



## Ansuman Satpathy

Assistant Professor of Pathology

 Curriculum Vitae available Online

### CONTACT INFORMATION

- **Alternate Contact**

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### Bio

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#### BIO

Dr. Ansuman Satpathy M.D., Ph.D. is an Assistant Professor in the Department of Pathology at Stanford University School of Medicine. He is a member of the Stanford Cancer Institute, the Parker Institute for Cancer Immunotherapy, the Immunology, Cancer Biology, and Biomedical Informatics Programs, Bio-X, and a faculty fellow in ChEM-H. Dr. Satpathy completed an M.D. and Ph.D. in immunology at Washington University in St. Louis, clinical residency in pathology at Stanford Hospital and Clinics, and postdoctoral training in genetics at Stanford University. Dr. Satpathy's research group focuses on developing and applying genome-scale technologies to study fundamental properties of the immune system in health, infection, and cancer.

#### ACADEMIC APPOINTMENTS

- Assistant Professor, Pathology
- Member, Bio-X
- Member, Maternal & Child Health Research Institute (MCHRI)
- Member, Stanford Cancer Institute
- Faculty Fellow, Stanford ChEM-H
- Member, Wu Tsai Neurosciences Institute

#### ADMINISTRATIVE APPOINTMENTS

- Member, Parker Institute for Cancer Immunotherapy, (2019- present)

#### HONORS AND AWARDS

- Technology Impact Award, Cancer Research Institute (2019)
- Career Award for Medical Scientists, Burroughs Wellcome Fund (2018)
- Clinical Scientist Career Development Award (K08), National Cancer Institute (2018)
- Innovative Technology Award, Bill and Melinda Gates Foundation (2018)
- Michelson Prize for Human Immunology and Vaccine Research, Michelson Research Foundation (2018)
- Bridge Scholar, Parker Institute for Cancer Immunotherapy (2017)

- Irvington Postdoctoral Fellowship, Cancer Research Institute (2016)
- David M. Kipnis Dissertation Award, Washington University School of Medicine (2013)
- Predoctoral Fellowship, American Heart Association (2012)

## PROFESSIONAL EDUCATION

- Postdoc, Stanford University , Genetics (2018)
- Residency, Stanford Hospital and Clinics , Clinical Pathology (2017)
- Ph.D., Washington University in St. Louis , Immunology (2014)
- M.D., Washington University in St. Louis , Medicine (2014)
- Visiting Scholar, King's College London , Immunology (2005)
- B.A., University of Illinois, Urbana-Champaign , Philosophy (2006)
- B.S., University of Illinois, Urbana-Champaign , Molecular Biology (2006)

## LINKS

- <https://twitter.com/Satpathology>: <https://twitter.com/Satpathology>
- Google Scholar: <https://scholar.google.com/citations?user=KglzeysAAAAJ&hl=en>
- Lab Website: <https://www.satpathylab.com>

## Research & Scholarship

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### CURRENT RESEARCH AND SCHOLARLY INTERESTS

Our lab works at the interface of immunology, cancer biology, and genomics to study cellular and molecular mechanisms of the immune response to cancer.

In particular, we are leveraging high-throughput genomic technologies to understand the dynamics of the tumor-specific T cell response to cancer antigens and immunotherapies (checkpoint blockade, CAR-T cells, and others). We are also interested in understanding the impact of immuno-editing on the heterogeneity and clonal evolution of cancer.

We previously developed genome sequencing technologies that enable epigenetic studies in primary human immune cells from patients: 1) 3D enhancer-promoter interaction profiling (Nat Genet, 2017), 2) paired epigenome and T cell receptor (TCR) profiling in single cells (Nat Med, 2018), 3) paired epigenome and CRISPR profiling in single cells (Cell, 2019), and high-throughput single-cell ATAC-seq in droplets (Nature Biotech, 2019). We used these tools to study fundamental principles of the T cell response to cancer immunotherapy (PD-1 blockade) directly in cancer patient samples (Nature Biotech, 2019; Nat Med, 2019).

## Teaching

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### STANFORD ADVISEES

#### Postdoctoral Faculty Sponsor

Bence Daniel, Katalin Danielne Sandor, Stefanie Meier

#### Doctoral Dissertation Advisor (AC)

Frank Buquicchio, Joy Pai

#### Doctoral (Program)

Julia Belk

### GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Biomedical Informatics (Phd Program)

- Cancer Biology (Phd Program)
- Immunology (Phd Program)

## Publications

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### PUBLICATIONS

- **Massively parallel single-cell chromatin landscapes of human immune cell development and intratumoral T cell exhaustion.** *Nature biotechnology*  
Satpathy, A. T., Granja, J. M., Yost, K. E., Qi, Y., Meschi, F., McDermott, G. P., Olsen, B. N., Mumbach, M. R., Pierce, S. E., Corces, M. R., Shah, P., Bell, J. C., Jhutti, et al  
2019; 37 (8): 925–36
- **Clonal replacement of tumor-specific T cells following PD-1 blockade.** *Nature medicine*  
Yost, K. E., Satpathy, A. T., Wells, D. K., Qi, Y., Wang, C., Kageyama, R., McNamara, K. L., Granja, J. M., Sarin, K. Y., Brown, R. A., Gupta, R. K., Curtis, C., Bucktrout, et al  
2019
- **Coupled Single-Cell CRISPR Screening and Epigenomic Profiling Reveals Causal Gene Regulatory Networks.** *Cell*  
Rubin, A. J., Parker, K. R., Satpathy, A. T., Qi, Y., Wu, B., Ong, A. J., Mumbach, M. R., Ji, A. L., Kim, D. S., Cho, S. W., Zarnegar, B. J., Greenleaf, W. J., Chang, et al  
2018
- **Transcript-indexed ATAC-seq for precision immune profiling.** *Nature medicine*  
Satpathy, A. T., Saligrama, N., Buenrostro, J. D., Wei, Y., Wu, B., Rubin, A. J., Granja, J. M., Lareau, C. A., Li, R., Qi, Y., Parker, K. R., Mumbach, M. R., Serratelli, et al  
2018
- **Enhancer connectome in primary human cells identifies target genes of disease-associated DNA elements.** *Nature genetics*  
Mumbach, M. R., Satpathy, A. T., Boyle, E. A., Dai, C., Gowen, B. G., Cho, S. W., Nguyen, M. L., Rubin, A. J., Granja, J. M., Kazane, K. R., Wei, Y., Nguyen, T., Greenside, et al  
2017
- **Gene regulation in the immune system by long noncoding RNAs.** *Nature immunology*  
Chen, Y. G., Satpathy, A. T., Chang, H. Y.  
2017; 18 (9): 962–72
- **Long Noncoding RNA in Hematopoiesis and Immunity** *IMMUNITY*  
Satpathy, A. T., Chang, H. Y.  
2015; 42 (5): 792-804
- **Runx1 and Cbf beta regulate the development of Flt3(+) dendritic cell progenitors and restrict myeloproliferative disorder** *BLOOD*  
Satpathy, A. T., Briseno, C. G., Cai, X., Michael, D. G., Chou, C., Hsiung, S., Bhattacharya, D., Speck, N. A., Egawa, T.  
2014; 123 (19): 2968-2977
- **L-Myc expression by dendritic cells is required for optimal T-cell priming** *NATURE*  
Wumesh, K. C., Satpathy, A. T., Rapaport, A. S., Briseno, C. G., Wu, X., Albring, J. C., Russler-Germain, E. V., Kretzer, N. M., Durai, V., Persaud, S. P., Edelson, B. T., Loschko, J., Cella, et al  
2014; 507 (7491): 243-?
- **Notch2-dependent classical dendritic cells orchestrate intestinal immunity to attaching-and-effacing bacterial pathogens** *NATURE IMMUNOLOGY*  
Satpathy, A. T., Briseno, C. G., Lee, J. S., Ng, D., Manieri, N. A., Wumesh, K. C., Wu, X., Thomas, S. R., Lee, W., Turkoz, M., McDonald, K. G., Meredith, M. M., Song, et al  
2013; 14 (9): 937-?
- **Re(de)fining the dendritic cell lineage** *NATURE IMMUNOLOGY*  
Satpathy, A. T., Wu, X., Albring, J. C., Murphy, K. M.  
2012; 13 (12): 1145-1154
- **Zbtb46 expression distinguishes classical dendritic cells and their committed progenitors from other immune lineages** *JOURNAL OF EXPERIMENTAL MEDICINE*

- Satpathy, A. T., Wumesh, K. C., Albring, J. C., Edelson, B. T., Kretzer, N. M., Bhattacharya, D., Murphy, T. L., Murphy, K. M.  
2012; 209 (6): 1135-1152
- **CRISPR-engineered T cells in patients with refractory cancer.** *Science (New York, N.Y.)*  
Stadtmauer, E. A., Fraietta, J. A., Davis, M. M., Cohen, A. D., Weber, K. L., Lancaster, E., Mangan, P. A., Kulikovskaya, I., Gupta, M., Chen, F., Tian, L., Gonzalez, V. E., Xu, et al  
2020
  - **First-in-Human Assessment of Feasibility and Safety of Multiplexed Genetic Engineering of Autologous T Cells Expressing NY-ESO -1 TCR and CRISPR/Cas9 Gene Edited to Eliminate Endogenous TCR and PD-1 (NYCE T cells) in Advanced Multiple Myeloma (MM) and Sarcoma.** *Blood*  
Stadtmauer, E. A., Cohen, A. D., Weber, K., Lacey, S. F., Gonzalez, V. E., Melenhorst, J. J., Fraietta, J. A., Plesa, G., Shea, J., Matlawski, T., Cervini, A., Mangan, P., Gaymon, et al  
2019; 134 (Supplement\_1): 49
  - **HiChIRP reveals RNA-associated chromosome conformation.** *Nature methods*  
Mumbach, M. R., Granja, J. M., Flynn, R. A., Roake, C. M., Satpathy, A. T., Rubin, A. J., Qi, Y., Jiang, Z., Shams, S., Louie, B. H., Guo, J. K., Gennert, D. G., Corces, et al  
2019
  - **A Subset of Type I Conventional Dendritic Cells Controls Cutaneous Bacterial Infections through VEGF $\alpha$ -Mediated Recruitment of Neutrophils.** *Immunity*  
Janela, B., Patel, A. A., Lau, M. C., Goh, C. C., Msallam, R., Kong, W. T., Fehlings, M., Hubert, S., Lum, J., Simoni, Y., Malleret, B., Zolezzi, F., Chen, et al  
2019; 50 (4): 1069
  - **A Subset of Type I Conventional Dendritic Cells Controls Cutaneous Bacterial Infections through VEGF  $\alpha$ -Mediated Recruitment of Neutrophils** *IMMUNITY*  
Janela, B., Patel, A. A., Lau, M., Goh, C., Msallam, R., Kong, W., Fehlings, M., Hubert, S., Lum, J., Simoni, Y., Malleret, B., Zolezzi, F., Chen, et al  
2019; 50 (4): 1069–83
  - **Interrogation of human hematopoiesis at single-cell and single-variant resolution.** *Nature genetics*  
Ulirsch, J. C., Lareau, C. A., Bao, E. L., Ludwig, L. S., Guo, M. H., Benner, C., Satpathy, A. T., Kartha, V. K., Salem, R. M., Hirschhorn, J. N., Finucane, H. K., Aryee, M. J., Buenrostro, et al  
2019
  - **Tracking the immune response with single-cell genomics.** *Vaccine*  
Yost, K. E., Chang, H. Y., Satpathy, A. T.  
2019
  - **An Nfil3-Zeb2-Id2 pathway imposes Irf8 enhancer switching during cDC1 development.** *Nature immunology*  
Bagadia, P., Huang, X., Liu, T. T., Durai, V., Grajales-Reyes, G. E., Nitschké, M., Modrusan, Z., Granja, J. M., Satpathy, A. T., Briseño, C. G., Gargaro, M., Iwata, A., Kim, et al  
2019
  - **Cryptic activation of an Irf8 enhancer governs cDC1 fate specification.** *Nature immunology*  
Durai, V., Bagadia, P., Granja, J. M., Satpathy, A. T., Kulkarni, D. H., Davidson, J. T., Wu, R., Patel, S. J., Iwata, A., Liu, T. T., Huang, X., Briseño, C. G., Grajales-Reyes, et al  
2019
  - **A Mutation in the Transcription Factor Foxp3 Drives T Helper 2 Effector Function in Regulatory T Cells.** *Immunity*  
Van Gool, F., Nguyen, M. L., Mumbach, M. R., Satpathy, A. T., Rosenthal, W. L., Giacometti, S., Le, D. T., Liu, W., Brusko, T. M., Anderson, M. S., Rudensky, A. Y., Marson, A., Chang, et al  
2019
  - **GWAS for systemic sclerosis identifies multiple risk loci and highlights fibrotic and vasculopathy pathways.** *Nature communications*  
López-Isac, E., Acosta-Herrera, M., Kerick, M., Assassi, S., Satpathy, A. T., Granja, J., Mumbach, M. R., Beretta, L., Simeón, C. P., Carreira, P., Ortego-Centeno, N., Castellvi, I., Bossini-Castillo, et al  
2019; 10 (1): 4955
  - **c-Jun overexpression in CAR T cells induces exhaustion resistance.** *Nature*  
Lynn, R. C., Weber, E. W., Sotillo, E., Gennert, D., Xu, P., Good, Z., Anbunathan, H., Lattin, J., Jones, R., Tieu, V., Nagaraja, S., Granja, J., de Bourcy, et al  
2019

- **Enhancer connectome nominates target genes of inherited risk variants from inflammatory skin disorders.** *The Journal of investigative dermatology*  
Jeng, M. Y., Mumbach, M. R., Granja, J. M., Satpathy, A. T., Chang, H. Y., Chang, A. L.  
2018
- **Notch2-dependent DC2s mediate splenic germinal center responses.** *Proceedings of the National Academy of Sciences of the United States of America*  
Briseno, C. G., Satpathy, A. T., Davidson, J. T., Ferris, S. T., Durai, V., Bagadia, P., O'Connor, K. W., Theisen, D. J., Murphy, T. L., Murphy, K. M.  
2018
- **Discovery of stimulation-responsive immune enhancers with CRISPR activation (vol 549, pg 111, 2017) NATURE**  
Simeonov, D. R., Gowen, B. G., Boontanrart, M., Roth, T. L., Gagnon, J. D., Mumbach, M. R., Satpathy, A. T., Lee, Y., Bray, N. L., Chan, A. Y., Lituiev, D. S., Nguyen, M. L., Gate, et al  
2018; 559 (7715): E13
- **Integrative analysis of single-cell genomics data by coupled nonnegative matrix factorizations.** *Proceedings of the National Academy of Sciences of the United States of America*  
Duren, Z., Chen, X., Zamanighomi, M., Zeng, W., Satpathy, A. T., Chang, H. Y., Wang, Y., Wong, W. H.  
2018
- **Engineering API 1 to combat CAR T cell exhaustion**  
Lynn, R. C., Weber, E. W., Gennert, D., Sotillo, E., Jones, R., Xu, P., Satpathy, A., Chang, H. Y., Mackall, C. L.  
AMER ASSOC CANCER RESEARCH.2018
- **Dissecting the genetic networks that control regulatory T cell stability using pooled CRISPR screens**  
Cortez, J. T., Shifrut, E., Lee, Y., Mumbach, M. R., Satpathy, A. T., Granja, J., Subramaniam, M., Roth, T., Simeonov, D., Ye, C. J., Chang, H. Y., Van Gool, F., Marson, et al  
AMER ASSOC IMMUNOLOGISTS.2018
- **Foxp3 domain-swap interface is required to suppress T helper type 2 transcriptional program in Regulatory T cells.**  
Van Gool, F., Nguyen, M. L., Mumbach, M. R., Satpathy, A. T., Anderson, M. S., Marson, A., Chang, H. Y., Bluestone, J. A.  
AMER ASSOC IMMUNOLOGISTS.2018
- **Expression of the transcription factor ZBTB46 distinguishes human histiocytic disorders of classical dendritic cell origin.** *Modern pathology : an official journal of the United States and Canadian Academy of Pathology, Inc*  
Satpathy, A. T., Brown, R. A., Gomulia, E., Briseño, C. G., Mumbach, M. R., Pan, Z., Murphy, K. M., Natkunam, Y., Chang, H. Y., Kim, J.  
2018
- **The chromatin accessibility landscape of primary human cancers.** *Science (New York, N.Y.)*  
Corces, M. R., Granja, J. M., Shams, S., Louie, B. H., Seoane, J. A., Zhou, W., Silva, T. C., Groeneveld, C., Wong, C. K., Cho, S. W., Satpathy, A. T., Mumbach, M. R., Hoadley, et al  
2018; 362 (6413)
- **Pembrolizumab for advanced basal cell carcinoma: an investigator-initiated, proof-of-concept study.** *Journal of the American Academy of Dermatology*  
Chang, A. L., Tran, D. C., Cannon, J. G., Li, S., Jeng, M., Patel, R., Van der Bokke, L., Pague, A., Brotherton, R., Rieger, K. E., Satpathy, A. T., Yost, K. E., Reddy, et al  
2018
- **Transforming Growth Factor Beta 3 (TGFB3) - a Novel Systemic Sclerosis Susceptibility Locus Involved in Fibrosis and Th17 Cell Development Identified By Genome-Wide Association Study in African Americans from the Genome Research in African American Scleroderma Patients Consortium**  
Gourh, P., Remmers, E. F., Satpathy, A., Boyden, S., Morgan, N. D., Shah, A. A., Adeyemo, A., Bentley, A., Carns, M. A., Chandrasekharappa, S. C., Chung, L., Criswell, L. A., Derk, et al  
WILEY.2017
- **Cells in Inflamed Islets of Autoimmune Diabetes Mice.** *Journal of immunology*  
Klementowicz, J. E., Mahne, A. E., Spence, A., Nguyen, V., Satpathy, A. T., Murphy, K. M., Tang, Q.  
2017
- **Revisiting the specificity of the MHC class II transactivator CIITA in classical murine dendritic cells in vivo.** *European journal of immunology*  
Anderson, D. A., Grajales-Reyes, G. E., Satpathy, A. T., Hueichucura, C. E., Murphy, T. L., Murphy, K. M.  
2017
- **An improved ATAC-seq protocol reduces background and enables interrogation of frozen tissues.** *Nature methods*

- Corces, M. R., Trevino, A. E., Hamilton, E. G., Greenside, P. G., Sinnott-Armstrong, N. A., Vesuna, S., Satpathy, A. T., Rubin, A. J., Montine, K. S., Wu, B., Kathiria, A., Cho, S. W., Mumbach, et al  
2017
- **Discovery of stimulation-responsive immune enhancers with CRISPR activation.** *Nature*  
Simeonov, D. R., Gowen, B. G., Boontanrart, M., Roth, T. L., Gagnon, J. D., Mumbach, M. R., Satpathy, A. T., Lee, Y., Bray, N. L., Chan, A. Y., Lituiev, D. S., Nguyen, M. L., Gate, et al  
2017
  - **Chromatin Accessibility Landscape of Cutaneous T Cell Lymphoma and Dynamic Response to HDAC Inhibitors.** *Cancer cell*  
Qu, K., Zaba, L. C., Satpathy, A. T., Giresi, P. G., Li, R., Jin, Y., Armstrong, R., Jin, C., Schmitt, N., Rahbar, Z., Ueno, H., Greenleaf, W. J., Kim, et al  
2017
  - **ATAC-se reveals the accessible genome by transposase-mediated imaging and sequencing.** *Nature methods*  
Chen, X., Shen, Y., Draper, W., Buenrostro, J. D., Litzenburger, U., Cho, S. W., Satpathy, A. T., Carter, A. C., Ghosh, R. P., East-Seletsky, A., Doudna, J. A., Greenleaf, W. J., Liphardt, et al  
2016
  - **A Long Noncoding RNA lincRNA-EPS Acts as a Transcriptional Brake to Restrain Inflammation** *CELL*  
Atianand, M. K., Hu, W., Satpathy, A. T., Shen, Y., Ricci, E. P., Alvarez-Dominguez, J. R., Bhatta, A., Schattgen, S. A., McGowan, J. D., Blin, J., Braun, J. E., Gandhi, P., Moore, et al  
2016; 165 (7): 1672-1685
  - **Cellular morphology of BRAF V600E-positive Langerhans cell histiocytosis** *BLOOD*  
Satpathy, A. T., Tan, B. T.  
2015; 126 (15): 1857-1857
  - **Long noncoding RNA in hematopoiesis and immunity.** *Immunity*  
Satpathy, A. T., Chang, H. Y.  
2015; 42 (5): 792-804
  - **Heme-Mediated SPI-C Induction Promotes Monocyte Differentiation into Iron-Recycling Macrophages** *CELL*  
Haldar, M., Kohyama, M., So, A. Y., Wumesh, K. C., Wu, X., Briseno, C. G., Satpathy, A. T., Kretzer, N. M., Arase, H., Rajasekaran, N. S., Wang, L., Egawa, T., Igarashi, et al  
2014; 156 (6): 1223-1234
  - **Embryonic and Adult-Derived Resident Cardiac Macrophages Are Maintained through Distinct Mechanisms at Steady State and during Inflammation** *IMMUNITY*  
Epelman, S., Lavine, K. J., Beaudin, A. E., Sojka, D. K., Carrero, J. A., Calderon, B., Brija, T., Gautier, E. L., Ivanov, S., Satpathy, A. T., Schilling, J. D., Schwendener, R., Sergin, et al  
2014; 40 (1): 91-104
  - **Extrathymic Aire-Expressing Cells Are a Distinct Bone Marrow-Derived Population that Induce Functional Inactivation of CD4(+) T Cells** *IMMUNITY*  
Gardner, J. M., Metzger, T. C., McMahon, E. J., Au-Yeung, B. B., Krawisz, A. K., Lu, W., Price, J. D., Johannes, K. P., Satpathy, A. T., Murphy, K. M., Tarbell, K. V., Weiss, A., Anderson, et al  
2013; 39 (3): 560-572
  - **Bcl11a Controls Flt3 Expression in Early Hematopoietic Progenitors and Is Required for pDC Development In Vivo** *PLOS ONE*  
Wu, X., Satpathy, A. T., Wumesh, K. C., Liu, P., Murphy, T. L., Murphy, K. M.  
2013; 8 (5)
  - **Ly6C(hi) Monocytes in the Inflamed Colon Give Rise to Proinflammatory Effector Cells and Migratory Antigen-Presenting Cells** *IMMUNITY*  
Zigmond, E., Varol, C., Farache, J., Elmaliah, E., Satpathy, A. T., Friedlander, G., Mack, M., Shpigel, N., Boneca, I. G., Murphy, K. M., Shakhari, G., Halpern, Z., Jung, et al  
2012; 37 (6): 1076-1090
  - **Compensatory dendritic cell development mediated by BATF-IRF interactions** *NATURE*  
Tussiwand, R., Lee, W., Murphy, T. L., Mashayekhi, M., Wumesh, K. C., Albring, J. C., Satpathy, A. T., Rotondo, J. A., Edelson, B. T., Kretzer, N. M., Wu, X., Weiss, L. A., Glasmacher, et al  
2012; 490 (7421): 502-?

- **Cross-dressed CD8 alpha(+)/CD103(+) dendritic cells prime CD8(+) T cells following vaccination** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*  
Li, L., Kim, S., Herndon, J. M., Goedegebuure, P., Belt, B. A., Satpathy, A. T., Fleming, T. P., Hansen, T. H., Murphy, K. M., Gillanders, W. E.  
2012; 109 (31): 12716-12721
- **Dual actions of Meis1 inhibit erythroid progenitor development and sustain general hematopoietic cell proliferation** *BLOOD*  
Cai, M., Langer, E. M., Gill, J. G., Satpathy, A. T., Albring, J. C., Wumesh, K. C., Murphy, T. L., Murphy, K. M.  
2012; 120 (2): 335-346
- **IRF-8 extinguishes neutrophil production and promotes dendritic cell lineage commitment in both myeloid and lymphoid mouse progenitors** *BLOOD*  
Becker, A. M., Michael, D. G., Satpathy, A. T., Sciammas, R., Singh, H., Bhattacharya, D.  
2012; 119 (9): 2003-2012
- **Transcription factor networks in dendritic cell development** *SEMINARS IN IMMUNOLOGY*  
Satpathy, A. T., Murphy, K. M., Wumesh, K. C.  
2011; 23 (5): 388-397
- **Targeting of B and T lymphocyte associated (BTLA) prevents graft-versus-host disease without global immunosuppression** *JOURNAL OF EXPERIMENTAL MEDICINE*  
Albring, J. C., Sandau, M. M., Rapaport, A. S., Edelson, B. T., Satpathy, A., Mashayekhi, M., Lathrop, S. K., Hsieh, C., Stelljes, M., Colonna, M., Murphy, T. L., Murphy, K. M.  
2010; 207 (12): 2551-2559
- **Commercially Available Outbred Mice for Genome-Wide Association Studies** *PLOS GENETICS*  
Yalcin, B., Nicod, J., Bhomra, A., Davidson, S., Cleak, J., Farinelli, L., Osteras, M., Whitley, A., Yuan, W., Gan, X., Goodson, M., Klenerman, P., Satpathy, et al  
2010; 6 (9)
- **Enhanced thymic selection of FoxP3(+) regulatory T cells in the NOD mouse model of autoimmune diabetes** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*  
Feuerer, M., Jiang, W., Holler, P. D., Satpathy, A., Campbell, C., Bogue, M., Mathis, D., Benoist, C.  
2007; 104 (46): 18181-18186
- **Cytokines in type 2 diabetes** *INTERLEUKINS*  
Johnson, D. R., O'Connor, J. C., Satpathy, A., Freund, G. G.  
2006; 74: 405-441
- **IL-1 beta-mediated innate immunity is amplified in the db/db mouse model of type 2 diabetes** *JOURNAL OF IMMUNOLOGY*  
O'Connor, J. C., Satpathy, A., Hartman, M. E., Horvath, E. M., Kelley, K. W., Dantzer, R., Johnson, R. W., Freund, G. G.  
2005; 174 (8): 4991-4997