

# ImageStream<sup>®</sup> System

## Recent Scientific and Technical Publications



### **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) Jun;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) Aug 1;315(13):2241-8

### **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- $\kappa$ 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

### **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. Hoefflich, Judith Klumperman, Lori S. Friedman, and Kui Lin  
*The Journal of Cell Biology* (2008) Vol. 183, No. 1, 101-116

### **CD44 Deficiency Attenuates Chronic Murine Ileitis**

Colm B. Collins, et. al.  
*Gastroenterology* (2008) 135:1993-2002

### **Lytic Granule Loading of CD8<sup>+</sup> T Cells Is Required for HIV-Infected Cell Elimination Associated with Immune Control**

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

### **Binding of Rituximab, Trastuzumab, Cetuximab, or mAb T101 to Cancer Cells Promotes Trogocytosis 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

### **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- $\kappa$ 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 (VSELs) 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- $\alpha$ 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

**Extended Depth of Field Imaging for High Speed Cell Analysis**

William E. Ortyn, 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<sup>+</sup>CD16<sup>+</sup> and CD56<sup>+</sup>CD16<sup>+</sup> 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- $\alpha$  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. Ortyn, 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. Ortyn, Philip J. Morrissey, David H. Lynch  
*Journal of Immunological Methods* (2006) 311:117-129