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Selected Scientific and Technical Publications



HIV-1 Nef inhibits ruffles, induces filopodia and modulates migration of infected lymphocytes

Nobile, C., Rudnicka, D., Hasan, M., Aulner, N., Porrot, F., Machu, C., Renaud, O., Prevost, M.C., Hivroz, C., Schwartz, O., Sol-Foulon, N. *Journal of Virology* (2009) Dec. 16. [Epub ahead of print].

Peroxiredoxin 1 Stimulates Secretion of Proinflammatory Cytokines by Binding to TLR4

Riddell, J.R., Wang, X., Minderman, H., O.Gollnick, S. *Journal of Immunology* (2009) 184: 1022-30

Immune synapse formation determines interaction forces between T cells and antigen-presenting cells measured by atomic force microscopy

Hosseini, B. H., Louban, I., Djandji, D., Wabnitz, G. H., Deeg, J., Bulbuc, N., Samstag, Y., Gunzer, M., Spatz, J. P., Hammerling, G. J. *PNAS* (2009) 106(42): 17852-57.

Numbers matter: quantitative and dynamic analysis of the formation of an immunological synapse using imaging flow cytometry

Fariyal Ahmed, Sherree Friend, Thaddeus George, Natasha Barteneva, and Judy Lieberman *Journal of Immunological Methods* (2009) 347: 79-86.

Clinical and biological significance of CXCR5 expressed by prostate cancer specimens and cell lines

Shailesh Singh, Rajesh Singh, Udai P. Singh, Shesh N. Rai, Kristian R. Novakovic, Leland W. K. Chung, Peter J. Didier, William E. Grizzle, and James W. Lillard, Jr. *International Journal of Cancer* (2009) 125(10):2288-95.

NF-E2-related factor 2 regulates the stress response to UVA-1-oxidized phospholipids in skin cells

Florian Gruber, Herbert Mayer, Barbara Lengauer, Veronika Mlitz, John M. Sanders, Alexandra Kadl, Martin Bilban, Rainer de Martin Oswald Wagner, Thomas W. Kensler, Masayuki Yamamoto, Norbert Leitinger, and Erwin Tschachler *The FASEB Journal (Ahead of Print) Published online August 31, 2009.*

The Urokinase Plasminogen Activator Receptor Promotes Efferocytosis of Apoptotic Cells

Veera D'mello, Sukhwinder Singh, Yi Wu, and Raymond B. Birge *The Journal of Biological Chemistry* (2009) 284(25):17030-17038

Alpha6beta4 integrin crosslinking induces EGFR clustering and promotes EGF-mediated Rho activation in breast cancer

Michael Z Gilcrease, Xiao Zhou, Xiaolin Lu, Wendy A Woodward, Brian E Hall, and Phillip J Morrissey *Journal of Experimental & Clinical Cancer Research* (2009) 28:67-77

Differential Association of Programmed Death-1 and CD57 with Ex Vivo Survival of CD8 α T Cells in HIV Infection

Constantinos Petrovas, et al *The Journal of Immunology* (2009) 183:1120-1132

Binding of Submaximal C1q Promotes Complement-Dependent Cytotoxicity (CDC) of B Cells Opsonized with Anti-CD20 mAbs Ofatumumab (OFA) or Rituximab (RTX): Considerably Higher Levels of CDC Are Induced by OFA than by RTX

Andrew W. Pawluczko, Frank J. Beurskens, Paul V. Beum, Margaret A. Lindorfer, Jan G. J. van de Winkel, Paul W. H. I. Parren, and Ronald P. Taylor *The Journal of Immunology* (2009) 183:749-758

Statins inhibit NK-cell cytotoxicity by interfering with LFA-1-mediated conjugate formation

Patrick C. Raemer, Kristine Kohl and Carsten Watzl *European Journal of Immunology* (2009) 39(6):1456-65

Retinoic acid induces nuclear accumulation of Raf1 during differentiation of HL-60 cells

James Smith, Rodica P. Bunaciu, Gudrun Reiterer, David Coder, Thaddeus George, Michael Asaly, Andrew Yen *Experimental Cell Research* (2009) 315(13):2241-2248

Identification of a dendritic cell receptor that couples sensing of necrosis to immunity

David Sancho, Olivier P. Joffre, Anna M. Keller, Neil C. Rogers, Dolores Martínez, Patricia Hernanz-Falcón, Ian Rosewell & Caetano Reis e Sousa *Nature* (2009) 458:899-903

Distinct Regulation of Integrin-Dependent T Cell Conjugate Formation and NF- κ B Activation by the Adapter Protein ADAP

Brandon J. Burbach, Rupa Srivastava, Ricardo B. Medeiros, William E. O'Gorman, Erik J. Peterson and Yoji Shimizu *The Journal of Immunology* (2008) 181:4840-4851

Binding, Internalization, and Antigen Presentation of Vaccine-Loaded Nanoengineered Capsules in Blood

Robert De Rose, Alexander N. Zelikin, Angus P. R. Johnston, Amy Sexton, Siow-Feng Chong, Christina Cortez, William Mulholland, Frank Caruso, Stephen J. Kent *Advanced Materials* (2008) 20:4698-4703

Akt inhibition promotes autophagy and sensitizes PTEN-null tumors to lysosomotropic agents

Michael Degtyarev, Ann De Mazière, Christine Orr, Jie Lin, Brian B. Lee, Janet Y. Tien, Wei W. Prior, Suzanne van Dijk, Hong Wu, Daniel C. Gray, David P. Davis, Howard M. Stern, Lesley J. Murray, Klaus P. Hoeflich, Judith Klumperman, Lori S. Friedman, and Kui Lin *The Journal of Cell Biology* (2008) 183(1):101-116

Lytic Granule Loading of CD8⁺ T Cells Is Required for HIV-Infected Cell Elimination Associated with Immune Control

Stephen A. Migueles, et al *Immunity* (2008) 29:1009-1021

CD44 Deficiency Attenuates Chronic Murine Ileitis

Colm B. Collins, Johnson Ho, Theodore E. Wilson, Joshua D. Wermers, Jose L. Tlaxca, Michael B. Lawrence, Michael Solga, Joanne Lannigan, and Jesus Rivera-Nieves *Gastroenterology* (2008) 135:1993-2002

Binding of Rituximab, Trastuzumab, Cetuximab, or mAb T101 to Cancer Cells Promotes Trophocytosis Mediated by THP-1 Cells and Monocytes

Paul V. Beum, David A. Mack, Andrew W. Pawluczko, Margaret A. Lindorfer, and Ronald P. Taylor *The Journal of Immunology* (2008) 181(11):8120-8132

Interferon regulatory factor 7-mediated responses are defective in cord blood plasmacytoid dendritic cells

Danis, B., George, T. C., Goriely, S., Dutta, B., Renneson, J., Gatto, L., Fitzgerald-Bocarsly, P., Marchant, A., Goldman, M., Willems, F., De Wit, D. *European Journal of Immunology* (2008) 38 (2):507-17

Deregulation of c-Myc Confers Distinct Survival Requirements for Memory B Cells, Plasma Cells, and Their Progenitors

Sefat E. Khuda, William M. Loo, Siegfried Janz, Brian Van Ness, and Loren D. Erickson

The Journal of Immunology (2008) 181(11):7537-7549

Multispectral imaging of hematopoietic cells: Where flow meets morphology

Kathleen E. McGrath, Timothy P. Bushnell, James Palis

Journal of Immunological Methods (2008) 336:91-97

Quantitative image based apoptotic index measurement using multispectral imaging flow cytometry: a comparison with standard photometric methods

Shannon Henery, Thaddeus George, Brian Hall, David Basiji, William Orty, Philip Morrissey

Apoptosis (2008) 13:1054-1063

Optimization of Yeast Cell Cycle Analysis and Morphological Characterization by Multispectral Imaging Flow Cytometry

Meredith E. K. Calvert, Joanne A. Lannigan, Lucy F. Pemberton

Cytometry Part A (2008) 73A:825-833

Autophosphorylation docking site Tyr867 in Mertk allows for dissociation of multiple signaling pathways for phagocytosis of apoptotic cells and downmodulation of LPS-inducible NF- κ B transcriptional activation

Nitu Tibrewal, Yi Wu, Veera D'mello, Reiko Akakura, Thaddeus C. George, Brian Varnum, Raymond B. Birge

Journal of Biological Chemistry (2008) 283(6):3618-3627

Image-Based Study of Interferogenic Interactions between Plasmacytoid Dendritic Cells and HSV-Infected Monocyte-Derived Dendritic Cells

Nicholas J. Megjugorac, Evan S. Jacobs, Alexander G. Izaguirre, Thaddeus C. George, Gunjan Gupta, Patricia Fitzgerald-Bocarsly

Immunological Investigations (2007) 36:739-761

Enucleation of primitive erythroid cells generates a transient population of "pyrenocytes" in the mammalian fetus

Kathleen E. McGrath, Paul D. Kingsley, Anne D. Koniski, Rebecca L. Porter, Timothy P. Bushnell, James Palis

Blood (2008) 111:2409-2417.

Morphological characterization of very small embryonic-like stem cells (VSEs) by ImageStream system analysis

Ewa K. Zuba-Surma, Magdalena Kucia, Ahmed Abdel-Latif, Buddhadeb Dawn, Brian Hall, Rajesh Singh, James W. Lillard, Jr., Mariusz Z. Ratajczak

Journal of Cellular and Molecular Medicine (2007) 12(1):292-303

IFN- α Is Not Sufficient to Drive Th1 Development Due to Lack of Stable T-bet Expression

Hilario J. Ramos, Ann M. Davis, Thaddeus C. George, J. David Farrar.

The Journal of Immunology (2007) 179:3792-3803

Cellular Image Analysis and Imaging by Flow Cytometry

David A. Basiji, William E. Orty, Luchuan Liang, Vidya Venkatachalam and Philip Morrissey

Clinics in Laboratory Medicine (2007) 27:653-670

Temporal Dissection of T-bet Functions

Jennifer L. Matsuda, Thaddeus C. George, James Hagman, Laurent Gapin

The Journal of Immunology (2007) 178:3457-3465

Intracellular Kaposi's Sarcoma-Associated Herpesvirus Load Determines Early Loss of Immune Synapse Components

Laura A. Adang, Costin Tomescu, Wai K. Law, Dean H. Kedes

Journal of Virology (2007) 81(10):5079-5090

Extended Depth of Field Imaging for High Speed Cell Analysis

William E. Orty, David J. Perry, Vidya Venkatachalam, Luchuan Liang, Brian E. Hall, Keith Frost, David A. Basiji

Cytometry Part A (2007) 71A:215-231

Autophagy-Dependent Viral Recognition by Plasmacytoid Dendritic Cells

Heung Kyu Lee, Jennifer M. Lund, Balaji Ramanathan, Noboru Mizushima, Akiko Iwasaki

Science (2007) 315:1398-1401

The unexpected effect of cyclosporin A on CD56⁺CD16⁺ and CD56⁺CD16⁺ natural killer cell subpopulations

Hongbo Wang, Bartosz Grzywacz, David Sukovich, Valarie McCullar, Qing Cao, Alisa B. Lee, Bruce R. Blazar, David N. Cornfield, Jeffrey S. Miller, Michael R. Verneris

Blood (2007) 110:1530-1539

Quantitative analysis of protein co-localization on B cells opsonized with rituximab and complement using the ImageStream multispectral imaging flow cytometer

Paul V. Beum, Margaret A. Lindorfer, Brian E. Hall, Thaddeus C. George, Keith Frost, Philip J. Morrissey, Ronald P. Taylor

Journal of Immunological Methods (2006) 317:90-99

Receptor Cross-Linking on Human Plasmacytoid Dendritic Cells Leads to the Regulation of IFN- α Production

Stacey L. Fanning, Thaddeus C. George, Di Feng, Steven B. Feldman, Nicholas J. Megjugorac, Alexander G. Izaguirre, and Patricia Fitzgerald-Bocarsly

The Journal of Immunology (2006) 177:5829-5839

Asynchronous Progression through the Lytic Cascade and Variations in Intracellular Viral Loads Revealed by High-Throughput Single-Cell Analysis of Kaposi's Sarcoma-Associated Herpesvirus Infection

Laura A. Adang, Christopher H. Parsons, Dean H. Kedes

Journal of Virology (2006) 80:10073-10082

Sensitivity Measurement and Compensation in Spectral Imaging

William E. Orty, Brian E. Hall, Thaddeus C. George, Keith Frost, David A. Basiji, David J. Perry, Cathleen A. Zimmerman, David Coder, Philip J. Morrissey

Cytometry Part A (2006) 69A:852-862

Quantitative Measurement of Nuclear Translocation Events using Similarity Analysis of Multispectral Cellular Images Obtained in Flow

Thaddeus C. George, Stacey L. Fanning, Patricia Fitzgerald-Bocarsly, Ricardo B. Medeiros, Sarah Highfill, Yoji Shimizu, Brian E. Hall, Keith Frost, David A. Basiji, William E. Orty, Philip J. Morrissey, David H. Lynch

Journal of Immunological Methods (2006) 311:117-129