



Sean Bendall

Assistant Professor (Research) of Pathology

Bio

ACADEMIC APPOINTMENTS

- Assistant Professor (Research), Pathology
- Member, Bio-X
- Member, Stanford Cancer Institute
- Member, Wu Tsai Neurosciences Institute

HONORS AND AWARDS

- NIH Director's New Innovator Award, National Institutes of Health (2016)
- NIH Pathway to Independence Award, NIH / NIGMS (2013)
- Dale F. Frey Breakthrough Scientist, Damon Runyon Cancer Research Foundation (2012)
- ISAC President's Award of Excellence, International Society for Advancement of Cytometry (2012)
- Fellowship, Canadian Institute of Health Research (CIHR) (2009)
- Fellowship, Damon Runyon Cancer Research Foundation (2009)

PROFESSIONAL EDUCATION

- PhD, University of Western Ontario , Proteomic Analysis of Human Embryonic Stem Cell Culture (2008)
- BSc, University of Victoria (2002)

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Our goal is to understand the mechanisms regulating the development of human systems (both embryonic and adult). In particular, we are interested in clarifying the roles of both protein coding genes as well as pathobiology (disease state or pathogen) known to be uniquely human – therefore, not analogously studied in model organisms. Drawing on both pluripotent stem cell biology, hematopoiesis, and immunology, combined with novel high-content single-cell analysis (CyTOF – Mass Cytometry) and imaging (MIBI-Multiplexed Ion Beam Imaging) we are creating templates of ‘normal’ human cellular behavior. Using these we can decipher the roles of protein regulators on cellular specification as well as the influence of human-specific pathobiology on system remodeling at the single cell level. This work will enable a better understanding of how disease corrupts this process. Ultimately, our objective will be to use such approaches to not only reveal how novel regulators function in the context of complex cellular systems, but also enable the mechanistic characterization of human pathobiology in primary human tissues. In doing so we will understand how changes in related physiological or pathological systems can be more readily recognized and controlled.

In addition to the lab's work on human hematopoiesis and pluripotent stem cell specification we are seeking collaborative partnerships surrounding problems in human immunology as well as in regenerative medicine, including efforts to exploit next generation single-cell analysis and new computational methods to create systems level models of these processes so that they may be better understood and directed.

Teaching

COURSES

2018-19

- Cellular and Clinical Aspects of Cancer: CBIO 242 (Spr)

2017-18

- Cellular and Clinical Aspects of Cancer: CBIO 242 (Spr)

STANFORD ADVISEES

Doctoral Dissertation Reader (AC)

Michelle Atallah, Sarah Barnes, James Harden, Maggie Martins

Postdoctoral Faculty Sponsor

Felix Hartmann, Dunja Mrdjen, JP Oliveria

Doctoral Dissertation Advisor (AC)

Ariel Calderon, Bryan Cannon, David Glass, Sam Kimmey

Doctoral Dissertation Co-Advisor (AC)

Nora Vivanco Gonzalez

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Immunology (Phd Program)

Publications

PUBLICATIONS

- **Parallel analysis of tri-molecular biosynthesis with cell identity and function in single cells.** *Nature communications*
Kimmey, S. C., Borges, L., Baskar, R., Bendall, S. C.
2019; 10 (1): 1185
- **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
- **A Structured Tumor-Immune Microenvironment in Triple Negative Breast Cancer Revealed by Multiplexed Ion Beam Imaging.** *Cell*
Keren, L., Bosse, M., Marquez, D., Angoshtari, R., Jain, S., Varma, S., Yang, S., Kurian, A., Van Valen, D., West, R., Bendall, S. C., Angelo, M.
2018; 174 (6): 1373
- **A Universal Live Cell Barcoding-Platform for Multiplexed Human Single Cell Analysis.** *Scientific reports*
Hartmann, F. J., Simonds, E. F., Bendall, S. C.
2018; 8 (1): 10770
- **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., Aghaepour, 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
- **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
- **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
 - **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
 - **Multi-target drug combinations from single drug responses measured at the level of single cells using Mixture Nested Effects Models (MNEMs) applied to cancer.** *Special Conference on Computational and Systems Biology of Cancer*
Anchang, B., Fienberg, H., et al
 - **An Immune Atlas of Mid to Late Mouse Gestation.**
Moore, A. R., Vivanco-Gonzalez, N., Plummer, K., Kaur, H., Mitchel, O., Rivera, M., Bendall, S. C., Palmer, T. D.
SAGE PUBLICATIONS INC.2019: 345A–346A
 - **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
 - **Comprehensive characterization of human decidual immune cells involvement in spiral artery remodelling**
Greenbaum, S., Rizzuto, G., Bosse, M., Keren, L., Kowk, S., van de Rijn, M., Bendall, S., Angelo, M.
MOSBY-ELSEVIER.2019: S27–S28
 - **Serial transplantation reveals a critical role for endoglin in hematopoietic stem cell quiescence.** *Blood*
Borges, L., Oliveira, V. K., Baik, J., Bendall, S., Perlingeiro, R. C.
2018
 - **Mass synaptometry: High-dimensional multi parametric assay for single synapses.** *Journal of neuroscience methods*
Gajera, C. R., Fernandez, R., Postupna, N., Montine, K. S., Fox, E. J., Tebaykin, D., Angelo, M., Bendall, S. C., Keene, C. D., Montine, T. J.
2018
 - **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
 - **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
 - **Ibrutinib-Mediated Inhibition of cGVHD Pathogenic Pre-Germinal Center B-Cells and Follicular Helper Cells While Preserving Immune Memory and Thi T-Cells**
Sahaf, B., Tebaykin, D., Hopper, M., Cheung, P., Bittencourt, F., Cutler, C., Arora, M., Waller, E. K., Jagasia, M., Pusic, I., Flowers, M. E., Logan, A. C., Jaglowski, et al
ELSEVIER SCIENCE INC.2018: S20–S21
 - **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

- **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
- **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-?
- **Assessing basophil activation by using flow cytometry and mass cytometry in blood stored 24 hours before analysis** *JOURNAL OF ALLERGY AND CLINICAL IMMUNOLOGY*
Mukai, K., Gaudenzio, N., Gupta, S., Vivanco, N., Bendall, S. C., Maecker, H. T., Chinthrajah, R. S., Tsai, M., Nadeau, K. C., Galli, S. J.
2017; 139 (3): 889-?
- **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
- **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
- **Assessing basophil activation by using flow cytometry and mass cytometry in blood stored 24 hours before analysis.** *journal of allergy and clinical immunology*
Mukai, K., Gaudenzio, N., Gupta, S., Vivanco, N., Bendall, S. C., Maecker, H. T., Chinthrajah, R. S., Tsai, M., Nadeau, K. C., Galli, S. J.
2016
- **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
- **Wishbone identifies bifurcating developmental trajectories from single-cell data** *NATURE BIOTECHNOLOGY*
Setty, M., Tadmor, M. D., Reich-Zeliger, S., Ange, O., Salame, T. M., Kathail, P., Choi, K., Bendall, S., Friedman, N., Pe'er, D.
2016; 34 (6): 637-645
- **SESSION INTRODUCTION.** *Pacific Symposium on Biocomputing. Pacific Symposium on Biocomputing*
Samusik, N., Aghaeepour, N., Bendall, S.
2016; 22: 557-563
- **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
- **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
- **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)
 - **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-?
 - **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
 - **The Split Virus Influenza Vaccine rapidly activates immune cells through Fc gamma receptors** *VACCINE*
O'Gorman, W. E., Huang, H., Wei, Y., Davis, K. L., Leipold, M. D., Bendall, S. C., Kidd, B. A., Dekker, C. L., Maecker, H. T., Chien, Y., Davis, M. M.
2014; 32 (45): 5989-5997
 - **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
 - **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
 - **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
 - **The transcriptional landscape of a β 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
- **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
 - **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
 - **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
 - **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
 - **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
 - **From single cells to deep phenotypes in cancer** *NATURE BIOTECHNOLOGY*
Bendall, S. C., Nolan, G. P.
2012; 30 (7): 639-647
 - **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
 - **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
 - **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
 - **Clonal tracking of hESCs reveals differential contribution to functional assays** *NATURE METHODS*
Stewart, M. H., Bendall, S. C., Levadoux-Martin, M., Bhatia, M.
2010; 7 (11): 917-U75
 - **A HUPO test sample study reveals common problems in mass spectrometry-based proteomics** *NATURE METHODS*
Bell, A. W., Deutsch, E. W., Au, C. E., Kearney, R. E., Beavis, R., Sechi, S., Nilsson, T., Bergeron, J. J.
2009; 6 (6): 423-U40
 - **An Enhanced Mass Spectrometry Approach Reveals Human Embryonic Stem Cell Growth Factors in Culture** *MOLECULAR & CELLULAR PROTEOMICS*
Bendall, S. C., Hughes, C., Campbell, J. L., Stewart, M. H., Pittock, P., Liu, S., Bonnell, E., Thibault, P., Bhatia, M., Lajoie, G. A.
2009; 8 (3): 421-432
 - **Prevention of amino acid conversion in SILAC experiments with embryonic stem cells** *MOLECULAR & CELLULAR PROTEOMICS*
Bendall, S. C., Hughes, C., Stewart, M. H., Doble, B., Bhatia, M., Lajoie, G. A.
2008; 7 (9): 1587-1597
 - **Deconstructing human embryonic stem cell cultures: niche regulation of self-renewal and pluripotency** *JOURNAL OF MOLECULAR MEDICINE-JMM*
Stewart, M. H., Bendall, S. C., Bhatia, M.
2008; 86 (8): 875-886

- **Human embryonic stem cells: lessons from stem cell niches in vivo** *REGENERATIVE MEDICINE*
Bendall, S. C., Stewart, M. H., Bhatia, M.
2008; 3 (3): 365-376
- **IGF and FGF cooperatively establish the regulatory stem cell niche of pluripotent human cells in vitro** *NATURE*
Bendall, S. C., Stewart, M. H., Menendez, P., George, D., Vijayaragavan, K., Werbowetski-Ogilvie, T., Ramos-Mejia, V., Rouleau, A., Yang, J., Bosse, M., Lajoie, G., Bhatia, M.
2007; 448 (7157): 1015-U3
- **Proteomic analysis of pluripotent stem cells.** *Current protocols in stem cell biology*
Bendall, S. C., Booy, A. T., Lajoie, G.
2007; Chapter 1: Unit 1B 1-?
- **Clonal isolation of hESCs reveals heterogeneity within the pluripotent stem cell compartment** *NATURE METHODS*
Stewart, M. H., Bosse, M., Chadwick, K., Menendez, P., Bendall, S. C., Bhatia, M.
2006; 3 (10): 807-815
- **Complement targeting of nonhuman sialic acid does not mediate cell death of human embryonic stem cells** *NATURE MEDICINE*
Cerdan, C., Bendall, S. C., Wang, L., Stewart, M., Werbowetski, T., Bhatia, M.
2006; 12 (10): 1113-1114