




Garry Nolan

Rachford and Carlota Harris Professor

Microbiology & Immunology - Baxter Laboratory

 NIH Biosketch available Online

 Curriculum Vitae available Online

CONTACT INFORMATION

• Administrative Contact

Shama B. Choudhry - Administrative Associate

Email shamac@stanford.edu

Tel (650) 725-7002

Bio

BIO

Dr. Nolan is the Rachford and Carlota A. Harris Professor in the Department of Microbiology and Immunology at Stanford University School of Medicine. He trained with Leonard Herzenberg (for his Ph.D.) and Nobelist Dr. David Baltimore (for postdoctoral work for the first cloning/characterization of NF- κ B p65/ RelA and the development of rapid retroviral production systems). He has published over 300 research articles and is the holder of 20 US patents, and has been honored as one of the top 25 inventors at Stanford University.

Dr. Nolan is the first recipient of the Teal Innovator Award (2012) from the Department of Defense (a \$3.3 million grant for advanced studies in ovarian cancer), the first recipient of an FDA BAAA, for “Bio-agent protection” grant, \$3million, from the FDA for a “Cross-Species Immune System Reference”, and received the award for “Outstanding Research Achievement in 2011” from the Nature Publishing Group for his development of CyTOF applications in the immune system. Dr. Nolan has new efforts in the study of Ebola, having developed instrument platforms to deploy in the field in Africa to study Ebola samples safely with the need to transport them to overseas labs (funded by a new \$3.5 million grant from the FDA) and another grant to study the effects of Zika virus on humans (also from the FDA).

Dr. Nolan is an outspoken proponent of translating public investment in basic research to serve the public welfare. Dr. Nolan was the founder of Rigel Inc. (NASDAQ: RIGL), and Nodality, Inc. (a diagnostics development company), BINA (a genomics computational infrastructure company sold to Roche Diagnostics), Founder of Apprise (sold to Roche Sequencing Solutions), co-Founder of Ionpath, co-Founder of Akoya, and serves on the Boards of Directors of several companies as well as consults for other biotechnology companies. DVS Sciences, on which he was Chair of the Scientific Advisory Board, recently sold to Fluidigm for \$207 million dollars (2014) on an investment of \$14 million. Dr. Nolan is a member of the Parker Institute for Cancer Immunotherapy at Stanford.

His areas of research include hematopoiesis, cancer and leukemia, autoimmunity and inflammation, and computational approaches for network and systems immunology. Dr. Nolan’s recent efforts are focused on a single cell analysis advance using a mass spectrometry-flow cytometry hybrid device, the so- call “CyTOF” and the “Multiparameter Ion Beam Imager” (MIBI) developed by Dr. Mike Angelo in his lab (Dr. Angelo is now an Assistant Professor in the Dept of Pathology at Stanford). The approaches use an advanced ion plasma source to determine the levels of tagged reagents bound to cells—enabling a vast increase in the number of

parameters that can be measured per cell—either as flow cytometry devices (CyTOF) or imaging platforms for cancer (MIBI). Further efforts with another imaging platform termed CODEX (Akoya, Inc.) that inexpensively converts fluorescence scopes to high dimensional imaging platforms.

Dr. Nolan's efforts are to enable a deeper understanding not only of normal immune function, trauma, pathogen infection, and other inflammatory events but also detailed substructures of leukemias and solid cancers—which will enable wholly new understandings that will enable better management of disease and clinical outcomes.

ACADEMIC APPOINTMENTS

- Professor, Microbiology & Immunology - Baxter Laboratory
- Member, Bio-X
- Member, Maternal & Child Health Research Institute (MCHRI)
- Member, Stanford Cancer Institute
- Faculty Fellow, Stanford ChEM-H

ADMINISTRATIVE APPOINTMENTS

- Director, Stanford NHLBI Proteomics Center, National Heart, Lung, and Blood Institute of the NIH, (2010-2015)
- Board of External Experts, National Heart, Lung, and Blood Institute of the NIH, (2007- present)
- NCI-Frederick Advisory Committee, NCI, (2011-2015)

HONORS AND AWARDS

- Burrough's Wellcome Investigator's Award In Pharmacology, Burroughs Wellcome (1995-2000)
- Scholar of the Leukemia Society, Leukemia and Lymphoma Society (1996-2000)
- Stohlman Scholar, Leukemia and Lymphoma Society (2000)
- Outstanding Research Achievement, for Mass Cytometry and CyTOF, Nature Publishing Group (2011)
- Teal Innovator Award, Department of Defense (2012-2017)

PROFESSIONAL EDUCATION

- Postdoctoral Fellowship, MIT, David Baltimore Laboratory , Biochemistry (1993)
- Ph.D., Stanford University , Genetics (1989)
- B.S., Cornell University , Genetics (1983)

LINKS

- Nolan Lab: <http://www.stanford.edu/group/nolan/>

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Our areas of expertise include signal transduction, immunology, cancer biology, pathogen infection, auto-immunity, retroviral design, bioinformatics and genetics. Our laboratory's recent interests include studying signaling alterations at the single cell level in leukemia and lymphomas, cancer stem cells, and determining which of these signaling attributes correlate with patient outcome, drug reactivity and mechanism of disease progressions.

His areas of research include hematopoiesis, cancer and leukemia, autoimmunity and inflammation, and computational approaches for network and systems immunology. Dr. Nolan's recent efforts are focused on a single cell analysis advance using a mass spectrometry-flow cytometry hybrid device, the so- call "CyTOF" and the "Multiparameter Ion Beam Imager" (MIBI) developed by Dr. Mike Angelo in his lab (Dr. Angelo is now an Assistant Professor in the Dept of Pathology at

Stanford). The approaches uses an advanced ion plasma source to determine the levels of tagged reagents bound to cells—enabling a vast increase in the number of parameters that can be measured per cell—either as flow cytometry devices (CyTOF) or imaging platforms for cancer (MIBI). Further efforts are being develop with another imaging platform terms CODEX that inexpensively converts fluorescence scopes to high dimensional imaging platforms.

The lab puts substantial effort into bioinformatics approaches to mine the datasets we collect and to automate the production of network models of the signaling pathways affected. For this, we have collaborations with statisticians, engineering departments, and computer design specialists to extend our efforts to make the program in the laboratory extremely cross-disciplinary.

Dr. Nolan has published over 300 papers, most in top tier journals, has over 20 issued patents, has been cited as one of the top inventors at Stanford, and has a strong record of translating technology and inventions for the public good. Dr. Nolan is the first recipient of the Teal Innovator Award (2012) from the Department of Defense (a \$3.3 million grant for advanced studies in ovarian cancer), the first recipient of an FDA BAAA, for “Bio-agent protection” grant, \$3million, from the FDA for a “Cross-Species Immune System Reference”, a recent grant for Ebola studies in Africa (FDA BAAA for \$3.5 million) and received the award for “Outstanding Research Achievement in 2011” from the Nature Publishing Group for his development of CyTOF applications in the immune system. As noted, Dr. Nolan has new efforts in the study of Ebola, having developed instrument platforms to deploy in the field in Africa to study Ebola samples safely with the need to transport them to overseas labs (funded by a new \$3.5 million grant from the FDA).

CLINICAL TRIALS

- Genome, Proteome and Tissue Microarray in Childhood Acute Leukemia, Not Recruiting
- MEK Inhibitor MEK162, Idarubicin, and Cytarabine in Treating Patients With Relapsed or Refractory Acute Myeloid Leukemia, Not Recruiting
- T-cell And General Immune Response to Seasonal Influenza Vaccine (SLVP018) - Year 1, 2009, Not Recruiting
- T-cell And General Immune Response to Seasonal Influenza Vaccine (SLVP018) Year 2, 2010, Not Recruiting
- T-cell And General Immune Response to Seasonal Influenza Vaccine (SLVP018) Year 3, 2011, Not Recruiting
- T-cell And General Immune Response to Seasonal Influenza Vaccine (SLVP018) Year 4, 2012, Not Recruiting
- T-cell And General Immune Response to Seasonal Influenza Vaccine (SLVP018) Year 5, 2013, Not Recruiting

Teaching

STANFORD ADVISEES

Doctoral Dissertation Reader (AC)

Salil Bhate

Postdoctoral Faculty Sponsor

John Hickey, Sizun Jiang, Darci Phillips, Zainab Rahil, Xavier Rovira Clavé, Christian Schuerch

Doctoral Dissertation Advisor (AC)

Yunhao Bai, Salil Bhate, Maxim Markovic, Bokai Zhu

Doctoral Dissertation Co-Advisor (AC)

Graham Barlow, Tim Keyes

Postdoctoral Research Mentor

Sizun Jiang, Darci Phillips, Xavier Rovira Clavé, Christian Schuerch

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Biomedical Informatics (Masters Program)

- Biomedical Informatics (Phd Program)
- Cancer Biology (Phd Program)
- Immunology (Phd Program)
- Microbiology and Immunology (Phd Program)

Publications

PUBLICATIONS

- **Role for polo-like kinase 4 in mediation of cytokinesis.** *Proceedings of the National Academy of Sciences of the United States of America*
Press, M. F., Xie, B., Davenport, S., Zhou, Y., Guzman, R., Nolan, G. P., O'Brien, N., Palazzolo, M., Mak, T. W., Brugge, J. S., Slamon, D. J.
2019
- **Neurological, Cognitive, and Psychological Findings Among Survivors of Ebola Virus Disease From the 1995 Ebola Outbreak in Kikwit, Democratic Republic of Congo: A Cross-sectional Study** *CLINICAL INFECTIOUS DISEASES*
Kelly, J., Hoff, N. A., Spencer, D., Musene, K., Bramble, M. S., McIlwain, D., Okitundu, D., Porco, T. C., Rutherford, G. W., Glymour, M., Bjornson, Z., Mukadi, P., Okitolonda-Wemakoy, et al
2019; 68 (8): 1388–93
- **Identification of NK Cell Subpopulations That Differentiate HIV-Infected Subject Cohorts with Diverse Levels of Virus Control** *JOURNAL OF VIROLOGY*
Pohlmeier, C. W., Gonzalez, V. D., Irrinki, A., Ramirez, R. N., Li, L., Mulato, A., Murry, J. P., Arvey, A., Hoh, R., Deeks, S. G., Kukulj, G., Cihlar, T., Pflanz, et al
2019; 93 (7)
- **A topological view of human CD34(+) cell state trajectories from integrated single-cell output and proteomic data** *BLOOD*
Knapp, D. F., Hammond, C. A., Wang, F., Aghaeepour, N., Miller, P. H., Beer, P. A., Pellacani, D., VanInsberghe, M., Hansen, C., Bendall, S. C., Nolan, G. P., Eaves, C. J.
2019; 133 (9): 927–39
- **Proliferation tracing with single-cell mass cytometry optimizes generation of stem cell memory-like T cells.** *Nature biotechnology*
Good, Z., Borges, L., Vivanco Gonzalez, N., Sahaf, B., Samusik, N., Tibshirani, R., Nolan, G. P., Bendall, S. C.
2019
- **Multiplexed profiling of RNA and protein expression signatures in individual cells using flow or mass cytometry.** *Nature protocols*
Duckworth, A. D., Gherardini, P. F., Sykorova, M., Yasin, F., Nolan, G. P., Slupsky, J. R., Kalakonda, N.
2019
- **Identification of NK cell subpopulations that differentiate HIV-infected subject cohorts with diverse level of virus control.** *Journal of virology*
Pohlmeier, C. W., Gonzalez, V. D., Irrinki, A., Ramirez, R. N., Li, L., Mulato, A., Murry, J. P., Arvey, A., Hoh, R., Deeks, S. G., Kukulj, G., Cihlar, T., Pflanz, et al
2019
- **A topological view of human CD34+ cell state trajectories from integrated single-cell output and proteomic data.** *Blood*
Knapp, D. J., Hammond, C. A., Wang, F., Aghaeepour, N., Miller, P. H., Beer, P. A., Pellacani, D., VanInsberghe, M., Hansen, C., Bendall, S. C., Nolan, G. P., Eaves, C. J.
2019
- **Scalable Conjugation and Characterization of Immunoglobulins with Stable Mass Isotope Reporters for Single-Cell Mass Cytometry Analysis.** *Methods in molecular biology (Clifton, N.J.)*
Hartmann, F. J., Simonds, E. F., Vivanco, N., Bruce, T., Borges, L., Nolan, G. P., Spitzer, M. H., Bendall, S. C.
2019; 1989: 55–81
- **Denisovan, modern human and mouse TNFAIP3 alleles tune A20 phosphorylation and immunity.** *Nature immunology*
Zammit, N. W., Siggs, O. M., Gray, P. E., Horikawa, K., Langley, D. B., Walters, S. N., Daley, S. R., Loetsch, C., Warren, J., Yap, J. Y., Cultrone, D., Russell, A., Malle, et al
2019; 20 (10): 1299–1310
- **Cellular Signaling Analysis shows antiviral, ribavirin-mediated ribosomal signaling modulation.** *Antiviral research*
Ding, X., Krutzik, P. O., Ghaffari, A. A., Zhaozhi, Y., Miranda, D., Cheng, G., Ho, C. M., Nolan, G. P., Sanchez, D. J.

2019; 104598

- **Voices in methods development.** *Nature methods*
Anikeeva, P., Boyden, E., Brangwynne, C., Cissé, I. I., Fiehn, O., Fromme, P., Gingras, A. C., Greene, C. S., Heard, E., Hell, S. W., Hillman, E., Jensen, G. J., Karchin, et al
2019; 16 (10): 945–51
- **Multimics modeling of the immunome, transcriptome, microbiome, proteome and metabolome adaptations during human pregnancy.** *Bioinformatics (Oxford, England)*
Ghaemi, M. S., DiGiulio, D. B., Contrepolis, K., Callahan, B., Ngo, T. T., Lee-McMullen, B., Lehallier, B., Robaczewska, A., Mcilwain, D., Rosenberg-Hasson, Y., Wong, R. J., Quaintance, C., Culos, et al
2019; 35 (1): 95–103
- **Defining human cardiac transcription factor hierarchies using integrated single-cell heterogeneity analysis.** *Nature communications*
Churko, J. M., Garg, P., Treutlein, B., Venkatasubramanian, M., Wu, H., Lee, J., Wessells, Q. N., Chen, S., Chen, W., Chetal, K., Mantalas, G., Neff, N., Jabart, et al
2018; 9 (1): 4906
- **Metal-isotope-tagged monoclonal antibodies for high-dimensional mass cytometry.** *Nature protocols*
Han, G., Spitzer, M. H., Bendall, S. C., Fantl, W. J., Nolan, G. P.
2018
- **Neurological, cognitive, and psychological findings among survivors of Ebola virus disease from the 1995 Ebola outbreak in Kikwit, Democratic Republic of Congo: a cross-sectional study.** *Clinical infectious diseases : an official publication of the Infectious Diseases Society of America*
Kelly, J. D., Hoff, N. A., Spencer, D., Musene, K., Bramble, M. S., McIlwain, D., Okitundu, D., Porco, T. C., Rutherford, G. W., Glymour, M. M., Bjornson, Z., Mukadi, P., Okitolonda-Wemakoy, et al
2018
- **Deep Profiling of Mouse Splenic Architecture with CODEX Multiplexed Imaging.** *Cell*
Goltsev, Y., Samusik, N., Kennedy-Darling, J., Bhate, S., Hale, M., Vazquez, G., Black, S., Nolan, G. P.
2018
- **MetaCyto: A Tool for Automated Meta-analysis of Mass and Flow Cytometry Data** *CELL REPORTS*
Hu, Z., Jujjavarapu, C., Hughey, J. J., Andorf, S., Lee, H., Gherardini, P., Spitzer, M. H., Thomas, C. G., Campbell, J., Dunn, P., Wisner, J., Kidd, B. A., Dudley, et al
2018; 24 (5): 1377–88
- **Three-dimensional intact-tissue sequencing of single-cell transcriptional states** *SCIENCE*
Wang, X., Allen, W. E., Wright, M. A., Sylwestrak, E. L., Samusik, N., Vesuna, S., Evans, K., Liu, C., Ramakrishnan, C., Liu, J., Nolan, G. P., Bava, F., Deisseroth, et al
2018; 361 (6400): 380+
- **Individualized drug combination based on single-cell drug perturbations**
Anchang, B., Davis, K., Fienberg, H., Bendall, S., Karacosta, L., Nolan, G., Plevritis, S. K.
AMER ASSOC CANCER RESEARCH.2018
- **Three-dimensional intact-tissue sequencing of single-cell transcriptional states.** *Science (New York, N.Y.)*
Wang, X., Allen, W. E., Wright, M. A., Sylwestrak, E. L., Samusik, N., Vesuna, S., Evans, K., Liu, C., Ramakrishnan, C., Liu, J., Nolan, G. P., Bava, F., Deisseroth, et al
2018
- **The Atacama skeleton.** *Genome research*
Nolan, G., Butte, A.
2018; 28 (5): 607–8
- **Single-cell developmental classification of B cell precursor acute lymphoblastic leukemia at diagnosis reveals predictors of relapse.** *Nature medicine*
Good, Z., Sarno, J., Jager, A., Samusik, N., Aghaeepour, N., Simonds, E. F., White, L., Lacayo, N. J., Fantl, W. J., Fazio, G., Gaipa, G., Biondi, A., Tibshirani, et al
2018; 24 (4): 474–83
- **SRC/ABL inhibition disrupts CRLF2-driven signaling to induce cell death in B-cell acute lymphoblastic leukemia.** *Oncotarget*
Sarno, J., Savino, A. M., Buracchi, C., Palmi, C., Pinto, S., Bugarin, C., Jager, A., Bresolin, S., Barber, R. C., Silvestri, D., Israeli, S., Dyer, M. J., Cazzaniga, et al

2018; 9 (33): 22872–85

- **Single-cell mass cytometry reveals distinct populations of brain myeloid cells in mouse neuroinflammation and neurodegeneration models.** *Nature neuroscience*
Ajami, B., Samusik, N., Wieghofer, P., Ho, P. P., Crotti, A., Bjornson, Z., Prinz, M., Fantl, W. J., Nolan, G. P., Steinman, L.
2018; 21 (4): 541–51
- **Whole-genome sequencing of Atacama skeleton shows novel mutations linked with dysplasia** *GENOME RESEARCH*
Bhattacharya, S., Li, J., Sockell, A., Kan, M. J., Bava, F. A., Chen, S., Avila-Arcos, M. C., Ji, X., Smith, E., Asadi, N. B., Lachman, R. S., Lam, H. K., Bustamante, et al
2018; 28 (4): 423–31
- **Publisher Correction: High-resolution myogenic lineage mapping by single-cell mass cytometry.** *Nature cell biology*
Porpiglia, E., Samusik, N., Van Ho, A. T., Cosgrove, B. D., Mai, T., Davis, K. L., Jager, A., Nolan, G. P., Bendall, S. C., Fantl, W. J., Blau, H. M.
2018
- **50-dimensional microenvironment analysis of human and mouse bone marrow during malignant transformation**
Schuerch, C. M., Barlow, G. L., Bhate, S. S., Samusik, N., Nolan, G., Goltsev, Y.
NATURE PUBLISHING GROUP.2018: 550
- **50-dimensional microenvironment analysis of human and mouse bone marrow during malignant transformation**
Schuerch, C. M., Barlow, G. L., Bhate, S. S., Samusik, N., Nolan, G., Goltsev, Y.
NATURE PUBLISHING GROUP.2018: 550
- **Commonly Occurring Cell Subsets in High-Grade Serous Ovarian Tumors Identified by Single-Cell Mass Cytometry** *CELL REPORTS*
Gonzalez, V. D., Samusik, N., Chen, T. J., Savig, E. S., Aghaeepour, N., Quigley, D. A., Huang, Y., Giangarra, V., Borowsky, A. D., Hubbard, N. E., Chen, S., Han, G., Ashworth, et al
2018; 22 (7): 1875–88
- **Complex mammalian-like haematopoietic system found in a colonial chordate.** *Nature*
Rosental, B., Kowarsky, M., Seita, J., Corey, D. M., Ishizuka, K. J., Palmeri, K. J., Chen, S. Y., Sinha, R., Okamoto, J., Mantalas, G., Manni, L., Raveh, T., Clarke, et al
2018
- **GateFinder: Projection-based Gating Strategy Optimization for Flow and Mass Cytometry.** *Bioinformatics (Oxford, England)*
Aghaeepour, N., Simonds, E. F., Knapp, D. J., Bruggner, R., Sachs, K., Culos, A., Gherardini, P. F., Samusik, N., Fragiadakis, G., Bendall, S., Gaudilliere, B., Angst, M. S., Eaves, et al
2018
- **DRUG-NEM: Optimizing drug combinations using single-cell perturbation response to account for intratumoral heterogeneity.** *Proceedings of the National Academy of Sciences of the United States of America*
Anchang, B., Davis, K. L., Fienberg, H. G., Williamson, B. D., Bendall, S. C., Karacosta, L. G., Tibshirani, R., Nolan, G. P., Plevritis, S. K.
2018; 115 (18): E4294–E4303
- **The Human Cell Atlas** *ELIFE*
Regev, A., Teichmann, S. A., Lander, E. S., Amt, I., Benoist, C., Birney, E., Bodenmiller, B., Campbell, P., Carninci, P., Clatworthy, M., Clevers, H., Deplancke, B., Dunham, et al
2017; 6
- **Atomic mass tag of bismuth-209 for increasing the immunoassay multiplexing capacity of mass cytometry** *CYTOMETRY PART A*
Han, G., Chen, S., Gonzalez, V. D., Zunder, E. R., Fantl, W. J., Nolan, G. P.
2017; 91A (12): 1150–63
- **SINGLE-CELL MASS CYTOMETRY OF HUMAN GLIOBLASTOMA REVEALS PHENOTYPIC HETEROGENEITY AND DISTINCT CELL CYCLE AND EPIGENETIC STATES AMONG GLIOMA STEM CELLS**
Simonds, E., Cayan, G., Park, J., Bendall, S., Nolan, G., Weiss, W.
OXFORD UNIV PRESS INC.2017: 230
- **Jak1 Integrates Cytokine Sensing to Regulate Hematopoietic Stem Cell Function and Stress Hematopoiesis** *CELL STEM CELL*
Kleppe, M., Spitzer, M. H., Li, S., Hill, C. E., Dong, L., Papalexis, E., De Groote, S., Bowman, R. L., Keller, M., Koppikar, P., Rapaport, F. T., Teruya-Feldstein, J., Gandara, et al

2017; 21 (4): 489-+

- **NKG2D ligand expression in Crohn's disease and NKG2D-dependent stimulation of CD8(+) T cell migration** *EXPERIMENTAL AND MOLECULAR PATHOLOGY*
Vadstrup, K., Galsgaard, E., Jensen, H., Lanier, L. L., Ryan, J. C., Chen, S., Nolan, G. P., Vester-Andersen, M., Pedersen, J., Gerwien, J., Jensen, T., Bendtsen, F.
2017; 103 (1): 56-70
- **In silico modeling identifies CD45 as a regulator of IL-2 synergy in the NKG2D-mediated activation of immature human NK cells** *SCIENCE SIGNALING*
Mukherjee, S., Jensen, H., Stewart, W., Stewart, D., Ray, W. C., Chen, S., Nolan, G. P., Lanier, L. L., Das, J.
2017; 10 (485)
- **IDENTIFICATION OF SMALL MOLECULE KINASE INHIBITORS WITH SPECIFIC ACTIVITY IN PEDIATRIC GLIOMA**
Simonds, E., Aghaeepour, N., Cayanan, G., Park, J., Nolan, G., Weiss, W.
OXFORD UNIV PRESS INC.2017: 27
- **Unifying mechanism for different fibrotic diseases** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Wernig, G., Chen, S., Cui, L., Van Neste, C., Tsai, J. M., Kambham, N., Vogel, H., Natkunam, Y., Gilliland, D. G., Nolan, G., Weissman, I. L.
2017; 114 (18): 4757-4762
- **High-resolution myogenic lineage mapping by single-cell mass cytometry** *NATURE CELL BIOLOGY*
Porpiglia, E., Samusik, N., Van Ho, A. T., Cosgrove, B. D., Mai, T., Davis, K. L., Jager, A., Nolan, G. P., Bendall, S. C., Fantl, W. J., Blau, H. M.
2017; 19 (5): 558-?
- **Mass cytometry identifies a distinct monocyte cytokine signature shared by clinically heterogeneous pediatric SLE patients.** *Journal of autoimmunity*
O'Gorman, W. E., Kong, D. S., Balboni, I. M., Rudra, P., Bolen, C. R., Ghosh, D., DAVIS, M. M., Nolan, G. P., Hsieh, E. W.
2017
- **Microsphere cytometry to interrogate microenvironment-dependent cell signaling.** *Integrative biology*
Ertsås, H. C., Nolan, G. P., LaBarge, M. A., Lorens, J. B.
2017; 9 (2): 123-134
- **EBI3 regulates the NK cell response to mouse cytomegalovirus infection.** *Proceedings of the National Academy of Sciences of the United States of America*
Jensen, H., Chen, S., Folkersen, L., Nolan, G. P., Lanier, L. L.
2017; 114 (7): 1625-1630
- **Mass cytometry analysis reveals hyperactive NF Kappa B signaling in myelofibrosis and secondary acute myeloid leukemia.** *Leukemia*
Fisher, D. A., Malkova, O., Engle, E. K., Miner, C. A., Fulbright, M. C., Behbehani, G. K., COLLINS, T. B., Bandyopadhyay, S., Zhou, A., Nolan, G. P., Oh, S. T.
2017
- **Expression of specific inflammasome gene modules stratifies older individuals into two extreme clinical and immunological states** *NATURE MEDICINE*
Furman, D., Chang, J., Lartigue, L., Bolen, C. R., Haddad, F., Gaudilliere, B., Ganio, E. A., Fragiadakis, G. K., Spitzer, M. H., Douchet, I., Daburon, S., Moreau, J., Nolan, et al
2017; 23 (2): 174-184
- **High-throughput precision measurement of subcellular localization in single cells.** *Cytometry. Part A : the journal of the International Society for Analytical Cytology*
Burns, T. J., Frei, A. P., Gherardini, P. F., Bava, F. A., Batchelder, J. E., Yoshiyasu, Y., Yu, J. M., Groziak, A. R., Kimmey, S. C., Gonzalez, V. D., Fantl, W. J., Nolan, G. P.
2017; 91 (2): 180-189
- **Systemic Immunity Is Required for Effective Cancer Immunotherapy.** *Cell*
Spitzer, M. H., Carmi, Y., Reticker-Flynn, N. E., Kwek, S. S., Madhiredy, D., Martins, M. M., Gherardini, P. F., Prestwood, T. R., Chabon, J., Bendall, S. C., Fong, L., Nolan, G. P., Engleman, et al
2017; 168 (3): 487-502 e15
- **Distinct signaling programs control human hematopoietic stem cell survival and proliferation.** *Blood*
Knapp, D. J., Hammond, C. A., Aghaeepour, N., Miller, P. H., Pellacani, D., Beer, P. A., Sachs, K., Qiao, W., Wang, W., Humphries, R. K., Sauvageau, G., Zandstra, P. W., Bendall, et al
2017; 129 (3): 307-318
- **High-throughput precision measurement of subcellular localization in single cells** *CYTOMETRY PART A*

- Burns, T. J., Frei, A. P., Gherardini, P. F., Bava, F. A., Batchelder, J. E., Yoshiyasu, Y., Yu, J. M., Groziak, A. R., Kimmey, S. C., Gonzalez, V. D., Fantl, W. J., Nolan, G. P.
2017; 91A (2): 180-189
- **Deep Immune Profiling of an Arginine-Enriched Nutritional Intervention in Patients Undergoing Surgery.** *Journal of immunology (Baltimore, Md. : 1950)*
Aghaeepour, N., Kin, C., Ganio, E. A., Jensen, K. P., Gaudilliere, D. K., Tingle, M., Tsai, A., Lancero, H. L., Choisy, B., McNeil, L. S., Okada, R., Shelton, A. A., Nolan, et al
2017
 - **Mass cytometry: The time to settle down.** *Cytometry A.*
Cosma, A., Nolan, G. P., Gaudilliere, B.
2017: 12–13
 - **The road ahead: Implementing mass cytometry in clinical studies, one cell at a time.** *Cytometry. Part B, Clinical cytometry*
Baca, Q., Cosma, A., Nolan, G., Gaudilliere, B.
2017; 92 (1): 10–11
 - **Mass cytometry: The time to settle down.** *Cytometry. Part A : the journal of the International Society for Analytical Cytology*
Cosma, A., Nolan, G., Gaudilliere, B.
2017; 91 (1): 12–13
 - **The road ahead: Implementing mass cytometry in clinical studies, one cell at a time.** *Cytometry B Clin Cytom.*
Baca, Q. J., Cosma, A., Nolan, G., Gaudilliere, B.
2017: 10–11
 - **Scalable multi-sample single-cell data analysis by Partition-Assisted Clustering and Multiple Alignments of Networks.** *PLoS computational biology*
Li, Y. H., Li, D., Samusik, N., Wang, X., Guan, L., Nolan, G. P., Wong, W. H.
2017; 13 (12): e1005875
 - **A gut bacterial pathway metabolizes aromatic amino acids into nine circulating metabolites.** *Nature*
Dodd, D., Spitzer, M. H., Van Treuren, W., Merrill, B. D., Hryckowian, A. J., Higginbottom, S. K., Le, A., Cowan, T. M., Nolan, G. P., Fischbach, M. A., Sonnenburg, J. L.
2017; 551 (7682): 648–52
 - **High-Dimensional Phenotypic Mapping of Human Dendritic Cells Reveals Interindividual Variation and Tissue Specialization.** *Immunity*
Alcántara-Hernández, M., Leylek, R., Wagar, L. E., Engleman, E. G., Keler, T., Marinkovich, M. P., Davis, M. M., Nolan, G. P., Idoyaga, J.
2017
 - **Upregulation of HERV-K is Linked to Immunity and Inflammation in Pulmonary Arterial Hypertension.** *Circulation*
Saito, T., Miyagawa, K., Chen, S. Y., Tamosiuniene, R., Wang, L., Sharp, O., Samayoa, E., Harada, D., Moonen, J. A., Cao, A., Chen, P. I., Hennigs, J. K., Gu, et al
2017
 - **An immune clock of human pregnancy.** *Science immunology*
Aghaeepour, N., Ganio, E. A., Mcilwain, D., Tsai, A. S., Tingle, M., Van Gassen, S., Gaudilliere, D. K., Baca, Q., McNeil, L., Okada, R., Ghaemi, M. S., Furman, D., Wong, et al
2017; 2 (15)
 - **Mapping the Fetomaternal Peripheral Immune System at Term Pregnancy.** *Journal of immunology*
Fragiadakis, G. K., Baca, Q. J., Gherardini, P. F., Ganio, E. A., Gaudilliere, D. K., Tingle, M., Lancero, H. L., McNeil, L. S., Spitzer, M. H., Wong, R. J., Shaw, G. M., Darmstadt, G. L., Sylvester, et al
2016
 - **Mutant IDH1 Downregulates ATM and Alters DNA Repair and Sensitivity to DNA Damage Independent of TET2.** *Cancer cell*
Inoue, S., Li, W. Y., Tseng, A., Beerman, I., Elia, A. J., Bendall, S. C., Lemonnier, F., Kron, K. J., Cescon, D. W., Hao, Z., Lind, E. F., Takayama, N., Planello, et al
2016; 30 (2): 337-348
 - **Visualization and cellular hierarchy inference of single-cell data using SPADE.** *Nature protocols*
Anchang, B., Hart, T. D., Bendall, S. C., Qiu, P., Bjornson, Z., Linderman, M., Nolan, G. P., Plevritis, S. K.
2016; 11 (7): 1264-1279

- **Small molecule inhibition of cAMP response element binding protein in human acute myeloid leukemia cells.** *Leukemia*
Mitton, B., Chae, H., Hsu, K., Dutta, R., Aldana-Masangkay, G., FERRARI, R., Davis, K., Tiu, B. C., Kaul, A., Lacayo, N., Dahl, G., Xie, F., Li, et al
2016
- **Automated mapping of phenotype space with single-cell data** *NATURE METHODS*
Samusik, N., Good, Z., Spitzer, M. H., Davis, K. L., Nolan, G. P.
2016; 13 (6): 493-?
- **In Reply.** *Anesthesiology*
Angst, M. S., Fragiadakis, G. K., Gaudillière, B., Aghaepour, N., Nolan, G. P.
2016; 124 (6): 1414-1415
- **Mass Cytometry: Single Cells, Many Features** *CELL*
Spitzer, M. H., Nolan, G. P.
2016; 165 (4): 780-791
- **Highly multiplexed simultaneous detection of RNAs and proteins in single cells.** *Nature methods*
Frei, A. P., Bava, F., Zunder, E. R., Hsieh, E. W., Chen, S., Nolan, G. P., Gherardini, P. F.
2016; 13 (3): 269-275
- **Coordinate actions of innate immune responses oppose those of the adaptive immune system during Salmonella infection of mice** *SCIENCE SIGNALING*
Hotson, A. N., Gopinath, S., Nicolau, M., Khasanova, A., Finck, R., Monack, D., Nolan, G. P.
2016; 9 (410)
- **A benchmark for evaluation of algorithms for identification of cellular correlates of clinical outcomes.** *Cytometry. Part A : the journal of the International Society for Analytical Cytology*
Aghaepour, N., Chattopadhyay, P., Chikina, M., Dhaene, T., Van Gassen, S., Kursa, M., Lambrecht, B. N., Malek, M., McLachlan, G. J., Qian, Y., Qiu, P., Saeys, Y., Stanton, et al
2016; 89 (1): 16-21
- **Coordinate actions of innate immune responses oppose those of the adaptive immune system during Salmonella infection of mice.** *Science signaling*
Hotson, A. N., Gopinath, S., Nicolau, M., Khasanova, A., Finck, R., Monack, D., Nolan, G. P.
2016; 9 (410): ra4
- **A benchmark for evaluation of algorithms for identification of cellular correlates of clinical outcomes** *CYTOMETRY PART A*
Aghaepour, N., Chattopadhyay, P., Chikina, M., Dhaene, T., Van Gassen, S., Kursa, M., Lambrecht, B. N., Malek, M., McLachlan, G. J., Qian, Y., Qiu, P., Saeys, Y., Stanton, et al
2016; 89A (1): 16-21
- **AN UPDATED DEBARCODING TOOL FOR MASS CYTOMETRY WITH CELL TYPE-SPECIFIC AND CELL SAMPLE-SPECIFIC STRINGENCY ADJUSTMENT.** *Pacific Symposium on Biocomputing. Pacific Symposium on Biocomputing*
Fread, K. I., Strickland, W. D., Nolan, G. P., Zunder, E. R.
2016; 22: 588-598
- **Patient-specific Immune States before Surgery Are Strong Correlates of Surgical Recovery** *ANESTHESIOLOGY*
Fragiadakis, G. K., Gaudilliere, B., Ganio, E. A., Aghaepour, N., Tingle, M., Nolan, G. P., Angst, M. S.
2015; 123 (6): 1241-1255
- **Deletions in the cytoplasmic domain of iRhom1 and iRhom2 promote shedding of the TNF receptor by the protease ADAM17** *SCIENCE SIGNALING*
Maney, S. K., McIlwain, D. R., Polz, R., Pandya, A. A., Sundaram, B., Wolff, D., Ohishi, K., Maretzky, T., Brooke, M. A., Evers, A., Vasudevan, A. A., Aghaepour, N., Scheller, et al
2015; 8 (401)
- **Single-cell systems-level analysis of human Toll-like receptor activation defines a chemokine signature in patients with systemic lupus erythematosus** *JOURNAL OF ALLERGY AND CLINICAL IMMUNOLOGY*
O'Gorman, W. E., Hsieh, E. W., Savig, E. S., Gherardini, P. F., Hernandez, J. D., Hansmann, L., Balboni, I. M., Utz, P. J., Bendall, S. C., Fantl, W. J., Lewis, D. B., Nolan, G. P., Davis, et al
2015; 136 (5): 1326-1336
- **UNIPOTENT MEGAKARYOPOIETIC PATHWAY BRIDGING HEMATOPOIETIC STEM CELLS AND MATURE MEGAKARYOCYTES**
Nishikii, H., Umemoto, T., Goltsev, Y., Matsuzaki, Y., Yamato, M., Nolan, G., Negrin, R., Chiba, S.

ELSEVIER SCIENCE INC.2015: S85

- **Implementing Mass Cytometry at the Bedside to Study the Immunological Basis of Human Diseases: Distinctive Immune Features in Patients with a History of Term or Preterm Birth.** *Cytometry. Part A : the journal of the International Society for Analytical Cytology*
Gaudillière, B., Ganio, E. A., Tingle, M., Lancero, H. L., Fragiadakis, G. K., Baca, Q. J., Aghaeepour, N., Wong, R. J., Quaintance, C., El-Sayed, Y. Y., Shaw, G. M., Lewis, D. B., Stevenson, et al
2015; 87 (9): 817-829
- **Mass Cytometric Functional Profiling of Acute Myeloid Leukemia Defines Cell-Cycle and Immunophenotypic Properties That Correlate with Known Responses to Therapy.** *Cancer discovery*
Behbehani, G. K., Samusik, N., Bjornson, Z. B., Fantl, W. J., Medeiros, B. C., Nolan, G. P.
2015; 5 (9): 988-1003
- **Implementing Mass Cytometry at the Bedside to Study the Immunological Basis of Human Diseases: Distinctive Immune Features in Patients with a History of Term or Preterm Birth** *CYTOMETRY PART A*
Gaudillière, B., Ganio, E. A., Tingle, M., Lancero, H. L., Fragiadakis, G. K., Baca, Q. J., Aghaeepour, N., Wong, R. J., Quaintance, C., El-Sayed, Y. Y., Shaw, G. M., Lewis, D. B., Stevenson, et al
2015; 87A (9): 817-829
- **Synthetically Modified Viral Capsids as Versatile Carriers for Use in Antibody-Based Cell Targeting.** *Bioconjugate chemistry*
ElSohly, A. M., Netirojjanakul, C., Aanei, I. L., Jager, A., Bendall, S. C., Farkas, M. E., Nolan, G. P., Francis, M. B.
2015; 26 (8): 1590-1596
- **mir-181a-1/b-1 Modulates Tolerance through Opposing Activities in Selection and Peripheral T Cell Function** *JOURNAL OF IMMUNOLOGY*
Schaffert, S. A., Loh, C., Wang, S., Arnold, C. P., Axtell, R. C., Newell, E. W., Nolan, G., Ansel, K. M., Davis, M. M., Steinman, L., Chen, C.
2015; 195 (4): 1470-1479
- **Synthetically Modified Viral Capsids as Versatile Carriers for Use in Antibody-Based Cell Targeting** *BIOCONJUGATE CHEMISTRY*
ElSohly, A. M., Netirojjanakul, C., Aanei, I. L., Jager, A., Bendall, S. C., Farkas, M. E., Nolan, G. P., Francis, M. B.
2015; 26 (8): 1590-1596
- **An interactive reference framework for modeling a dynamic immune system** *SCIENCE*
Spitzer, M. H., Gherardini, P. F., Fragiadakis, G. K., Bhattacharya, N., Yuan, R. T., Hotson, A. N., Finck, R., Carmi, Y., Zunder, E. R., Fantl, W. J., Bendall, S. C., Engleman, E. G., Nolan, et al
2015; 349 (6244): 155-?
- **IMMUNOLOGY. An interactive reference framework for modeling a dynamic immune system.** *Science*
Spitzer, M. H., Gherardini, P. F., Fragiadakis, G. K., Bhattacharya, N., Yuan, R. T., Hotson, A. N., Finck, R., Carmi, Y., Zunder, E. R., Fantl, W. J., Bendall, S. C., Engleman, E. G., Nolan, et al
2015; 349 (6244)
- **Reversibility of Defective Hematopoiesis Caused by Telomere Shortening in Telomerase Knockout Mice** *PLOS ONE*
Raval, A., Behbehani, G. K., Le Xuan Truong Nguyen, L. X., Thomas, D., Kusler, B., Garbuzov, A., Ramunas, J., Holbrook, C., Park, C. Y., Blau, H., Nolan, G. P., Artandi, S. E., Mitchell, et al
2015; 10 (7)
- **Data-Driven Phenotypic Dissection of AML Reveals Progenitor-like Cells that Correlate with Prognosis** *CELL*
Levine, J. H., Simonds, E. F., Bendall, S. C., Davis, K. L., Amir, E. D., Tadmor, M. D., Litvin, O., Fienberg, H. G., Jager, A., Zunder, E. R., Finck, R., Gedman, A. L., Radtke, et al
2015; 162 (1): 184-197
- **Unipotent Megakaryopoietic Pathway Bridging Hematopoietic Stem Cells and Mature Megakaryocytes** *STEM CELLS*
Nishikii, H., Kanazawa, Y., Umemoto, T., Goltsev, Y., Matsuzaki, Y., Matsushita, K., Yamato, M., Nolan, G. P., Negrin, R., Chiba, S.
2015; 33 (7): 2196-2207
- **Early reprogramming regulators identified by prospective isolation and mass cytometry** *NATURE*
Lujan, E., Zunder, E. R., Ng, Y. H., Goronzy, I. N., Nolan, G. P., Wernig, M.
2015; 521 (7552): 352-?
- **Mass cytometry as a platform for the discovery of cellular biomarkers to guide effective rheumatic disease therapy** *ARTHRITIS RESEARCH & THERAPY*
Nair, N., Mei, H. E., Chen, S., Hale, M., Nolan, G. P., Maecker, H. T., Genovese, M., Fathman, C. G., Whiting, C. C.

2015; 17

- **Nomenclature of Toso, Fas Apoptosis Inhibitory Molecule 3, and IgM FcR** *JOURNAL OF IMMUNOLOGY*
Kubagawa, H., Carroll, M. C., Jacob, C. O., Lang, K. S., Lee, K., Mak, T., McAndrews, M., Morse, H. C., Nolan, G. P., Ohno, H., Richter, G. H., Seal, R., Wang, et al
2015; 194 (9): 4055-4057
- **A Continuous Molecular Roadmap to iPSC Reprogramming through Progression Analysis of Single-Cell Mass Cytometry.** *Cell stem cell*
Zunder, E. R., Lujan, E., Goltsev, Y., Wernig, M., Nolan, G. P.
2015; 16 (3): 323-337
- **Immune Signatures of Women With Preterm Birth.**
Baca, Q. J., Gaudilliere, B., Nolan, G. P., Angst, M. S.
SAGE PUBLICATIONS INC.2015: 278A
- **Palladium-based mass tag cell barcoding with a doublet-filtering scheme and single-cell deconvolution algorithm.** *Nature protocols*
Zunder, E. R., Finck, R., Behbehani, G. K., Amir, E. D., Krishnaswamy, S., Gonzalez, V. D., Lorang, C. G., Bjornson, Z., Spitzer, M. H., Bodenmiller, B., Fantl, W. J., Pe'er, D., Nolan, et al
2015; 10 (2): 316-333
- **T-cell STAT3 is required for the maintenance of humoral immunity to LCMV.** *European journal of immunology*
McIlwain, D. R., Grusdat, M., Pozdeev, V. I., Xu, H. C., Shinde, P., Reardon, C., Hao, Z., Beyer, M., Bergthaler, A., Häussinger, D., Nolan, G. P., Lang, K. S., Lang, et al
2015; 45 (2): 418-427
- **Palladium-based mass tag cell barcoding with a doublet-filtering scheme and single-cell deconvolution algorithm.** *Nature protocols*
Zunder, E. R., Finck, R., Behbehani, G. K., Amir, E. D., Krishnaswamy, S., Gonzalez, V. D., Lorang, C. G., Bjornson, Z., Spitzer, M. H., Bodenmiller, B., Fantl, W. J., Pe'er, D., Nolan, et al
2015; 10 (2): 316-333
- **T-cell STAT3 is required for the maintenance of humoral immunity to LCMV.** *European journal of immunology*
McIlwain, D. R., Grusdat, M., Pozdeev, V. I., Xu, H. C., Shinde, P., Reardon, C., Hao, Z., Beyer, M., Bergthaler, A., Häussinger, D., Nolan, G. P., Lang, K. S., Lang, et al
2015; 45 (2): 418-427
- **Reversibility of Defective Hematopoiesis Caused by Telomere Shortening in Telomerase Knockout Mice.** *PloS one*
Raval, A., Behbehani, G. K., Nguyen, L. X., Thomas, D., Kusler, B., Garbuzov, A., Ramunas, J., Holbrook, C., Park, C. Y., Blau, H., Nolan, G. P., Artandi, S. E., Mitchell, et al
2015; 10 (7)
- **Deletions in the cytoplasmic domain of iRhom1 and iRhom2 promote shedding of the TNF receptor by the protease ADAM17.** *Science signaling*
Maney, S. K., McIlwain, D. R., Polz, R., Pandya, A. A., Sundaram, B., Wolff, D., Ohishi, K., Maretzky, T., Brooke, M. A., Evers, A., Vasudevan, A. A., Aghaeepour, N., Scheller, et al
2015; 8 (401): ra109-?
- **Mass cytometry as a platform for the discovery of cellular biomarkers to guide effective rheumatic disease therapy.** *Arthritis research & therapy*
Nair, N., Mei, H. E., Chen, S., Hale, M., Nolan, G. P., Maecker, H. T., Genovese, M., Fathman, C. G., Whiting, C. C.
2015; 17: 127-?
- **Transient partial permeabilization with saponin enables cellular barcoding prior to surface marker staining.** *Cytometry. Part A : the journal of the International Society for Analytical Cytology*
Behbehani, G. K., Thom, C., Zunder, E. R., Finck, R., Gaudilliere, B., Fragiadakis, G. K., Fantl, W. J., Nolan, G. P.
2014; 85 (12): 1011-1019
- **Conditional density-based analysis of T cell signaling in single-cell data** *SCIENCE*
Krishnaswamy, S., Spitzer, M. H., Mingueneau, M., Bendall, S. C., Litvin, O., Stone, E., Pe'er, D., Nolan, G. P.
2014; 346 (6213): 1079-?
- **Systems biology. Conditional density-based analysis of T cell signaling in single-cell data.** *Science*
Krishnaswamy, S., Spitzer, M. H., Mingueneau, M., Bendall, S. C., Litvin, O., Stone, E., Pe'er, D., Nolan, G. P.
2014; 346 (6213)

- **NRASG12V oncogene facilitates self-renewal in a murine model of acute myelogenous leukemia.** *Blood*
Sachs, Z., LaRue, R. S., Nguyen, H. T., Sachs, K., Noble, K. E., Mohd Hassan, N. A., Diaz-Flores, E., Rathe, S. K., Sarver, A. L., Bendall, S. C., Ha, N. A., Diers, M. D., Nolan, et al
2014; 124 (22): 3274-3283
- **NRAS9(G12V) oncogene facilitates self-renewal in a murine model of acute myelogenous leukemia** *BLOOD*
Sachs, Z., LaRue, R. S., Nguyen, H. T., Sachs, K., Noble, K. E., Hassan, N. A., Diaz-Flores, E., Rathe, S. K., Sarver, A. L., Bendall, S. C., Ha, N. A., Diers, M. D., Nolan, et al
2014; 124 (22): 3274-3283
- **Single-cell mass cytometry of TCR signaling: Amplification of small initial differences results in low ERK activation in NOD mice** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Mingueneau, M., Krishnaswamy, S., Spitzer, M. H., Bendall, S. C., Stone, E. L., Hedrick, S. M., Pe'er, D., Mathis, D., Nolan, G. P., Benoist, C.
2014; 111 (46): 16466-16471
- **Single-cell mass cytometry of TCR signaling: amplification of small initial differences results in low ERK activation in NOD mice.** *Proceedings of the National Academy of Sciences of the United States of America*
Mingueneau, M., Krishnaswamy, S., Spitzer, M. H., Bendall, S. C., Stone, E. L., Hedrick, S. M., Pe'er, D., Mathis, D., Nolan, G. P., Benoist, C.
2014; 111 (46): 16466-16471
- **Clinical recovery from surgery correlates with single-cell immune signatures** *SCIENCE TRANSLATIONAL MEDICINE*
Gaudilliere, B., Fragiadakis, G. K., Bruggner, R. V., Nicolau, M., Finck, R., Tingle, M., Silva, J., Ganio, E. A., Yeh, C. G., Maloney, W. J., Huddleston, J. I., Goodman, S. B., Davis, et al
2014; 6 (255)
- **Clinical recovery from surgery correlates with single-cell immune signatures.** *Science translational medicine*
Gaudillière, B., Fragiadakis, G. K., Bruggner, R. V., Nicolau, M., Finck, R., Tingle, M., Silva, J., Ganio, E. A., Yeh, C. G., Maloney, W. J., Huddleston, J. I., Goodman, S. B., Davis, et al
2014; 6 (255): 255ra131-?
- **Single-cell mass cytometry analysis of human tonsil T cell remodeling by varicella zoster virus.** *Cell reports*
Sen, N., Mukherjee, G., Sen, A., Bendall, S. C., Sung, P., Nolan, G. P., Arvin, A. M.
2014; 8 (2): 633-645
- **Single-Cell Mass Cytometry Analysis of Human Tonsil T Cell Remodeling by Varicella Zoster Virus** *CELL REPORTS*
Sen, N., Mukherjee, G., Sen, A., Bendall, S. C., Sung, P., Nolan, G. P., Arvin, A. M.
2014; 8 (2): 632-644
- **Automated identification of stratifying signatures in cellular subpopulations** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Bruggner, R. V., Bodenmiller, B., Dill, D. L., Tibshirani, R. J., Nolan, G. P.
2014; 111 (26): E2770-E2777
- **Automated identification of stratifying signatures in cellular subpopulations.** *Proceedings of the National Academy of Sciences of the United States of America*
Bruggner, R. V., Bodenmiller, B., Dill, D. L., Tibshirani, R. J., Nolan, G. P.
2014; 111 (26): E2770-7
- **Joint Modeling and Registration of Cell Populations in Cohorts of High-Dimensional Flow Cytometric Data** *PLOS ONE*
Pyne, S., Lee, S. X., Wang, K., Irish, J., Tamayo, P., Nazaire, M., Duong, T., Shu-Kay Ng, S. K., Hafner, D., Levy, R., Nolan, G. P., Mesirov, J., McLachlan, et al
2014; 9 (7)
- **Single-Cell Trajectory Detection Uncovers Progression and Regulatory Coordination in Human B Cell Development** *CELL*
Bendall, S. C., Davis, K. L., Amir, E. D., Tadmor, M. D., Simonds, E. F., Chen, T. J., Shenfeld, D. K., Nolan, G. P., Pe'er, D.
2014; 157 (3): 714-725
- **Multiplexed ion beam imaging of human breast tumors.** *Nature medicine*
Angelo, M., Bendall, S. C., Finck, R., Hale, M. B., Hitzman, C., Borowsky, A. D., Levenson, R. M., Lowe, J. B., Liu, S. D., Zhao, S., Natkunam, Y., Nolan, G. P.
2014; 20 (4): 436-442
- **High Dimensional Single-Cell Characterization of Human Toll-Like-Receptor Activation: Potential Clinical Applications in Systemic Lupus Erythematosus**

- Hsieh, E., O'Gorman, W., Balboni, I. M., Savig, E., Gherardini, P., Davis, M. M., Nolan, G. P.
SPRINGER/PLENUM PUBLISHERS.2014: 355
- **Multiplexed ion beam imaging of human breast tumors.** *Nature medicine*
Angelo, M., Bendall, S. C., Finck, R., Hale, M. B., Hitzman, C., Borowsky, A. D., Levenson, R. M., Lowe, J. B., Liu, S. D., Zhao, S., Natkunam, Y., Nolan, G. P.
2014; 20 (4): 436-442
 - **Antigen-Dependent Integration of Opposing Proximal TCR-Signaling Cascades Determines the Functional Fate of T Lymphocytes** *JOURNAL OF IMMUNOLOGY*
Wolchinsky, R., Hod-Marco, M., Oved, K., Shen-Orr, S. S., Bendall, S. C., Nolan, G. P., Reiter, Y.
2014; 192 (5): 2109-2119
 - **High Dimensional Single-Cell Mass Cytometry Demonstrates Conserved Human Toll-Like-Receptor Activation Signatures**
Hsieh, E., O'Gorman, W., Savig, E., Gherardini, P., Davis, M., Nolan, G.
MOSBY-ELSEVIER.2014: AB244
 - **Mass cytometry to decipher the mechanism of nongenetic drug resistance in cancer.** *Current topics in microbiology and immunology*
Fienberg, H. G., Nolan, G. P.
2014; 377: 85-94
 - **Leonard A Herzenberg 1931-2013** *NATURE IMMUNOLOGY*
Nolan, G. P.
2014; 15 (1): 1
 - **Snapin, Positive Regulator of Stimulation- Induced Ca²⁺ Release through RyR, Is Necessary for HIV-1 Replication in T Cells** *PLOS ONE*
Kinoshita, S. M., Kogure, A., Taguchi, S., Nolan, G. P.
2013; 8 (10)
 - **Towards rationale therapy: Dealing with intertumor and intratumor heterogeneity**
Amir, E., Litvin, O., Levine, J., Bendall, S. C., Davis, K. L., Simonds, E. F., Schild, T., Rocco, M., Rosen, N., Nolan, G. P., Pe'er, D.
AMER ASSOC CANCER RESEARCH.2013
 - **Multiparametric high dimensional analysis of normal & VZV infected human tonsil T cells at a single cell resolution by mass cytometry**
Sen, N., Mukherjee, G., Bendall, S. C., Sen, A., Jager, A., Sung, P., Nolan, G. P., Johnstone, I., Arvin, A. M.
ACADEMIC PRESS LTD- ELSEVIER SCIENCE LTD.2013: 298
 - **Single timepoint models of dynamic systems** *INTERFACE FOCUS*
Sachs, K., Itani, S., FitzGerald, J., Schoeberl, B., Nolan, G. P., Tomlin, C. J.
2013; 3 (4)
 - **Single-cell mass cytometry for analysis of immune system functional states.** *Current opinion in immunology*
Bjornson, Z. B., Nolan, G. P., Fantl, W. J.
2013; 25 (4): 484-494
 - **The transcriptional landscape of alpha beta T cell differentiation** *NATURE IMMUNOLOGY*
Mingueneau, M., Kreslavsky, T., Gray, D., Heng, T., Cruse, R., Ericson, J., Bendall, S., Spitzer, M., Nolan, G., Kobayashi, K., Von Boehmer, H., Mathis, D., Benoist, et al
2013; 14 (6): 619-?
 - **The Systemic Immune State of Super-shedder Mice Is Characterized by a Unique Neutrophil-dependent Blunting of TH1 Responses.** *PLoS pathogens*
Gopinath, S., Hotson, A., Johns, J., Nolan, G., Monack, D.
2013; 9 (6)
 - **The transcriptional landscape of alpha beta T cell differentiation.** *Nature immunology*
Mingueneau, M., Kreslavsky, T., Gray, D., Heng, T., Cruse, R., Ericson, J., Bendall, S., Spitzer, M. H., Nolan, G. P., Kobayashi, K., Von Boehmer, H., Mathis, D., Benoist, et al
2013; 14 (6): 619-632
 - **viSNE enables visualization of high dimensional single-cell data and reveals phenotypic heterogeneity of leukemia.** *Nature biotechnology*
Amir, E. D., Davis, K. L., Tadmor, M. D., Simonds, E. F., Levine, J. H., Bendall, S. C., Shenfeld, D. K., Krishnaswamy, S., Nolan, G. P., Pe'er, D.
2013; 31 (6): 545-552

- **Normalization of mass cytometry data with bead standards.** *Cytometry. Part A : the journal of the International Society for Analytical Cytology*
Finck, R., Simonds, E. F., Jager, A., Krishnaswamy, S., Sachs, K., Fantl, W., Pe'er, D., Nolan, G. P., Bendall, S. C.
2013; 83 (5): 483-494
- **Single cell mass cytometry of human peripheral blood reveals an endogenous immune response to surgical trauma**
Fragiadakis, G., Gaudilliere, B., Angst, M., Nolan, G.
AMER ASSOC IMMUNOLOGISTS.2013
- **A DEFINABLE "STRUCTURE" FOR THE IMMUNE SYSTEM AND CANCERS AT THE SINGLE CELL LEVEL**
Nolan, G. P.
WILEY-BLACKWELL.2013: 1
- **Systematically defining murine immunity at the phenotypic and functional levels via mass cytometry**
Spitzer, M., Hotson, A., Bendall, S., Engleman, E., Nolan, G.
AMER ASSOC IMMUNOLOGISTS.2013
- **A robust and sensitive flow cytometric method for multiplex RNA in-situ hybridization analysis of blood cells using oligo probes and branched DNA based signal amplification**
Lai, C., Levinson, S., Lin, A., Pache, J., Goltsev, Y., Nolan, G., Bers, G., Quan Nguyen
AMER ASSOC IMMUNOLOGISTS.2013
- **Inner-outer beauty: DNA-binding surface tags as cellular barcodes.** *Nature methods*
Nolan, G.
2013; 10 (5): 399-401
- **Involvement of Toso in activation of monocytes, macrophages, and granulocytes** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Lang, K. S., Lang, P. A., Meryk, A., Pandyra, A. A., Boucher, L., Pozdeev, V. I., Tusche, M. W., Goethert, J. R., Haight, J., Wakeham, A., You-Ten, A. J., McIlwain, D. R., Merches, et al
2013; 110 (7): 2593-2598
- **Single Cell Mass Cytometry of Dysregulated Signaling Networks in Myeloproliferative Neoplasms and Secondary Acute Myeloid Leukemia** *54th Annual Meeting and Exposition of the American-Society-of-Hematology (ASH)*
Fisher, D. A., Simonds, E. F., Behbehani, G. K., Nolan, G. P., Bendall, S. C., Oh, S. T.
AMER SOC HEMATOLOGY.2012
- **Dimensionality Reduction Reveals Distinct Shapes of Normal and Malignant Hematopoietic Cell Populations**
Bendall, S. C., Amir, E. D., Tadmor, M., Davis, K. L., Simonds, E. F., Shenfeld, D., Levine, J., Nolan, G. P., Pe'er, D.
AMER SOC HEMATOLOGY.2012
- **Single Cell Trajectory Detection Orders Hallmarks of Early Human B Cell Development**
Davis, K. L., Bendall, S. C., Amir, E. D., Simonds, E. F., Jager, A., Trejo, A., Pe'er, D., Nolan, G. P.
AMER SOC HEMATOLOGY.2012
- **Activated NRAS Mediates Self-Renewal Capacity in AML by Facilitating the MII/AF9-Specified Gene Expression Signature**
Sachs, Z., Hanh Nguyen, Hassan, N., Rathe, S. K., Sachs, K., Diaz-Flores, E., Bendall, S. C., Diers, M. D., Nolan, G. P., Shannon, K. M., Largaespada, D. A.
AMER SOC HEMATOLOGY.2012
- **Short Term Signalling Responses of the Most Primitive Subsets of Human Hematopoietic Cells Stimulated in Vitro Correlate with Their Subsequent Self-Renewal Behaviour** *54th Annual Meeting and Exposition of the American-Society-of-Hematology (ASH)*
Knapp, D. J., Bendall, S. C., Miller, P. H., Cheung, A. M., Imren, S., Humphries, R. K., Brinkman, R. R., Oostendorp, R. A., Nolan, G. P., Eaves, C. J.
AMER SOC HEMATOLOGY.2012
- **MASS CYTOMETRY TO COMPREHENSIVELY STUDY SINGLE CELL SIGNALING IN BIOLOGY AND DISEASE** *12th Euroconference on Clinical Cell Analysis / 8th European Clinical Cytometry Course*
Bodenmiller, B., Zunder, E., Finck, R., Chen, T., Savig, E., Bruggner, R., Simonds, E., Bendall, S., Sachs, K., Krutzik, P., Nolan, G.
WILEY-BLACKWELL.2012: 376-77
- **CytoSPADE: high-performance analysis and visualization of high-dimensional cytometry data** *BIOINFORMATICS*
Linderman, M. D., Bjornson, Z., Simonds, E. F., Qiu, P., Bruggner, R. V., Sheode, K., Meng, T. H., Plevritis, S. K., Nolan, G. P.

2012; 28 (18): 2400-2401

- **Multiplexed mass cytometry profiling of cellular states perturbed by small-molecule regulators** *NATURE BIOTECHNOLOGY*
Bodenmiller, B., Zunder, E. R., Finck, R., Chen, T. J., Savig, E. S., Bruggner, R. V., Simonds, E. F., Bendall, S. C., Sachs, K., Krutzik, P. O., Nolan, G. P.
2012; 30 (9): 858-U89
- **COP9 Signalosome Component JAB1/CSN5 Is Necessary for T Cell Signaling through LFA-1 and HIV-1 Replication** *PLOS ONE*
Kinoshita, S. M., Krutzik, P. O., Nolan, G. P.
2012; 7 (7)
- **From single cells to deep phenotypes in cancer** *NATURE BIOTECHNOLOGY*
Bendall, S. C., Nolan, G. P.
2012; 30 (7): 639-647
- **Single-cell mass cytometry adapted to measurements of the cell cycle** *CYTOMETRY PART A*
Behbehani, G. K., Bendall, S. C., Clutter, M. R., Fantl, W. J., Nolan, G. P.
2012; 81A (7): 552-566
- **Single-cell mass cytometry adapted to measurements of the cell cycle.** *Cytometry. Part A : the journal of the International Society for Analytical Cytology*
Behbehani, G. K., Bendall, S. C., Clutter, M. R., Fantl, W. J., Nolan, G. P.
2012; 81 (7): 552-566
- **A deep profiler's guide to cytometry** *TRENDS IN IMMUNOLOGY*
Bendall, S. C., Nolan, G. P., Roederer, M., Chattopadhyay, P. K.
2012; 33 (7): 323-332
- **Raman labeled nanoparticles: characterization of variability and improved method for unmixing** *JOURNAL OF RAMAN SPECTROSCOPY*
Kode, K., Shachaf, C., Elchuri, S., Nolan, G., Paik, D. S.
2012; 43 (7): 895-905
- **A platinum-based covalent viability reagent for single-cell mass cytometry.** *Cytometry. Part A : the journal of the International Society for Analytical Cytology*
Fienberg, H. G., Simonds, E. F., Fantl, W. J., Nolan, G. P., Bodenmiller, B.
2012; 81 (6): 467-475
- **A platinum-based covalent viability reagent for single-cell mass cytometry** *CYTOMETRY PART A*
Fienberg, H. G., Simonds, E. F., Fantl, W. J., Nolan, G. P., Bodenmiller, B.
2012; 81A (6): 467-475
- **Decoupling of Tumor-Initiating Activity from Stable Immunophenotype in HoxA9-Meis1-Driven AML** *CELL STEM CELL*
Gibbs, K. D., Jager, A., Crespo, O., Goltsev, Y., Trejo, A., Richard, C. E., Nolan, G. P.
2012; 10 (2): 210-217
- **Single-cell phospho-protein analysis by flow cytometry.** *Current protocols in immunology / edited by John E. Coligan ... [et al.]*
Schulz, K. R., Danna, E. A., Krutzik, P. O., Nolan, G. P.
2012; Chapter 8: Unit 8 17 1-20
- **Cytometry by Time-of-Flight Shows Combinatorial Cytokine Expression and Virus-Specific Cell Niches within a Continuum of CD8(+) T Cell Phenotypes** *IMMUNITY*
Newell, E. W., Sigal, N., Bendall, S. C., Nolan, G. P., Davis, M. M.
2012; 36 (1): 142-152
- **Raman Labeled Nanoparticles: Characterization of Variability and Improved Method for Unmixing.** *Journal of Raman spectroscopy : JRS*
Kode, K., Shachaf, C., Elchuri, S., Nolan, G., Paik, D. S.
2012; 43 (7): 895-905
- **A novel splice donor mutation in the thrombopoietin gene leads to exon 2 skipping in a Filipino family with hereditary thrombocytopenia.** *Blood*
Zhang, B., Ng, D., Jones, C., Oh, S. T., Nolan, G. P., Salehi, S., Wong, W., Zehnder, J. L., Gotlib, J.
2011; 118 (26): 6988-6990
- **A novel splice donor mutation in the thrombopoietin gene leads to exon 2 skipping in a Filipino family with hereditary thrombocytopenia** *BLOOD*
Ng, D., Jones, C., Oh, S. T., Nolan, G. P., Salehi, S., Wong, W., Zehnder, J. L., Gotlib, J.

2011; 118 (26): 6988-?

- **Flow cytometry in the post fluorescence era** *BEST PRACTICE & RESEARCH CLINICAL HAEMATOLOGY*
Nolan, G. R.
2011; 24 (4): 505-508
- **Signaling and Immunophenotypic Diversity in Pediatric Acute Myeloid Leukemia As Defined by 31-Parameter Single-Cell Mass Cytometry** *53rd Annual Meeting and Exposition of the American-Society-of-Hematology (ASH)*
Simonds, E. F., Bendall, S. C., Davis, K. L., Fienberg, H. G., Finck, R. L., Amir, E. D., Radtke, I., Downing, J. R., Pe'er, D., Nolan, G. P.
AMER SOC HEMATOLOGY.2011: 1100–1101
- **Novel Hematopoietic Progenitor Populations Revealed by Direct Assessment of GATA1 Protein Expression and cMPL Signaling Events** *STEM CELLS*
Heffner, G. C., Clutter, M. R., Nolan, G. P., Weissman, I. L.
2011; 29 (11): 1774-1782
- **Association of Reactive Oxygen Species-Mediated Signal Transduction with In Vitro Apoptosis Sensitivity in Chronic Lymphocytic Leukemia B Cells** *PLOS ONE*
Palazzo, A. L., Evensen, E., Huang, Y., Cesano, A., Nolan, G. P., Fantl, W. J.
2011; 6 (10)
- **Extracting a cellular hierarchy from high-dimensional cytometry data with SPADE** *NATURE BIOTECHNOLOGY*
Qiu, P., Simonds, E. F., Bendall, S. C., Gibbs, K. D., Bruggner, R. V., Linderman, M. D., Sachs, K., Nolan, G. P., Plevritis, S. K.
2011; 29 (10): 886-U181
- **A regression model approach to enable cell morphology correction in high-throughput flow cytometry** *MOLECULAR SYSTEMS BIOLOGY*
Knijnenburg, T. A., Roda, O., Wan, Y., Nolan, G. P., Aitchison, J. D., Shmulevich, I.
2011; 7
- **Structural Linkage between Ligand Discrimination and Receptor Activation by Type I Interferons** *CELL*
Thomas, C., Moraga, I., Levin, D., Krutzik, P. O., Podoplelova, Y., Trejo, A., Lee, C., Yarden, G., Vleck, S. E., Glenn, J. S., Nolan, G. P., Piehler, J., Schreiber, et al
2011; 146 (4): 621-632
- **Single-Cell Mass Cytometry of Differential Immune and Drug Responses Across a Human Hematopoietic Continuum** *SCIENCE*
Bendall, S. C., Simonds, E. F., Qiu, P., Amir, E. D., Krutzik, P. O., Finck, R., Bruggner, R. V., Melamed, R., Trejo, A., Ornatsky, O. I., Balderas, R. S., Plevritis, S. K., Sachs, et al
2011; 332 (6030): 687-696
- **Single-cell phospho-specific flow cytometric analysis demonstrates biochemical and functional heterogeneity in human hematopoietic stem and progenitor compartments** *BLOOD*
Gibbs, K. D., Gilbert, P. M., Sachs, K., Zhao, F., Blau, H. M., Weissman, I. L., Nolan, G. P., Majeti, R.
2011; 117 (16): 4226-4233
- **Cloud and heterogeneous computing solutions exist today for the emerging big data problems in biology** *NATURE REVIEWS GENETICS*
Schadt, E. E., Linderman, M. D., Sorenson, J., Lee, L., Nolan, G. P.
2011; 12 (3)
- **Fluorescent cell barcoding for multiplex flow cytometry.** *Current protocols in cytometry / editorial board, J. Paul Robinson, managing editor ... [et al.]*
Krutzik, P. O., Clutter, M. R., Trejo, A., Nolan, G. P.
2011; Chapter 6: Unit 6 31-?
- **Phospho flow cytometry methods for the analysis of kinase signaling in cell lines and primary human blood samples.** *Methods in molecular biology (Clifton, N.J.)*
Krutzik, P. O., Trejo, A., Schulz, K. R., Nolan, G. P.
2011; 699: 179-202
- **Phosphoproteomic Analysis Reveals Interconnected System-Wide Responses to Perturbations of Kinases and Phosphatases in Yeast** *SCIENCE SIGNALING*
Bodenmiller, B., Wanka, S., Kraft, C., Urban, J., Campbell, D., Pedrioli, P. G., Gerrits, B., Picotti, P., Lam, H., Vitek, O., Brusniak, M., Roschitzki, B., Zhang, et al
2010; 3 (153)

- **Identification of Novel LNK Mutations In Patients with Chronic Myeloproliferative Neoplasms and Related Disorders** *52nd Annual Meeting and Exposition of the American-Society-of-Hematology (ASH)*
Oh, S. T., Zahn, J. M., Jones, C. D., Zhang, B., Loh, M. L., Kantarjian, H., Simonds, E. F., Bruggner, R. V., Abidi, P., Natsoulis, G., Bell, J., Buenrostro, J., Nolan, et al
AMER SOC HEMATOLOGY.2010: 143-44
- **Oncogene Withdrawal Selectively Alters Phosphoprotein States and Shifts Differentiation Status In Myeloid Leukemia Subpopulations** *52nd Annual Meeting and Exposition of the American-Society-of-Hematology (ASH)*
Sachs, Z., Diaz-Flores, E., Diers, M. D., Sachs, K., Bendall, S. C., Fienberg, H. G., Rathe, S. K., Nolan, G. P., Shannon, K., Largaespada, D.
AMER SOC HEMATOLOGY.2010: 1300-1300
- **Clinical Translation of a Prognostic Follicular Lymphoma Signaling Profile** *52nd Annual Meeting and Exposition of the American-Society-of-Hematology (ASH)*
Irish, J. M., Czerwinski, D. K., Nolan, G. P., Levy, R.
AMER SOC HEMATOLOGY.2010: 279-79
- **Identification of a Novel Splice Donor Mutation In the Thrombopoietin Gene In a Philippine Family with Hereditary Thrombocytopenia** *52nd Annual Meeting and Exposition of the American-Society-of-Hematology (ASH)*
Gotlib, J., Zhang, B., Jones, C. D., Riess, J., Wong, W. B., Simonds, E. F., Hale, M. B., Abidi, P., McClung, J., Nolan, G. P., Oh, S. T., Zehnder, J. L.
AMER SOC HEMATOLOGY.2010: 1272-72
- **Tyramide signal amplification for analysis of kinase activity by intracellular flow cytometry.** *Cytometry. Part A : the journal of the International Society for Analytical Cytology*
Clutter, M. R., Heffner, G. C., Krutzik, P. O., Sachen, K. L., Nolan, G. P.
2010; 77 (11): 1020-1031
- **Tyramide Signal Amplification for Analysis of Kinase Activity by Intracellular Flow Cytometry** *CYTOMETRY PART A*
Clutter, M. R., Heffner, G. C., Krutzik, P. O., Sachen, K. L., Nolan, G. P.
2010; 77A (11): 1020-1031
- **Mammalian Target of Rapamycin Controls Dendritic Cell Development Downstream of Flt3 Ligand Signaling** *IMMUNITY*
Sathaliyawala, T., O'Gorman, W. E., Greter, M., Bogunovic, M., Konjufca, V., Hou, Z. E., Nolan, G. P., Miller, M. J., Merad, M., Reizis, B.
2010; 33 (4): 597-606
- **Duration of antigen receptor signaling determines T-cell tolerance or activation** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Katzman, S. D., O'Gorman, W. E., Villarino, A. V., Gallo, E., Friedman, R. S., Krummel, M. F., Nolan, G. P., Abbas, A. K.
2010; 107 (42): 18085-18090
- **Computational solutions to large-scale data management and analysis** *NATURE REVIEWS GENETICS*
Schadt, E. E., Linderman, M. D., Sorenson, J., Lee, L., Nolan, G. P.
2010; 11 (9): 647-657
- **Distinct Patterns of DNA Damage Response and Apoptosis Correlate with Jak/Stat and PI3Kinase Response Profiles in Human Acute Myelogenous Leukemia** *PLOS ONE*
Rosen, D. B., Putta, S., Covey, T., Huang, Y., Nolan, G. P., Cesano, A., Minden, M. D., Fantl, W. J.
2010; 5 (8)
- **Alternate Mechanisms of Initial Pattern Recognition Drive Differential Immune Responses to Related Poxviruses** *CELL HOST & MICROBE*
O'Gorman, W. E., Sampath, P., Simonds, E. F., Sikorski, R., O'Malley, M., Krutzik, P. O., Chen, H., Panchanathan, V., Chaudhri, G., Karupiah, G., Lewis, D. B., Thorne, S. H., Nolan, et al
2010; 8 (2): 174-185
- **Novel mutations in the inhibitory adaptor protein LNK drive JAK-STAT signaling in patients with myeloproliferative neoplasms** *BLOOD*
Oh, S. T., Simonds, E. F., Jones, C., Hale, M. B., Goltsev, Y., Gibbs, K. D., Merker, J. D., Zehnder, J. L., Nolan, G. P., Gotlib, J.
2010; 116 (6): 988-992
- **New technologies for autoimmune disease monitoring** *CURRENT OPINION IN ENDOCRINOLOGY DIABETES AND OBESITY*
Maecker, H. T., Nolan, G. P., Fathman, C. G.
2010; 17 (4): 322-328

- **B-cell signaling networks reveal a negative prognostic human lymphoma cell subset that emerges during tumor progression** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Irish, J. M., Myklebust, J. H., Alizadeh, A. A., Houot, R., Sharman, J. P., Czerwinski, D. K., Nolan, G. P., Levy, R.
2010; 107 (29): 12747-12754
- **High-throughput Bayesian Network Learning using Heterogeneous Multicore Computers.** *ICS ... : proceedings of the ... ACM International Conference on Supercomputing. International Conference on Supercomputing*
Linderman, M. D., Athalye, V., Meng, T. H., Asadi, N. B., Bruggner, R., Nolan, G. P.
2010; 2010: 95-104
- **Altered T Cell Antigen-specific Receptor Signaling in Tumor Infiltrating T Cells in Follicular Lymphomas** *10th Annual Meeting of the Federation-of-Clinical-Immunology-Societies*
Hsu, F., Irish, J., Sachs, K., Nolan, G.
ACADEMIC PRESS INC ELSEVIER SCIENCE.2010: S66-S66
- **Towards Program Optimization through Automated Analysis of Numerical Precision.** *Proceedings of the ... CGO : International Symposium on Code Generation and Optimization. International Symposium on Code Generation and Optimization*
Linderman, M. D., Ho, M., Dill, D. L., Meng, T. H., Nolan, G. P.
2010; 2010: 230-37
- **Towards Program Optimization through Automated Analysis of Numerical Precision** *8th International Symposium on Code Generation and Optimization*
Linderman, M. D., Ho, M., Dill, D. L., Meng, T. H., Nolan, G. P.
IEEE COMPUTER SOC.2010: 230-37
- **Single Cell Phospho-Flow Analysis of Cytokine Stimulation in Human Hematopoietic Progenitors Reveals That G-CSF Acts Directly On Human Hematopoietic Stem Cells.** *51st Annual Meeting and Exposition of the American-Society-of-Hematology*
Gibbs, K., Gilbert, P., Weissman, I. L., Blau, H. M., Nolan, G. P., Majeti, R.
AMER SOC HEMATOLOGY.2009: 1398-98
- **Stage Dependent Aberrant Regulation of Cytokine-STAT Signaling in Murine Systemic Lupus Erythematosus** *PLOS ONE*
Hale, M. B., Krutzik, P. O., Samra, S. S., Crane, J. M., Nolan, G. P.
2009; 4 (8)
- **The Initial Phase of an Immune Response Functions to Activate Regulatory T Cells** *JOURNAL OF IMMUNOLOGY*
O'Gorman, W. E., Dooms, H., Thorne, S. H., Kuswanto, W. F., Simonds, E. F., Krutzik, P. O., Nolan, G. P., Abbas, A. K.
2009; 183 (1): 332-339
- **The T Cell STAT Signaling Network Is Reprogrammed within Hours of Bacteremia via Secondary Signals** *JOURNAL OF IMMUNOLOGY*
Hotson, A. N., Hardy, J. W., Hale, M. B., Contag, C. H., Nolan, G. P.
2009; 182 (12): 7558-7568
- **Paired phospho-proteomic and genomic analyses reveal functionally distinct subclones in refractory pediatric acute myeloid leukemia**
Simonds, E., Schiffman, J., Gramatges, M., Dahl, G., Ford, J., Lacayo, N., Ji, H., Nolan, G.
AMER ASSOC CANCER RESEARCH.2009
- **A Novel Method for Detection of Phosphorylation in Single Cells by Surface Enhanced Raman Scattering (SERS) using Composite Organic-Inorganic Nanoparticles (COINs)** *PLOS ONE*
Shachaf, C. M., Elchuri, S. V., Koh, A. L., Zhu, J., Nguyen, L. N., Mitchell, D. J., Zhang, J., Swartz, K. B., Sun, L., Chan, S., Sinclair, R., Nolan, G. P.
2009; 4 (4)
- **WebFlow: A Software Package for High-Throughput Analysis of Flow Cytometry Data** *ASSAY AND DRUG DEVELOPMENT TECHNOLOGIES*
Hammer, M. M., Kotecha, N., Irish, J. M., Nolan, G. P., Krutzik, P. O.
2009; 7 (1): 44-55
- **Learning Signaling Network Structures with Sparsely Distributed Data** *JOURNAL OF COMPUTATIONAL BIOLOGY*
Sachs, K., Itani, S., Carlisle, J., Nolan, G. P., Pe'er, D., Lauffenburger, D. A.
2009; 16 (2): 201-212
- **Characterization of Patient Specific Signaling via Augmentation of Bayesian Networks with Disease and Patient State Nodes** *Annual International Conference of the IEEE-Engineering-in-Medicine-and-Biology-Society*
Sachs, K., Gentles, A. J., Youland, R., Itani, S., Irish, J., Nolan, G. P., Plevritis, S. K.

IEEE.2009: 6624–6627

- **LEARNING CYCLIC SIGNALING PATHWAY STRUCTURES WHILE MINIMIZING DATA REQUIREMENTS** *Pacific Symposium on Biocomputing*
Sachs, K., Itani, S., Fitzgerald, J., Wille, L., Schoeberl, B., Dahleh, M. A., Nolan, G. P.
WORLD SCIENTIFIC PUBL CO PTE LTD.2009: 63–74
- **Conditional protein stabilization via the small molecules Shld-1 and rapamycin increases the signal-to-noise ratio with tet-inducible gene expression** *BIOTECHNIQUES*
Almogy, G., Nolan, G. P.
2009; 46 (1): 44-50
- **Electron microscopy localization and characterization of functionalized composite organic-inorganic SERS nanoparticles on leukemia cells** *ULTRAMICROSCOPY*
Koh, A. L., Shachaf, C. M., Elchuri, S., Nolan, G. P., Sinclair, R.
2008; 109 (1): 111-121
- **Signaling Diversity in Human Lymphoma B Cells and in Tumor Infiltrating T Cells Correlates with Follicular Lymphoma Patient Clinical Outcomes** *50th Annual Meeting of the American-Society-of-Hematology/ASH/ASCO Joint Symposium*
Irish, J. M., Houot, R., Myklebust, J. H., Czerwinski, D. K., Nolan, G. P., Levy, R.
AMER SOC HEMATOLOGY.2008: 146–46
- **Single-cell profiling identifies aberrant STAT5 activation in myeloid malignancies with specific clinical and biologic correlates** *CANCER CELL*
Kotecha, N., Floress, N. J., Irish, J. M., Simonds, E. F., Sakai, D. S., Archambeault, S., Diaz-Flores, E., Coram, M., Shannon, K. M., Nolan, G. P., Loh, M. L.
2008; 14 (4): 335-343
- **MIFlowCyt: The Minimum Information about a Flow Cytometry Experiment** *CYTOMETRY PART A*
Lee, J. A., Spidlen, J., Boyce, K., Cai, J., Crosbie, N., Dalphin, M., Furlong, J., Gasparetto, M., Goldberg, M., Goralczyk, E. M., Hyun, B., Jansen, K., Kollmann, et al
2008; 73A (10): 926-930
- **MIFlowCyt: the minimum information about a Flow Cytometry Experiment.** *Cytometry. Part A : the journal of the International Society for Analytical Cytology*
Lee, J. A., Spidlen, J., Boyce, K., Cai, J., Crosbie, N., Dalphin, M., Furlong, J., Gasparetto, M., Goldberg, M., Goralczyk, E. M., Hyun, B., Jansen, K., Kollmann, et al
2008; 73 (10): 926-930
- **Genomic and proteomic analysis reveals a threshold level of MYC required for tumor maintenance** *CANCER RESEARCH*
Shachaf, C. M., Gentles, A. J., Elchuri, S., Sahoo, D., Soen, Y., Sharpe, O., Perez, O. D., Chang, M., Mitchel, D., Robinson, W. H., Dill, D., Nolan, G. P., Plevritis, et al
2008; 68 (13): 5132-5142
- **Single-cell, phosphoepitope-specific analysis demonstrates cell type- and pathway-specific dysregulation of Jak/STAT and MAPK signaling associated with in vivo human immunodeficiency virus type 1 infection** *JOURNAL OF VIROLOGY*
Lee, A. W., Sharp, E. R., O'Mahony, A., Rosenberg, M. G., Israelski, D. M., Nolan, G. P., Nixon, D. F.
2008; 82 (7): 3702-3712
- **High-content single-cell drug screening with phosphospecific flow cytometry** *NATURE CHEMICAL BIOLOGY*
Krutzik, P. O., Crane, J. M., Clutter, M. R., Nolan, G. P.
2008; 4 (2): 132-142
- **Structure learning for biomolecular pathways containing cycles** *8th IEEE International Conference on Bioinformatics and Bioengineering*
Itani, S., Sachs, K., Nolan, G. P., Dahleh, M. A.
IEEE.2008: 486–491
- **Targeting HMGCoA reductase for prevention of MYC expressing lymphoma**
Shachaf, C. M., Perez, O. D., Elchuri, S., Mitchell, D. J., Felsher, D. W., Nolan, G. P.
AMER ASSOC CANCER RESEARCH.2007: 3586S
- **A profile of 648 signaling network events identifies cell subsets with diverse, abnormal responses to lymphocyte stimuli within follicular lymphoma tumors** *49th Annual Meeting of the American-Society-of-Hematology*
Irish, J. M., Hsu, F. Y., Sharman, J. P., Houot, R., Brody, J. D., Czerwinski, D. K., Nolan, G. P., Levy, R.

AMER SOC HEMATOLOGY.2007: 111A–112A

- **A novel assay for juvenile myelomonocytic leukemia based on aberrant signaling networks measured via phospho-specific flow cytometry reduces diagnosis time from weeks to days.** *49th Annual Meeting of the American-Society-of-Hematology*
Kotecha, N., Flores, N. J., Irish, J. M., Sakaguchi, D., Archambeault, S., Diaz-Flores, E., Coram, M., Shannon, K. M., Nolan, G. P., Loh, M. L.
AMER SOC HEMATOLOGY.2007: 168A–168A
- **Inhibition of HMGCoA reductase by atorvastatin prevents and reverses MYC-induced lymphomagenesis** *BLOOD*
Shachaf, C. M., Perez, O. D., Youssef, S., Fan, A. C., Elchuri, S., Goldstein, M. J., Shirer, A. E., Sharpe, O., Chen, J., Mitchell, D. J., Chang, M., Nolan, G. P., Steinman, et al
2007; 110 (7): 2674-2684
- **Toward understanding the molecular mechanisms of lineage determination in hematopoietic stem cells** *36th Annual Meeting of the International-Society-for-Experimental-Hematology*
Heffner, G. C., Clutter, M. R., Nolan, G. P., Weissman, I. L.
ELSEVIER SCIENCE INC.2007: 19–19
- **K-Ras(G12D) expression induces hyperproliferation and aberrant signaling in primary hematopoietic stem/progenitor cells** *BLOOD*
Van Meter, M. E., Diaz-Flores, E., Archard, J. A., Passegue, E., Irish, J. M., Kotecha, N., Nolan, G. P., Shannon, K., Braun, B. S.
2007; 109 (9): 3945-3952
- **What's wrong with drug screening today** *NATURE CHEMICAL BIOLOGY*
Nolan, G. P.
2007; 3 (4): 187-191
- **Flt3 Y591 duplication and Bcl-2 overexpression are detected in acute myeloid leukemia cells with high levels of phosphorylated wild-type p53** *BLOOD*
Irish, J. M., Anensen, N., Hovland, R., Skavland, J., Borresen-Dale, A., Bruserud, O., Nolan, G. P., Gjertsen, B. T.
2007; 109 (6): 2589-2596
- **RACK1 regulates Ki-Ras-mediated signaling and morphological transformation of NIH 3T3 cells** *INTERNATIONAL JOURNAL OF CANCER*
Bjorndal, B., Myklebust, L. M., Rosendal, K. R., Myromslien, F. D., Lorens, J. B., Nolan, G., Bruland, O., Lillehaug, J. R.
2007; 120 (5): 961-969
- **The ERK mitogen-activated protein kinase pathway contributes to Ebola virus glycoprotein-induced cytotoxicity** *JOURNAL OF VIROLOGY*
Zampieri, C. A., Fortin, J., Nolan, G. P., Nabel, G. J.
2007; 81 (3): 1230-1240
- **Differential role of ICAM ligands in determination of human memory T cell differentiation** *BMC IMMUNOLOGY*
Perez, O. D., Mitchell, D., Nolan, G. P.
2007; 8
- **Visualizing inside the cell** *BIOLOGY OF BLOOD AND MARROW TRANSPLANTATION*
Nolan, G.
2007; 13 (1): 120-123
- **Cell-type specific changes in Cytokine-STAT signal transduction stage systemic lupus erythematosus**
Matthew, Krutzik, P., Nolan, G.
ACADEMIC PRESS INC ELSEVIER SCIENCE.2007: S138–S139
- **Altered B-cell receptor signaling kinetics distinguish human follicular lymphoma. B cells from tumor-infiltrating nonmalignant B cells** *BLOOD*
Irish, J. M., Czerwinski, D. K., Nolan, G. P., Levy, R.
2006; 108 (9): 3135-3142
- **Kinetics of B cell receptor signaling in human B cell subsets mapped by phosphospecific flow cytometry** *JOURNAL OF IMMUNOLOGY*
Irish, J. M., Czerwinski, D. K., Nolan, G. P., Levy, R.
2006; 177 (3): 1581-1589
- **Global transcriptional response to interferon is a determinant of HCV treatment outcome and is modified by race** *HEPATOLOGY*
He, X., Ji, X., Hale, M. B., Cheung, R., Ahmed, A., Guo, Y., Nolan, G. P., Pfeffer, L. M., Wright, T. L., Risch, N., Tibshirani, R., Greenberg, H. B.
2006; 44 (2): 352-359

- **Chemical labeling strategies for cell biology** *NATURE METHODS*
Marks, K. M., Nolan, G. P.
2006; 3 (8): 591-596
- **Phospho-specific flow cytometry: Intersection of immunology and biochemistry at the single-cell level** *CURRENT OPINION IN MOLECULAR THERAPEUTICS*
Hale, M. B., Nolan, G. P.
2006; 8 (3): 215-224
- **Fluorescent cell barcoding in flow cytometry allows high-throughput drug screening and signaling profiling** *NATURE METHODS*
Krutzik, P. O., Nolan, G. P.
2006; 3 (5): 361-368
- **Luminescent imaging of beta-galactosidase activity in living subjects using sequential reporter-enzyme luminescence** *NATURE METHODS*
Wehrman, T. S., von Degenfeld, G., Krutzik, P., Nolan, G. P., Blau, H. M.
2006; 3 (4): 295-301
- **Phospho-proteomic immune analysis by flow cytometry: from mechanism to translational medicine at the single-cell level** *IMMUNOLOGICAL REVIEWS*
Perez, O. D., Nolan, G. P.
2006; 210: 208-228
- **Transcending the biomarker mindset: deciphering disease mechanisms at the single cell level** *CURRENT OPINION IN CHEMICAL BIOLOGY*
Danna, E. A., Nolan, G. P.
2006; 10 (1): 20-27
- **Innovation - Mapping normal and cancer cell signalling networks: towards single-cell proteomics** *NATURE REVIEWS CANCER*
Irish, J. M., Kotecha, N., Nolan, G. P.
2006; 6 (2): 146-155
- **Mapping normal and cancer cell signalling networks: towards single-cell proteomics.** *Nature reviews. Cancer*
Irish, J. M., Kotecha, N., Nolan, G. P.
2006; 6 (2): 146-155
- **Deeper insights into hematological oncology disorders via single-cell phospho-signaling analysis.** *Hematology / the Education Program of the American Society of Hematology. American Society of Hematology. Education Program*
Nolan, G. P.
2006: 123-?
- **Rapid, sustained B cell receptor signaling in lymphoma B cells differs from normal signaling in tumor infiltrating nonmalignant B cells.** *47th Annual Meeting of the American-Society-of-Hematology*
Irish, J. M., Czerwinski, D. K., Nolan, G. P., Levy, R.
AMER SOC HEMATOLOGY.2005: 86A-87A
- **Multiparameter flow cytometric analysis reveals aberrant phosphorylation of a network of effector molecules in defined populations of Kras mutant bone marrow.** *47th Annual Meeting of the American-Society-of-Hematology*
Van Meter, M. E., Diaz-Flores, E., Archard, J. A., Kotecha, N., Sabnis, A. J., Irish, J. M., Nolan, G. P., Shannon, K. M., Braun, B. S.
AMER SOC HEMATOLOGY.2005: 73A-73A
- **T-Cell tropism and the role of ORF66 protein in pathogenesis of varicella-zoster virus infection** *JOURNAL OF VIROLOGY*
Schaap, A., Fortin, J. F., Sommer, M., Zerboni, L., Stamatis, S., Ku, C. C., Nolan, G. P., Arvin, A. M.
2005; 79 (20): 12921-12933
- **Phospho-specific flow cytometry in drug discovery.** *Drug discovery today. Technologies*
Clutter, M. R., Krutzik, P. O., Nolan, G. P.
2005; 2 (3): 295-302
- **Coordinate analysis of murine immune cell surface markers and intracellular phosphoproteins by flow cytometry** *JOURNAL OF IMMUNOLOGY*
Krutzik, P. O., Clutter, M. R., Nolan, G. P.
2005; 175 (4): 2357-2365

- **Characterization of the murine immunological signaling network with phosphospecific flow cytometry** *JOURNAL OF IMMUNOLOGY*
Krutzik, P. O., Hale, M. B., Nolan, G. P.
2005; 175 (4): 2366-2373
- **Multiparameter analysis of intracellular phosphoepitopes in immunophenotyped cell populations by flow cytometry.** *Current protocols in cytometry / editorial board, J. Paul Robinson, managing editor ... [et al.]*
Perez, O. D., Mitchell, D., Campos, R., Gao, G., Li, L., Nolan, G. P.
2005; Chapter 6: Unit 6 20-?
- **Y-box-binding protein 1 confers EGF independence to human mammary epithelial cells** *ONCOGENE*
Berquin, I. M., Pang, B., Dziubinski, M. L., Scott, L. M., Chen, Y. Q., Nolan, G. P., Ethier, S. P.
2005; 24 (19): 3177-3186
- **Causal protein-signaling networks derived from multiparameter single-cell data** *SCIENCE*
Sachs, K., Perez, O., Pe'er, D., Lauffenburger, D. A., Nolan, G. P.
2005; 308 (5721): 523-529
- **A random peptide library fused to CCR5 for selection of mimetopes expressed on the mammalian cell surface via retroviral vectors** *JOURNAL OF BIOLOGICAL CHEMISTRY*
Wolkowicz, R., Jager, G. C., Nolan, G. P.
2005; 280 (15): 15195-15201
- **Gene therapy progress and prospects: Novel gene therapy approaches for AIDS** *GENE THERAPY*
Wolkowicz, R., Nolan, G. P.
2005; 12 (6): 467-476
- **Tadpoles by the tail** *NATURE METHODS*
Nolan, G. P.
2005; 2 (1): 11-12
- **Screening of retroviral cDNA libraries for factors involved in protein phosphorylation in signaling cascades** *NUCLEIC ACIDS RESEARCH*
Stitz, J., Krutzik, P. O., Nolan, G. P.
2005; 33 (4)
- **LFA-1 signaling through p44/42 is coupled to perforin degranulation in CD56(+)CD8(+) natural killer cells** *BLOOD*
Perez, O. D., Mitchell, D., Jager, G. C., Nolan, G. P.
2004; 104 (4): 1083-1093
- **Prolonged liver-specific transgene expression by a non-primate lentiviral vector** *BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS*
Condiotti, R., Curran, M. A., Nolan, G. P., Giladi, H., Ketzinel-Gilad, M., Gross, E., Galun, E.
2004; 320 (3): 998-1006
- **Single cell profiling of potentiated phospho-protein networks in cancer cells** *CELL*
Irish, J. M., Hovland, R., Krutzik, P. O., Perez, O. D., Bruserud, O., Gjertsen, B. T., Nolan, G. P.
2004; 118 (2): 217-228
- **A general approach for chemical labeling and rapid, spatially controlled protein inactivation** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Marks, K. M., Braun, P. D., Nolan, G. P.
2004; 101 (27): 9982-9987
- **Analysis of protein phosphorylation and cellular signaling events by flow cytometry: techniques and clinical applications** *CLINICAL IMMUNOLOGY*
Krutzik, P. O., Irish, J. M., Nolan, G. P., Perez, O. D.
2004; 110 (3): 206-221
- **In vivo targeting of organic calcium sensors via genetically selected peptides** *CHEMISTRY & BIOLOGY*
Marks, K. M., Rosinov, M., Nolan, G. P.
2004; 11 (3): 347-356
- **Oligonucleotide-directed site-specific integration of high complexity libraries into ssDNA templates** *NUCLEIC ACIDS RESEARCH*

- Hale, M. B., Nolan, G. P., Wolkowicz, R.
2004; 32 (2)
- **Analysis of signaling pathways in human T-Cells using Bayesian network modeling of single cell data** *IEEE Computational Systems Bioinformatics Conference (CSB 2004)*
Sachs, K., Perez, O. D., Pe'er, D., Nolan, G. P., Gifford, D. K., Jaakkola, T. S., Lauffenburger, D. A.
IEEE COMPUTER SOC.2004: 644-644
 - **Flow cytometric analysis of kinase signaling cascades.** *Methods in molecular biology (Clifton, N.J.)*
Perez, O. D., Krutzik, P. O., Nolan, G. P.
2004; 263: 67-94
 - **Lentiviral vectors for the delivery of DNA into mammalian cells.** *Methods in molecular biology (Clifton, N.J.)*
Wolkowicz, R., Nolan, G. P., Curran, M. A.
2004; 246: 391-411
 - **Leukocyte functional antigen 1 lowers T cell activation thresholds and signaling through cytohesin-1 and Jun-activating binding protein 1** *NATURE IMMUNOLOGY*
Perez, O. D., Mitchell, D., Jager, G. C., South, S., Murriel, C., McBride, J., Herzenberg, L. A., Kinoshita, S., Nolan, G. P.
2003; 4 (11): 1083-1092
 - **Intracellular phospho-protein staining techniques for flow cytometry: Monitoring single cell signaling events** *CYTOMETRY PART A*
Krutzik, P. O., Nolan, G. P.
2003; 55A (2): 61-70
 - **Intracellular phospho-protein staining techniques for flow cytometry: monitoring single cell signaling events.** *Cytometry. Part A : the journal of the International Society for Analytical Cytology*
Krutzik, P. O., Nolan, G. P.
2003; 55 (2): 61-70
 - **Localized expression of an anti-TNF single-chain antibody prevents development of collagen-induced arthritis** *GENE THERAPY*
Smith, R., Turner, I. H., Hollenhorst, M., Lin, C., Levicnik, A. U., Fathman, C. G., Nolan, G. P.
2003; 10 (15): 1248-1257
 - **Interaction of HLA-DR with an acidic face of HLA-DM disrupts sequence-dependent interactions with peptides** *IMMUNITY*
Pashine, A., Busch, R., Belmares, M. P., Munning, J. N., Doebele, R. C., Buckingham, M., Nolan, G. P., Mellins, E. D.
2003; 19 (2): 183-192
 - **Polyclonal antibodies to xenogeneic endothelial cells induce apoptosis and block support of tumor growth in mice** *VACCINE*
Scappaticci, F. A., CONTRERAS, A., Boswell, C. A., Lewis, J. S., Nolan, G.
2003; 21 (19-20): 2667-2677
 - **Retroviral technology - Applications for expressed peptide libraries** *FRONTIERS IN BIOSCIENCE-LANDMARK*
Wolkowicz, R., Nolan, G. P.
2003; 8: D603-D619
 - **Induction of anti-tumor immunity in mice using a syngeneic endothelial cell vaccine** *ANTICANCER RESEARCH*
Scappaticci, F. A., Nolan, G. P.
2003; 23 (2B): 1165-1172
 - **Treatment of autoimmune disease by adoptive cellular gene therapy** *10th International Conference on Myasthenia Gravis and Related Disorders*
Turner, I. H., Slavin, A. J., McBride, J., Levicnik, A., Smith, R., Nolan, G. P., Contag, C. H., Fathman, C. G.
NEW YORK ACAD SCIENCES.2003: 512-519
 - **Expression from second-generation feline immunodeficiency virus vectors is impaired in human hematopoietic cells** *MOLECULAR THERAPY*
Price, M. A., Case, S. S., Carbonaro, D. A., Yu, X. J., Petersen, D., Sabo, K. M., Curran, M. A., Engel, B. C., Margarian, H., Abkowitz, J. L., Nolan, G. P., Kohn, D. B., Crooks, et al
2002; 6 (5): 645-652
 - **Efficient transduction of pancreatic islets by feline immunodeficiency virus vectors** *TRANSPLANTATION*
Curran, M. A., Ochoa, M. S., Molano, R. D., Pileggi, A., Inverardi, L., Kenyon, N. S., Nolan, G. P., Ricordi, C., Fenjves, E. S.

2002; 74 (3): 299-306

- **Functional cloning of SPIN-2, a nuclear anti-apoptotic protein with roles in cell cycle progression** *LEUKEMIA*
Fletcher, B. S., Dragstedt, C., Notterpek, L., Nolan, G. P.
2002; 16 (8): 1507-1518
- **Recognizing a something when your library sees it** *CHEMISTRY & BIOLOGY*
Fortin, J. F., Nolan, G. P.
2002; 9 (6): 670-672
- **Motexafin gadolinium (Gd-Tex) selectively induces apoptosis in HIV-1 infected CD4+T helper cells** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Perez, O. D., Nolan, G. P., Magda, D., MILLER, R. A., Herzenberg, L. A., Herzenberg, L. A.
2002; 99 (4): 2270-2274
- **Simultaneous measurement of multiple active kinase states using polychromatic flow cytometry** *NATURE BIOTECHNOLOGY*
Perez, O. D., Nolan, G. P.
2002; 20 (2): 155-162
- **Activation of the PKB/AKT pathway by ICAM-2** *IMMUNITY*
Perez, O. D., Kinoshita, S., Hitoshi, Y., Payan, D. G., Kitamura, T., Nolan, G. P., Lorens, J. B.
2002; 16 (1): 51-65
- **Recombinant feline immunodeficiency virus vectors. Preparation and use.** *Methods in molecular medicine*
Curran, M. A., Nolan, G. P.
2002; 69: 335-350
- **Nonprimate lentiviral vectors** *LENTIVIRAL VECTORS*
Curran, M. A., Nolan, G. P.
2002; 261: 75-105
- **Induction of anti-tumor immunity in mice using a syngeneic endothelial cell vaccine.**
Scappaticci, F. A., Sainath, P., Contreras, A., Nolan, G. P.
AMER SOC HEMATOLOGY.2001: 823A
- **Resistance is futile: Assimilation of cellular machinery by HIV-1** *IMMUNITY*
Perez, O. D., Nolan, G. P.
2001; 15 (5): 687-690
- **Genetic selection and the lure of SIN - A rapid method for exploring gene function uses alphavirus expression cloning.** *NATURE BIOTECHNOLOGY*
Nolan, G. P.
2001; 19 (9): 824-825
- **A functional screen for genes inducing epidermal growth factor autonomy of human mammary epithelial cells confirms the role of amphiregulin** *ONCOGENE*
Berquin, I. M., Dziubinski, M. L., Nolan, G. P., Ethier, S. P.
2001; 20 (30): 4019-4028
- **Rapid production of retroviruses for efficient gene delivery to mammalian cells using 293T cell-based systems.** *Current protocols in immunology / edited by John E. Coligan ... [et al.]*
Swift, S., Lorens, J., Achacoso, P., Nolan, G. P.
2001; Chapter 10: Unit 10 17C-?
- **Retroviral transduction of a T cell receptor specific for an Epstein-Barr virus-encoded peptide** *CLINICAL IMMUNOLOGY*
Orentas, R. J., Roskopf, S. J., Nolan, G. P., Nishimura, M. I.
2001; 98 (2): 220-228
- **Combination angiostatin and endostatin gene transfer induces synergistic antiangiogenic activity in vitro and antitumor efficacy in leukemia and solid tumors in mice** *MOLECULAR THERAPY*
Scappaticci, F. A., Smith, R., Pathak, A., Schloss, D., Lum, B., Cao, Y. H., Johnson, F., Engleman, E. G., Nolan, G. P.
2001; 3 (2): 186-196

- **Statin-AE: a novel angiostatin-endostatin fusion protein with enhanced antiangiogenic and antitumor activity.** *Angiogenesis*
Scappaticci, F. A., CONTRERAS, A., Smith, R., Bonhoure, L., Lum, B., Cao, Y., Engleman, E. G., Nolan, G. P.
2001; 4 (4): 263-268
- **Dominant effector genetics in mammalian cells** *NATURE GENETICS*
Xu, X., Leo, C., Jang, Y. J., Chan, E., Padilla, D., Huang, B. C., Lin, T., Gururaja, T., Hitoshi, Y., Lorens, J. B., Anderson, D. C., Sikic, B., Luo, et al
2001; 27 (1): 23-29
- **Wnt signaling is required for thymocyte development and activates Tcf-1 mediated transcription** *EUROPEAN JOURNAL OF IMMUNOLOGY*
Staal, F. J., Meeldijk, J., Moerer, P., Jay, P., van de Weerd, B. C., VAINIO, S., Nolan, G. P., Clevers, H.
2001; 31 (1): 285-293
- **Neurotrophin dependence domain - A domain required for the mediation of apoptosis by the p75 neurotrophin receptor** *JOURNAL OF MOLECULAR NEUROSCIENCE*
Rabizadeh, S., Ye, X., Sperandio, S., Wang, J. J., Ellerby, H. M., Ellerby, L. M., Giza, C., Andrusiak, R. L., Frankowski, H., Yaron, Y., Moayeri, N. N., Rovelli, G., Evans, et al
2000; 15 (3): 215-229
- **Development of antiangiogenic radioligands for cancer in imaging and therapy.**
Scappaticci, F. A., Goris, M., Contreras, A., Trisler, K., Nolan, G. P.
AMER SOC HEMATOLOGY.2000: 61B
- **Expression of a peptide binding to receptor for activated C-kinase (RACK1) inhibits phorbol myristoyl acetate-stimulated phospholipase D activity in C3H/10T1/2 cells: dissociation of phospholipase D-mediated phosphatidylcholine breakdown from its synthesis** *BIOCHIMICA ET BIOPHYSICA ACTA-MOLECULAR AND CELL BIOLOGY OF LIPIDS*
Thorsen, V. A., Bjorndal, B., Nolan, G., Fukami, M. H., Bruland, O., Lillehaug, J. R., Holmsen, H.
2000; 1487 (2-3): 163-176
- **Retroviral delivery of peptide modulators of cellular functions** *MOLECULAR THERAPY*
Lorens, J. B., Bennet, M. K., Pearsall, D. M., Thronset, W. R., Rossi, A. B., Armstrong, R. J., Fox, B. P., Chan, E. H., Luo, Y., Masuda, E., Ferrick, D. A., Anderson, D. C., Payan, et al
2000; 1 (5): 438-447
- **Targeting rare populations of murine antigen-specific T lymphocytes by retroviral transduction for potential application in gene therapy for autoimmune disease** *JOURNAL OF IMMUNOLOGY*
Costa, G. L., Benson, J. M., Seroogy, C. M., Achacoso, P., Fathman, C. G., Nolan, G. P.
2000; 164 (7): 3581-3590
- **Efficient transduction of nondividing cells by optimized feline immunodeficiency virus vectors** *MOLECULAR THERAPY*
Curran, M. A., Kaiser, S. M., Achacoso, P. L., Nolan, G. P.
2000; 1 (1): 31-38
- **Retroviral and lentiviral gene therapy for autoimmune disease.** *Current directions in autoimmunity*
Smith, R., Nolan, G. P.
2000; 2: 167-188
- **Antiangiogenic gene therapy of murine B16F10 melanoma and L1210 leukemia tumors with angiostatin and endostatin containing MMuLV retroviral vectors.**
Scappaticci, F. A., Smith, R., Schloss, D., Cao, Y., Engleman, E. G., Nolan, G. P., Leung, L.
AMER SOC HEMATOLOGY.1999: 420B-420B
- **NF-kappa B to the rescue - RELs, apoptosis and cellular transformation** *TRENDS IN GENETICS*
Foo, S. Y., Nolan, G. P.
1999; 15 (6): 229-235
- **Identification of RIP3, a RIP-like kinase that activates apoptosis and NF kappa B** *CURRENT BIOLOGY*
Yu, P. W., Huang, B. C., Shen, M., Quast, J., Chan, E., Xu, X., Nolan, G. P., Payan, D. G., Luo, Y.
1999; 9 (10): 539-542
- **Analysis of genomic integrity and p53-dependent G(1) checkpoint in telomerase-induced extended-life-span human fibroblasts** *MOLECULAR AND CELLULAR BIOLOGY*

- Vaziri, H., Squire, J. A., Pandita, T. K., Bradley, G., Kuba, R. M., Zhang, H. H., Gulyas, S., Hill, R. P., Nolan, G. P., Benchimol, S.
1999; 19 (3): 2373-2379
- **Growth inhibition and apoptosis due to restoration of E2A activity in T cell acute lymphoblastic leukemia cells** *JOURNAL OF EXPERIMENTAL MEDICINE*
Park, S. T., Nolan, G. P., Sun, X. H.
1999; 189 (3): 501-508
 - **Single cell analysis and selection of living retrovirus vector-corrected mucopolysaccharidosis VII cells using a fluorescence-activated cell sorting-based assay for mammalian beta-glucuronidase enzymatic activity** *JOURNAL OF BIOLOGICAL CHEMISTRY*
Lorincz, M. C., Parente, M. K., Roederer, M., Nolan, G. P., Diwu, Z. J., Martin, D. I., Herzenberg, L. A., Wolfe, J. H.
1999; 274 (2): 657-665
 - **Generation of retroviral vector for clinical studies using transient transfection** *HUMAN GENE THERAPY*
Yang, S. L., Delgado, R., King, S. R., Woffendin, C., Barker, C. S., Yang, Z. Y., Xu, L., Nolan, G. P., Nabel, G. J.
1999; 10 (1): 123-132
 - **Local delivery of TNF by retrovirus-transduced T lymphocytes exacerbates experimental autoimmune encephalomyelitis** *CLINICAL IMMUNOLOGY*
Dal Canto, R. A., Shaw, M. K., Nolan, G. P., Steinman, L., Fathman, C. G.
1999; 90 (1): 10-14
 - **Evolution of peptides that modulate the spectral qualities of bound, small-molecule fluorophores** *CHEMISTRY & BIOLOGY*
Rozinov, M. N., Nolan, G. P.
1998; 5 (12): 713-728
 - **Host control of HIV-1 parasitism in T cells by the nuclear factor of activated T cells** *CELL*
Kinoshita, S., Chen, B. K., Kaneshima, H., Nolan, G. P.
1998; 95 (5): 595-604
 - **The ICAM-2 alpha-actinin binding site mediates a survival signal**
Lorens, J. B., Hitoshi, Y., Caldwell, J. S., Nolan, G. P.
AMER SOC CELL BIOLOGY.1998: 367A-367A
 - **Expression vectors and delivery systems - Editorial overview** *CURRENT OPINION IN BIOTECHNOLOGY*
Nolan, G. P., Shatzman, A. R.
1998; 9 (5): 447-450
 - **Local delivery of cytokines by retrovirally transduced antigen-specific TCR+ hybridoma cells in experimental autoimmune encephalomyelitis** *Vth International Workshop on Cytokines at the Joint Meeting of the Ares-Sereno Foundation / European-Cytokine-Society*
Dal Canto, R. A., Costa, G., Shaw, M. D., Seroogy, C., Nolan, G. P., Fathman, C. G.
JOHN LIBBEY EUROTEXT LTD.1998: 83-91
 - **Toso, a cell surface, specific regulator of Fas-induced apoptosis in T cells** *IMMUNITY*
Hitoshi, Y., Lorens, J., Kitada, S. I., Fisher, J., Labarge, M., Ring, H. Z., FRANCKE, U., Reed, J. C., Kinoshita, S., Nolan, G. P.
1998; 8 (4): 461-471
 - **Effects of locally delivered cytokines on EAE**
Dal Canto, R. A., Shaw, M. K., Steinman, L., Nolan, G. P., Fathman, C. G.
FEDERATION AMER SOC EXP BIOL.1998: A308-A308
 - **Cardiac development - Transcription and the broken heart** *NATURE*
Nolan, G. P.
1998; 392 (6672): 129-130
 - **High-efficiency gene transfer and selection of human hematopoietic progenitor cells with a hybrid EBV/retroviral vector expressing the green fluorescence protein** *CANCER RESEARCH*
Grignani, F., Kinsella, T., Mencarelli, A., Valtieri, M., Riganelli, D., Grignani, F., Lanfranccone, L., Peschle, C., Nolan, G. P., Pelicci, P. G.
1998; 58 (1): 14-19
 - **Inhibition of T cell and promotion of natural killer cell development by the dominant negative helix loop helix factor Id3** *JOURNAL OF EXPERIMENTAL MEDICINE*
Heemskerk, M. H., Blom, B., Nolan, G., Stegmann, A. P., Bakker, A. Q., Weijer, K., Res, P. C., Spits, H.

1997; 186 (9): 1597-1602

- **Engineered virus targets HIV-infected cells: interview with Garry Nolan, Ph.D. Interview by John S. James.** *AIDS treatment news*
Nolan, G.
1997: 1-?
- **Harnessing viral devices as pharmaceuticals: Fighting HIV-1's fire with fire** *CELL*
Nolan, G. P.
1997; 90 (5): 821-824
- **Introduction of soluble proteins into the MHC class I pathway by conjugation to an HIV tat peptide** *JOURNAL OF IMMUNOLOGY*
Kim, D. T., Mitchell, D. J., Brockstedt, D. G., Fong, L., Nolan, G. P., Fathman, C. G., Engleman, E. G., Rothbard, J. B.
1997; 159 (4): 1666-1668
- **Local delivery of interleukin 4 by retrovirus-transduced T lymphocytes ameliorates experimental autoimmune encephalomyelitis** *JOURNAL OF EXPERIMENTAL MEDICINE*
Shaw, M. K., Lorens, J. B., Dhawan, A., DalCanto, R., Tse, H. Y., Tran, A. B., Bonpane, C., Eswaran, S. L., Brocke, S., Sarvetnick, N., Steinman, L., Nolan, G. P., Fathman, et al
1997; 185 (9): 1711-1714
- **The T cell activation factor NF-ATc positively regulates HIV-1 replication and gene expression in T cells** *IMMUNITY*
Kinoshita, S., Su, L. S., Amano, M., Timmerman, L. A., Kaneshima, H., Nolan, G. P.
1997; 6 (3): 235-244
- **Local delivery of interleukin-4 by retrovirus-transduced lymphocytes ameliorates experimental autoimmune encephalomyelitis.**
Shaw, M. K., Lorens, J. B., Dhawan, A., DalCanto, R., Tse, H. Y., Tran, A. B., Bonpane, C., Eswaran, S. L., Brocke, S., Sarvetnick, N., Steinman, L., Nolan, G. P., Fathman, et al
MOSBY-ELSEVIER.1997: 1976-76
- **Generation of high-titer, helper-free retroviruses by transient transfection.** *Methods in molecular medicine*
Pear, W. S., Scott, M. L., Nolan, G. P.
1997; 7: 41-57
- **Transport of immunogens into the MHC class I and II pathways by a peptide from HIV tat** *40th Symposium of the Alfred-Benzon-Foundation on HLA and Disease - the Molecular Basis*
Rothbard, J., Kim, D., Mitchell, D., Bockstedt, D., Fong, L., Nolan, G., Fathman, C. G., Engleman, E.
MUNKSGAARD.1997: 161-175
- **Transglutaminase 1 delivery to lamellar ichthyosis keratinocytes** *HUMAN GENE THERAPY*
Choate, K. A., Kinsella, T. M., WILLIAMS, M. L., Nolan, G. P., Khavari, P. A.
1996; 7 (18): 2247-2253
- **NF-kappa B homodimer binding within the HIV-1 initiator region and interactions with TFII-I** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Montano, M. A., Kripke, K., Norina, C. D., Achacoso, P., Herzenberg, L. A., Roy, A. L., Nolan, G. P.
1996; 93 (22): 12376-12381
- **Identification of an oncogenic form of the thrombopoietin receptor MPL using retrovirus-mediated gene transfer** *BLOOD*
Onishi, M., Mui, A. L., Morikawa, Y., Cho, L., Kinoshita, S., Nolan, G. P., Gorman, D. M., Miyajima, A., Kitamura, T.
1996; 88 (4): 1399-1406
- **Simultaneous fluorescence-activated cell sorter analysis of two distinct transcriptional elements within a single cell using engineered green fluorescent proteins** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Anderson, M. T., Tjioe, I. M., Lorincz, M. C., Parks, D. R., Herzenberg, L. A., Nolan, G. P., Herzenberg, L. A.
1996; 93 (16): 8508-8511
- **Episomal vectors rapidly and stably produce high-titer recombinant retrovirus** *HUMAN GENE THERAPY*
Kinsella, T. M., Nolan, G. P.
1996; 7 (12): 1405-1413
- **Enzyme-generated intracellular fluorescence for single-cell reporter gene analysis utilizing Escherichia coli beta-glucuronidase** *CYTOMETRY*

- Lorincz, M., Roederer, M., Diwu, Z., Herzenberg, L. A., Nolan, G. P.
1996; 24 (4): 321-329
- **Rapid retroviral delivery of tetracycline-inducible genes in a single autoregulatory cassette** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Hofmann, A., Nolan, G. P., Blau, H. M.
1996; 93 (11): 5185-5190
 - **Applications of retrovirus-mediated expression cloning** *1995 Annual Meeting of the ISEH*
Onishi, M., Kinoshita, S., Morikawa, Y., Shibuya, A., Phillips, J., Lanier, L. L., Gorman, D. M., Nolan, G. P., Miyajima, A., Kitamura, T.
ELSEVIER SCIENCE INC.1996: 324-29
 - **EFFICIENT SCREENING OF RETROVIRAL CDNA EXPRESSION LIBRARIES** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Kitamura, T., Onishi, M., Kinoshita, S., Shibuya, A., Miyajima, A., Nolan, G. P.
1995; 92 (20): 9146-9150
 - **EXPANDED ROLES FOR REL PROTEINS AT THE INITIATOR AND ENHANCER OF HIV-1**
Nolan, G. P., Kinoshita, S., Achacoso, P., Roy, A., Montano, M.
MARY ANN LIEBERT INC.1995: S114-S114
 - **ACTIVATION OF THE TRANSCRIPTION FACTOR NF-KB IN GH(3) PITUITARY-CELLS** *MOLECULAR AND CELLULAR ENDOCRINOLOGY*
Grandison, L., Nolan, G. P., Pfaff, D. W.
1994; 106 (1-2): 9-15
 - **GENE-TRANSFER INTO HIGHLY-PURIFIED CD34+THY-1+LIN-HUMAN PERIPHERAL-BLOOD HEMATOPOIETIC STEM-CELLS**
Kerr, W., Fraser, C., Chen, B., Kaneshima, H., Hoffman, R., Lorens, J., Caldwell, J., Nolan, G., Cohen, L., Mulligan, R. C., Mule, J.
AMER SOC HEMATOLOGY.1994: A402-A402
 - **NF-AT-AP-1 AND REL-BZIP - HYBRID VIGOR AND BINDING UNDER THE INFLUENCE** *CELL*
Nolan, G. P.
1994; 77 (6): 795-798
 - **NF-AT COMPONENTS DEFINE A FAMILY OF TRANSCRIPTION FACTORS TARGETED IN T-CELL ACTIVATION** *NATURE*
Northrop, J. P., Ho, S. N., Chen, L., Thomas, D. J., Timmerman, L. A., Nolan, G. P., Admon, A., Crabtree, G. R.
1994; 369 (6480): 497-502
 - **PRODUCTION OF HIGH-TITER HELPER-FREE RETROVIRUSES BY TRANSIENT TRANSFECTION** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Pear, W. S., Nolan, G. P., Scott, M. L., Baltimore, D.
1993; 90 (18): 8392-8396
 - **THE P65-SUBUNIT OF NF-KAPPA-B REGULATES I-KAPPA-B BY 2 DISTINCT MECHANISMS** *GENES & DEVELOPMENT*
Scott, M. L., Fujita, T., Liou, H. C., Nolan, G. P., Baltimore, D.
1993; 7 (7A): 1266-1276
 - **THE CANDIDATE PROTOONCOGENE BCL-3 ENCODES A TRANSCRIPTIONAL COACTIVATOR THAT ACTIVATES THROUGH NF-KAPPA-B P50 HOMODIMERS** *GENES & DEVELOPMENT*
Fujita, T., Nolan, G. P., Liou, H. C., Scott, M. L., Baltimore, D.
1993; 7 (7B): 1354-1363
 - **THE BCL-3 PROTOONCOGENE ENCODES A NUCLEAR I-KAPPA-B-LIKE MOLECULE THAT PREFERENTIALLY INTERACTS WITH NF-KAPPA-B P50 AND P52 IN A PHOSPHORYLATION-DEPENDENT MANNER** *MOLECULAR AND CELLULAR BIOLOGY*
Nolan, G. P., Fujita, T., Bhatia, K., HUPPI, C., Liou, H. C., Scott, M. L., Baltimore, D.
1993; 13 (6): 3557-3566
 - **THE NF-KAPPA-B P50 PRECURSOR, P105, CONTAINS AN INTERNAL I-KAPPA-B-LIKE INHIBITOR THAT PREFERENTIALLY INHIBITS P50** *EMBO JOURNAL*
Liou, H. C., Nolan, G. P., Ghosh, S., Fujita, T., Baltimore, D.
1992; 11 (8): 3003-3009

- **INDEPENDENT MODES OF TRANSCRIPTIONAL ACTIVATION BY THE P50-SUBUNIT AND P65-SUBUNIT OF NF-KAPPA-B GENES & DEVELOPMENT**
Fujita, T., Nolan, G. P., Ghosh, S., Baltimore, D.
1992; 6 (5): 775-787
- **The inhibitory ankyrin and activator Rel proteins.** *Current opinion in genetics & development*
Nolan, G. P., Baltimore, D.
1992; 2 (2): 211-220
- **DNA-BINDING AND I-KAPPA-B INHIBITION OF THE CLONED P65 SUBUNIT OF NF-KAPPA-B, A REL-RELATED POLYPEPTIDE** *CELL*
Nolan, G. P., Ghosh, S., Liou, H. C., Tempst, P., Baltimore, D.
1991; 64 (5): 961-969
- **WHOLE ANIMAL-CELL SORTING OF DROSOPHILA EMBRYOS** *SCIENCE*
Krasnow, M. A., Cumberledge, S., Manning, G., Herzenberg, L. A., Nolan, G. P.
1991; 251 (4989): 81-85
- **Use of Escherichiu coli (E. coli) lacZ (B-Galactosidase) as a Reporter Gene.** *Methods in molecular biology (Clifton, N.J.)*
Macgregor, G. R., Nolan, G. P., Fiering, S., Roederer, M., Herzenberg, L. A.
1991; 7: 217-235
- **IMPROVED FACS-GAL - FLOW CYTOMETRIC ANALYSIS AND SORTING OF VIABLE EUKARYOTIC CELLS EXPRESSING REPORTER GENE CONSTRUCTS** *CYTOMETRY*
Fiering, S. N., Roederer, M., Nolan, G. P., Micklem, D. R., Parks, D. R., Herzenberg, L. A.
1991; 12 (4): 291-301
- **INSITU DETECTION OF STAGE-SPECIFIC GENES AND ENHANCERS IN B-CELL DIFFERENTIATION VIA GENE-SEARCH RETROVIRUSES** *3RD INTERNATIONAL CONF ON LYMPHOCYTE ACTIVATION IMMUNE REGULATION*
Kerr, W. G., Nolan, G. P., JOHNSEN, J. B., Herzenberg, L. A.
PLENUM PRESS DIV PLENUM PUBLISHING CORP.1991: 187-200
- **SINGLE CELL ASSAY OF A TRANSCRIPTION FACTOR REVEALS A THRESHOLD IN TRANSCRIPTION ACTIVATED BY SIGNALS EMANATING FROM THE T-CELL ANTIGEN RECEPTOR** *GENES & DEVELOPMENT*
Fiering, S., Northrop, J. P., Nolan, G. P., Mattila, P. S., Crabtree, G. R., Herzenberg, L. A.
1990; 4 (10): 1823-1834
- **CLONING OF THE P50 DNA-BINDING SUBUNIT OF NF-KAPPA-B - HOMOLGY TO REL AND DORSAL** *CELL*
Ghosh, S., Gifford, A. M., RIVIERE, L. R., Tempst, P., Nolan, G. P., Baltimore, D.
1990; 62 (5): 1019-1029
- **A NOVEL FLUORESCENCE-BASED SYSTEM FOR ASSAYING AND SEPARATING LIVE CELLS ACCORDING TO VDJ RECOMBINASE ACTIVITY** *MOLECULAR AND CELLULAR BIOLOGY*
Yancopoulos, G. D., Nolan, G. P., Pollock, R., Prockop, S., LI, S. C., Herzenberg, L. A., Alt, F. W.
1990; 10 (4): 1697-1704
- **INSITU DETECTION OF TRANSCRIPTIONALLY ACTIVE CHROMATIN AND GENETIC REGULATORY ELEMENTS IN INDIVIDUAL VIABLE MAMMALIAN-CELLS** *IMMUNOLOGY*
Kerr, W. G., Nolan, G. P., Herzenberg, L. A.
1989: 74-79
- **TRANSCRIPTIONALLY DEFECTIVE RETROVIRUSES CONTAINING LACZ FOR THE INSITU DETECTION OF ENDOGENOUS GENES AND DEVELOPMENTALLY REGULATED CHROMATIN** *3RD SYMP ON IMMUNOLOGICAL RECOGNITION*
Kerr, W. G., Nolan, G. P., SERAFINI, A. T., Herzenberg, L. A.
COLD SPRING HARBOR LABORATORY PRESS.1989: 767-776
- **TRANSCRIPTIONALLY DEFECTIVE RETROVIRUSES CONTAINING LACZ FOR THE INSITU DETECTION OF ENDOGENOUS GENES AND DEVELOPMENTALLY REGULATED CHROMATIN** *COLD SPRING HARBOR SYMPOSIA ON QUANTITATIVE BIOLOGY*
Kerr, W. G., Nolan, G. P., SERAFINI, A. T., Herzenberg, L. A.
1989; 54: 767-776

- **FLUORESCENCE-ACTIVATED CELL ANALYSIS AND SORTING OF VIABLE MAMMALIAN-CELLS BASED ON BETA-D-GALACTOSIDASE ACTIVITY AFTER TRANSDUCTION OF ESCHERICHIA-COLI LACZ** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Nolan, G. P., Fiering, S., Nicolas, J. F., Herzenberg, L. A.
1988; 85 (8): 2603-2607
- **ISOLATION AND CHARACTERIZATION OF THE GENE FOR THE MURINE T-CELL DIFFERENTIATION ANTIGEN AND IMMUNOGLOBULIN-RELATED MOLECULE, LYT-2** *NUCLEIC ACIDS RESEARCH*
Nakauchi, H., Tagawa, M., Nolan, G. P., Herzenberg, L. A.
1987; 15 (10): 4337-4347
- **FORMAL PROOF THAT DIFFERENT-SIZE LYT-2 POLYPEPTIDES ARISE FROM DIFFERENTIAL SPLICING AND POSTTRANSCRIPTIONAL REGULATION** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Tagawa, M., Nakauchi, H., Herzenberg, L. A., Nolan, G. P.
1986; 83 (10): 3422-3426
- **MOLECULAR-CLONING OF LYT-2, A MEMBRANE GLYCOPROTEIN MARKING A SUBSET OF MOUSE LYMPHOCYTES-T - MOLECULAR HOMOLOGY TO ITS HUMAN COUNTERPART, LEU-2/T8, AND TO IMMUNOGLOBULIN VARIABLE REGIONS** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Nakauchi, H., Nolan, G. P., Hsu, C., Huang, H. S., Kavathas, P., Herzenberg, L. A.
1985; 82 (15): 5126-5130
- **MOLECULAR-WEIGHT DETERMINATION PROGRAM** *NUCLEIC ACIDS RESEARCH*
Maina, C. V., Nolan, G. P., Szalay, A. A.
1984; 12 (1): 695-702
- **PLASMID MAPPING COMPUTER-PROGRAM** *NUCLEIC ACIDS RESEARCH*
Nolan, G. P., Maina, C. V., Szalay, A. A.
1984; 12 (1): 717-729