Martine Gonneaua, Herman Höftea and Samantha Vernhettesa,	The Plant Cell	2009	21:1141-1154	
Estradiol-17 inhibits GnRH-induced Ca <sup>2+</sup> in gonadotropes to regulate negative feedback on LH release	Javed Iqbal, Olivier Latchoumanin, Ika P. Sari, Richard J. Lang, Harold A. Coleman, Helena C. Parkington, and Iain J. Clarke	Endocrinology,	2009		Pituitary • second messengers • mitogen-activated protein kinase • nifedipine • thapsigargin
Horizontal cell feedback regulates calcium currents and intracellular calcium levels in rod photoreceptors of salamander and mouse retina	Norbert Babai and Wallace B. Thoreson	The Journal of Physiology	2009	587, 2353-2364	
Species-Specific In vivo Engraftment of the Human BL Melanoma Cell Line Results in an Invasive Dedifferentiated Phenotype Not Present in Xenografts	Jessica Cedervall, Seema Jamil, Lina Prasmickaite, YenFu Cheng, Malihe Eskandarpour, Johan Hansson, Gunhild M. Mælandsmo, Ulrik Ringborg, Miklos Gulyas, He Suo Zhen, Lena Kanter and Lars Åhrlund-Richter	Cancer Research	2009	69, 3746	in vivo • melanoma
Inactivation of the C. elegans lipin homolog leads to ER disorganization and to defects in the breakdown and reassembly of the nuclear envelope	Andy Golden, Jun Liu and Orna Cohen-Fix.*	Journal of Cell Science	2009	122, 1970-1978	Peripheral ER, Lamin, Nuclear shape, Nuclear architecture, Lipid droplets, Diabetes, Insulin resistance, Majeed syndrome
Characterization of anandamide-stimulated cannabinoid receptor signaling in human ULTR myometrial smooth muscle cells	Paul J. Brighton, John McDonald, Anthony H. Taylor, R. A. John Challiss, David G. Lambert, Justin C. Konje, and Jonathon M. Willets	Molecular Endocrinology	2009		Endocannabinoid • CB1 receptor • anandamide • myometrium • ULTR • extracellular signal-regulated kinase (ERK)
Lipophilic Dye Staining of Cryptococcus neoformans Extracellular Vesicles and Capsule	André Moraes Nicola, Susana Frases, and Arturo Casadevall	Eukaryotic Cell	2009		
The Coxiella burnetii Ankyrin Repeat Domain-Containing Protein Family is Heterogeneous with C-terminal Truncations that Influence Dot/Icm-Mediated Secretion	Daniel E. Voth, Dale Howe, Paul A. Beare, Joseph P. Vogel, Nathan Unsworth, James E. Samuel, and Robert A. Heinzen	The Journal of Bacteriology	2009		
Interleukin-6 Attenuates Insulin-Mediated Increases in Endothelial Cell Signaling but Augments Skeletal Muscle Insulin Action via Differential Effects on Tumor Necrosis Factor-Expression	Derek Y.C. Yuen, Renee M. Dwyer, Vance B. Matthews, Lei Zhang, Brian G. Drew, Bronwyn Neill, Bronwyn A. Kingwell, Michael G. Clark, Stephen Rattigan and Mark A. Febbraio	Diabetes	2009	vol. 58 no. 5 1086-1095	
Identification and characterization of oligonucleotides that inhibit Toll-like receptor 2-associated immune responses	Yi-Chung Chang, Wei-Chen Kao, Wei-Ya Wang, Wan-Yi Wang, Ruey-Bing Yang, and Konan Peck	The Federation of American Societies for Experimental Biology.	2009		
SCAMP5 Links Endoplasmic Reticulum Stress to the Accumulation of Expanded Polyglutamine Protein Aggregates via Endocytosis Inhibition	Jee-Yeon Noh, Huikyong Lee, Sungmin Song, Nam Soon Kim ¶, Wooseok Im¶, Manho Kim¶, Hyemyung Seo**, Chul-Woong Chung, Jae-Woong Chang, Robert J. Ferrante, Young-Jun Yoo, Hoon Ryu, and Yong-Keun Jung	Journal of Biological Chemistry	2009	Vol. 284, Issue 17, 11318-11325	
Role of cyclophilin D-dependent mitochondrial permeability transition in glutamate-induced calcium deregulation and excitotoxic neuronal death	Viacheslav Lia, Tatiana Brustovetsky and Nickolay Brustovetsky	Experimental Neurology	2009		
Endotoxin-directed Innate Immunity in Tracheal Aspirates of Mechanically Ventilated Human Neonates.	Nathe, Kathryn E.; Parad, Richard; Van Marter, Linda J.; Lund, Cara A.; Suter, Eugenie E.; Hernandez-Diaz, Sonia; Boush, Elizabeth B. G.; Ikonomu, Eva; Gallington, Leighanne; Ann Morey, Jo; Zeman, Alenka M.; Mcnamara, Meaghan; Levy, Ofer	Pediatric Research	2009		
Stimulation of glutamate receptors in cultured hippocampal neurons causes Ca <sup>2+</sup> -dependent mitochondrial contraction	Tatiana Brustovetsky, Viacheslav Lia and Nickolay Brustovetsky	Cell Calcium	2009		Neuron; Glutamate; Calcium; Mitochondria; Permeability transition; Confocal microscopy

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Activation of phospholipase A2 by temporin B: Formation of antimicrobial peptide-enzyme amyloid-type cofibrils	Christian Codea, Yegor A. Domanova, J. Antoinette Killianb and Paavo K.J. Kinnunen	Biochimica et Biophysica Acta (BBA) - Biomembranes	2009	Volume 1788, Issue 5, Pages 1064-1072	Phospholipase A2; Temporin; Antimicrobial peptide; Lag-burst kinetics; Interfacial activation; Fluorescence; Resonance energy transfer; FRET; Oligomerization; Amyloid fibril; Copolymerization
A Legionella effector acquired from protozoa is involved in sphingolipids metabolism and is targeted to the host cell mitochondria	Elena Degtyar, Tal Zusman, Marcelo Ehrlich and Gil Segal	Cellular Microbiology	2009		
ERK and PI3K regulate different aspects of the epithelial to mesenchymal transition of mammary tumor cells induced by truncated MUC1	Galit Horn, Avital Gaziel, Daniel H. Wreschner, Nechama I. Smorodinsky, and Marcelo Ehrlich	Experimental Cell Research	2009	Volume 315, Issue 8, 1 May 2009, Pages 1490-1504	MUC1; EMT; ERK; PI3K; Breast cancer; Mammary tumor
COMPLEX PATTERNS OF MITOCHONDRIAL DYNAMICS IN HUMAN PANCREATIC CELLS REVEALED BY FLUORESCENT CONFOCAL IMAGING	Andrey V. Kuznetsov *, Martin Hermann # , Jakob Troppmair , Raimund Margreiter , , and Paul Hengster	Journal of Cellular and Molecular Medicine	2009		mitochondrial dynamics • fusion and fission • mitochondrial morphology • mitochondrial motility • pancreatic cells
Increased Intratumoral FOXP3-positive Regulatory Immune Cells during Interleukin-2 Treatment in Metastatic Renal Cell Carcinoma	Hanne Krogh Jensen, Frede Donskov, Marianne Nordsmark, Niels Marcussen and Hans von der Maase	Clinical Cancer Research	2009	15, 1052	
Modulation of invasive properties of CD133(+) glioblastoma stem cells: A role for MT1-MMP in bioactive lysophospholipid signaling	Borhane Annabi , Marie-Paule Lachambre , Karine Plouffe , Hervé Sartelet , Richard Bé liveau	Molecular Carcinogenesis	2009		cancer stem cells • glioblastoma • CD133 • matrix metalloproteinases • endothelial differentiation gene
Polar gradients of the DYRK-family kinase Pom1 couple cell length with the cell cycle	Sophie G. Martin & Martine Berthelot-Grosjean	Nature advance online publication	2009		
Intermediate conductance Ca <sup>2+</sup> -activated potassium channel (KCa3.1) in the inner mitochondrial membrane of human colon cancer cells	Umberto De Marchi, Nicola Sassi, Bernard Fioretti, Luigi Catacuzzeno, Grazia M. Cereghetti, Ildikó Szabó and Mario Zoratti	Cell Calcium	2009	Volume 45, Issue 5, Pages 509-516	Mitochondria; Patch-clamp; Inner membrane; IK(Ca); HCT116
Inhibition of epithelial growth factor receptor signalling does not preserve epithelial barrier function after in vitro gliadin insult	Kati Juuti-Uusitalo; Katri Lindfors; Markku Mäki; Mimmi Patrikainen; Jorma Isola; Katri Kaukinen	Journal of Gastroenterology	2009		Coeliac disease; epidermal growth factor receptor pathway; gliadin; occludin; permeability
Lidocaine Protects from Myocardial Damage due to Ischemia and Reperfusion in Mice by Its Antiapoptotic Effects.	Kaczmarek, Dominik ; Herzog, Christine; Larmann, Jan; Gillmann, Hans-Jorg ; Hildebrand, Reinhard+; Schmitz, Martina ; Westermann, Anik +; Harendza, Thomas ; Werdehausen, Robert.; Osthaus, Alexander W. ; Echtermeyer, Frank; Hahnenkamp	American Society of Plastic Surgeons	2009	110(5):1041-1049,	
Quantitative 3D Video Microscopy of HIV Transfer Across T Cell Virological Synapses	Wolfgang Hübner, Gregory P. McNerney, Ping Chen, Benjamin M. Dale, Ronald E. Gordon, Frank Y. S. Chuang, Xiao-Dong Li, David M. Asmuth, Thomas Huser, Benjamin K. Chen*	Science	2009	Vol. 323. no. 5922, pp. 1743 – 1747	
Regulation of the processivity and intracellular localization of Saccharomyces cerevisiae dynein by dynactin	Julia R. Kardona, Samara L. Reck-Petersona,b, and Ronald D. Valea,	Proceedings of the National Academy of Sciences	2009	April 7, 2009 r vol. 106 r no. 14 r 5669–5674	microtubule motor protein nuclear segregation p150Glued single molecule
Current Application and Technology of Functional Multineuron Calcium Imaging	Shigehiro Namiki)) and Yuji Ikegaya))	Biological & Pharmaceutical Bulletin	2009	Vol. 32 (2009) , No. 1 1	calcium imaging; functional multineuron calcium imaging; large-scale recording; scanning; spinning disk
Large-scale imaging of brain network activity from >10,000 neocortical cells	Shigehiro Namiki, Norio Matsuki & Yuji Ikegaya,	Nature Precedings	2009		
Mechanisms underlying cognitive enhancement and reversal of cognitive deficits in nonhuman primates by the ampakine CX717	R. E. Hampson, R. A. España, G. A. Rogers , L. J. Porrino and S. A. Deadwyler	Psychopharmacology	2009	Volume 202, Numbers 1-3	Hippocampus - Prefrontal cortex - Striatum - AMPA receptor - NMDA receptor - Macaque - Temporal lobe - PET - Behavior - Calcium imaging
Ubiquitous yet Distinct Expression of Podocalyxin on Vascular Surfaces in Normal and Tumor Tissues in the Rat	Jacqueline E. Testa, Adrian Chrastina, Yan Li, Phil Oh, Jan E. Schnitzer	Journal of Vascular Research	2009	Vol. 46, No. 4	Caveolae,Immunofluorescence,Immunohistochemistry,Molecular imaging,Biodistribution,SPECT imaging
Identification of Erythrocyte p55/MPP1 as a Binding Partner of NF2 Tumor Suppressor Protein/Merlin	Pil-Soo Seo*, Brendan J. Quinn*, Anwar A. Khan*, Lixiao Zeng*, Christos G. Takoudis, Toshihiko Hanada*, Annalisa Bolis, Alessandra Bolino, and Athar H. Chishti*,	Experimental Biology and Medicine	2009	234:255-262	erythrocyte p55 • protein 4.1R • MPP1 • MAGUK • FERM domain • merlin • schwannomin • NF2
Force- and kinesin-8-dependent effects in the spatial regulation of fission yeast microtubule dynamics	Christian Tischer,*, Damian Brunner and Marileen Dogterom	Molecular Systems Biology	2009		

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The N- or C-terminal domains of DSH-2 can activate the <i>C. elegans</i> Wnt/ $\beta$ -catenin asymmetry pathway	Ryan S. Kinga, Stephanie L. Maidenb, Nancy C. Hawkinsc, Ambrose R. Kidd IIIa, Judith Kimbled, e, Jeff Hardinf, , and Timothy D. Walstong	Developmental Biology	2009	Volume 328, Issue 2,	<i>C. elegans</i> ; Dishevelled; Morphogenesis
Bcl-2 Blocks Cisplatin-Induced Apoptosis and Predicts Poor Outcome Following Chemoradiation Treatment in Advanced Oropharyngeal Squamous Cell Carcinoma	William A. Michaud, Anthony C. Nichols, Edmund A. Mroz, William C. Faquin, John R. Clark, Shahnaz Begum, William H. Westra, Hiroshi Wada, Paul M. Busse, Leif W. Ellisen, and James W. Rocco,	Clinical Cancer Research	2009	15, 1645	
Accumulation of labile zinc in neurons and astrocytes in the spinal cords of G93A SOD-1 transgenic mice	Jean Kima, Tae-Youn Kima, Jung Jin Hwangb, Joo-Yong Leeb, Jin-Hee Shinc, Byung Joo Gwagc and Jae-Young Koh	Neurobiology of Disease	2009		Excitotoxicity; Motoneurons; HNE; Zinc chelator; ALS
Monitoring disease evolution and treatment response in lysosomal disorders by the peripheral benzodiazepine receptor ligand PK11195	Ilaria Visigalli, Rosa Maria Moresco, Sara Belloli, Letterio S. Politi, Angela Gritti, Daniela Ungaro, Mario Matarrese, Elia Turolla, Andrea Falini, Giuseppe Scotti, Luigi Naldini, Ferruccio Fazio and Alessandra Biffi	Neurobiology of Disease	2009	Volume 34, Issue 1, April 2009, Pages 51-62	Lysosomal storage disorders; Microglia; Neuroinflammation; Hematopoietic stem cell transplantation; Positron emission tomography; Peripheral benzodiazepine receptor ligands
Macrophage NADPH Oxidase Flavocytochrome b Localizes to the Plasma Membrane and Rab11-Positive Recycling Endosomes	Amy-Jo Casbon*, Lee-Ann H. Allen, Kenneth W. Dunn and Mary C. Dinauer*,	The Journal of Immunology,	2009	182: 2325-2339	
Prominent expression of FRS2 $\beta$ protein in neural cells and its association with intracellular vesicles	Yuriko Minegishia, Hiroko Iwanarib, Yasuhiro Mochizukib, Takako Horiia, Tomoko Hoshinoa, Tatsuhiko Kodamab, Takao Hamakubob and Noriko Gotoha	FEBS Letters	2009	Volume 583, Issue 4, 18 February 2009, Pages 807-814	FRS2; FRS3; SNT; Brain-derived neurotrophic factor; Lysosome; Intracellular transport
Effect of intracellular lipid droplets on cytosolic Ca <sup>2+</sup> and cell death during ischaemia–reperfusion injury in cardiomyocytes	Ignasi Barba, Laia Chavarria, Marisol Ruiz-Meana, Maribel Mirabet, Esperanza Agulló and David Garcia-Dorado	The Journal of physiology	2009	Volume 587, Number 6, 1331-1341	
Pil1 Controls Eisosome Biogenesis	Karen E. Moreira*, Tobias C. Walther*, Pablo S. Aguilar, and Peter Walter	The American Society for Cell Biology	2009	Vol. 20, Issue 3, 809-818, February 1	
STIM1- and Orai1-dependent Store-operated Calcium Entry Regulates Human Myoblast Differentiation	Basile Darbellay, Serge Arnaudeau¶, Stéphane König, Hélène Jousset¶, Charles Bader, Nicolas Demaurex¶, and Laurent Bernheim	Journal of Biological Chemistry	2009	Vol. 284, Issue 8, 5370-5380,	
Characterization of Phosphatidylinositol Phosphate Kinases from the Moss <i>Physcomitrella patens</i> : PpPIP1K and PpPIP2K	Laura Saavedra, Virginia Balbi, Stephen K. Dove, Yuji Hiwatashi, Koji Mikami,* and Marianne Sommarin,*	Plant and Cell Physiology	2009	50(3):595-609	Membrane occupation and recognition nexus (MORN) - Phosphatidylinositol phosphate kinase (PIP) - Phosphoinositide metabolism - Phosphoinositides - <i>Physcomitrella patens</i>
Thaxtomin A affects CESA-complex density, expression of cell wall genes, cell wall composition, and causes ectopic lignification in <i>Arabidopsis thaliana</i> seedlings	Volker Bischoff *, Sarah Jane Cookson, Shuang Wu and Wolf-Rüdiger Scheible	Journal of Experimental Botany,	2009	Vol. 60, No. 3, pp. 955–965,	<i>Arabidopsis thaliana</i> , callose, cellulose, defence response, isoxaben, lignin, microtubule, phytotoxin, <i>Streptomyces</i> , thaxtomin
Antibody ligation of murine Ly-6G induces neutropenia, blood flow cessation, and death via complement-dependent and independent mechanisms	Katherine B. Abbitt, Matthew J. Cotter, Victoria C. Ridger, David C. Crossman, Paul G. Hellewell, and Keith E. Norman	Journal of Leukocyte Biology	2009	85:55-63	neutrophils • cell activation • adhesion
Chronic stimulation of farnesoid X receptor impairs nitric oxide sensitivity of vascular smooth muscle	Taiki Kida, Takahisa Murata, Masatoshi Hori, and Hiroshi Ozaki	The American Physiological Society	2009	296: H195-H201	nuclear receptor; guanosine 3',5'-cyclic monophosphate; endothelium-dependent relaxation; GW4064; rabbit mesenteric artery
Dopamine inhibits N-type channels in visceral afferents to reduce synaptic transmitter release under normoxic and chronic intermittent hypoxic conditions	David D. Kline*, Gabriel Hendricks, Gerlinda E. Hermann, Richard C. Rogers, and Diana L. Kunze	Journal of Neurophysiology	2009		
Human Benign Prostatic Hyperplasia Stromal Cells As Inducers and Targets of Chronic Immuno-Mediated Inflammation	Giuseppe Penna*, Benedetta Fibbi, Susana Amuchastegui*, Chiara Cossetti*, Francesca Aquilano*, Gilles Laverny*, Mauro Gacci, Clara Crescioli, Mario Maggi and Luciano Adorini,*	The Journal of Immunology	2009	182: 4056-4064.	
STIMULATION-INDUCED FORMATION OF THE RESERVE POOL OF VESICLES IN <i>DROSOPHILA</i> MOTOR BOUTONS	Yulia Akbergenova and Maria Bykhovskaia	Journal of Neurophysiology	2009		

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SCAMP5 links ER stress to the accumulation of expanded polyglutamine protein aggregates via endocytosis inhibition	Jee-Yeon Noh, Huikyong Lee, Sungmin Song, Nam Soon Kim, Wooseok Im, Manho Kim, Hye-Myong Seo, Chul-Woong Chung, Jae-Woong Chang, Robert J. Ferrante, Young-Jun Yoo, Hoon Ryu, and Yong-Keun Jung	Journal of Biological Chemistry	2009		
Identification and expression of a new delta-12 fatty acid desaturase (FAD2-4)	Daiyuan Zhanga, Irma L. Pirtlea, Stacy J. Parka, Mongkol Nampaisansuka, Purnima Neogia, Sylvia W. Wanjiea, Robert M. Pirtle, a, and Kent D. Chapman	Plant Physiology and Biochemistry	2009		Delta-12 fatty acid desaturase 2; Gossypium hirsutum L.; Linoleic acid; Oleic acid; Polyunsaturated fatty acid metabolism
Direct toxic effects of aqueous extract of cigarette smoke on cardiac myocytes	Shigeyuki Yamadaa, , Xiu Quan Zhanga, Toshie Kadonoa, , Nobuhiro Matsuokaa, Douglas Rollinsb, Troy Badgera, Christopher K. Rodeschc and William H. Barrya,	Toxicology and Applied Pharmacology	2009	Volume 236, Issue 1, 1 April 2009, Pages 71-77	Cigarette smoke; Myocyte; Calcium; Mitochondria; Ranolazine
Measuring mitochondrial and cytoplasmic Ca <sup>2+</sup> in EGFP expressing cells with a low-affinity Calcium Ruby and its dextran conjugate	Camilla Luccardinia, b, c, d, , Aleksey V. Yakovleva, b, c, d, , Mathias Paschee, Stéphane Gaillardf, Dongdong Lia, b, c, France Rousseaud, Romain Lyd, Ute Becherere, Jean-Maurice Malletf, Anne Feltzd, , and Martin Oheim	Cell Calcium	2009	Volume 45, Issue 3, March 2009, Pages 275-283	EGFP; Long-wavelength; Visible light; Red-emitting; Cytoplasmic calcium; Mitochondrial calcium; Synthesis; Co-localization; Dextran conjugate; In-situ characterization; Double-labeling; BAPTA; Buffer capacity; Low-affinity; Calcium microdomain
Spindle Fusion Requires Dynein-Mediated Sliding of Oppositely Oriented Microtubules	Jesse C. Gatlina,Alexandre Matov,Aaron C. Groen,Daniel J. Needleman,Thomas J. Maresca,Gaudenz Danuser,Timothy J. Mitchison,andE. D. Salmon	Current Biology	2009	Volume 19, Issue 4, 287-296	
3D Confocal Laser Scanning Microscopy for the Analysis of Chlorophyll Fluorescence Parameters of Chloroplasts in Intact Leaf Tissues	Kenji Omasa*, Atsumi Konishi, Hikaru Tamura and Fumiki Hosoi	Plant and Cell Physiology	2009	50(1):90-105	3D - Chlorophyll fluorescence - Chloroplast - CLSM - NPQ - PSII
discordia1 and alternative discordia1 Function Redundantly at the Cortical Division Site to Promote Preprophase Band Formation and Orient Division Planes in Maize	Amanda J. Wright, Kimberly Gallagher, and Laurie G. Smith	PLANT CELL	2009		
Essential role of Rac1 and Rac3 GTPases in neuronal development	Sara Corbetta, Sara Gualdoni, Gabriele Ciceri, Marta Monari, Emanuela Zuccaro, Victor L. J. Tybulewicz, and Ivan de Curtis	The Federation of American Societies for Experimental Biology.	2009		
A novel conserved evx1 enhancer links spinal interneuron morphology and cis-regulation from fish to mammals	Maximiliano L. Suster a, b, , Artur Kaniac, e, Meijiang Liaoa, Kazuhide Asakawab, Frederic Charrond, e, Koichi Kawakamib, f and Pierre Drapeau	Developmental Biology	2009	Volume 325, Issue 2, 15 January 2009, Pages 422-433	Spinal cord; V0 interneuron; evx1; Enhancer; Cis-regulation; Pufferfish; Zebrafish; Chick; Mouse; Rat
Dynamin 2 is required for actin assembly in phagocytosis in Sertoli cells	Atsushi Otsukaa, , Tadashi Abea, , Masami Watanabeb, Hitoshi Yagisawac, Kohji Takeia and Hiroshi Yamada	Biochemical and Biophysical Research Communications	2009	Volume 378, Issue 3, 16 January 2009, Pages 478-482	Dynamin; Phagocytosis; Endocytosis; Testis; Actin dynamics