




Edgar Engleman

Professor of Pathology and of Medicine (Immunology and Rheumatology)

 NIH Biosketch available Online

 Curriculum Vitae available Online

CONTACT INFORMATION

• Administrative Contact

Donna Jones - Administrative Associate

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Bio

ACADEMIC APPOINTMENTS

- Professor, Pathology
- Professor, Medicine - Immunology & Rheumatology
- Member, Bio-X
- Member, Maternal & Child Health Research Institute (MCHRI)
- Member, Stanford Cancer Institute
- Member, Wu Tsai Neurosciences Institute

ADMINISTRATIVE APPOINTMENTS

- Co-Director, Tumor Immunology and Immunotherapy, Stanford Cancer Institute, (2008- present)
- Medical Director, Stanford Blood Center, (1980- present)
- Member, Stanford Diabetes Research Center, Stanford, (2018- present)

LINKS

- Engleman lab website: <http://med.stanford.edu/englemanlab.html>

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

We study the biology of immune cells and their roles in the pathogenesis of cancers and other life-threatening diseases. By applying new and more precise analytical tools for assessing this system in mice and humans, we have been successful at identifying disease-promoting immune abnormalities. By targeting the cells responsible for or affected by these abnormalities, we have succeeded in reversing the abnormalities and ameliorating the diseases they cause. These advances would not have been possible without a collaborative research environment in which individuals are encouraged to pursue their own high-risk/high-reward ideas.

We have been particularly interested in the biology and functions of dendritic cells (DC), which are potent antigen presenting cells that can either induce or suppress immunity. Our first generation methods for isolating and arming human DC with tumor antigens provided the basis for the Sipuleucel-T vaccine that was approved by

the FDA in 2010 for the treatment of metastatic prostate cancer. More recently, my lab developed a novel immunotherapeutic strategy that targets tumoral DC in vivo. In addition, we have been using newer technologies, including high dimensional single cell proteomic technology (CyTOF) and deep gene sequencing to investigate the immune system in cancer. Our goal is to identify and understand the key cellular and molecular mechanisms required for tumor elimination. Although we study human tissues in all of our projects, we also make extensive use of mouse models for in depth mechanistic studies.

In addition to cancer, we have been studying the role of immune cells in autoimmune diseases, metabolic diseases, graft versus host disease and transplantation tolerance. Recently, our group has developed novel tools for studying microglia and macrophages in the brain and we have begun to use these tools to analyze the role of these rare immune cells in chronic neurodegenerative disorders such as Alzheimer's Disease, Parkinson's Disease and amyotrophic lateral sclerosis (ALS). Our preliminary findings in mouse models suggest that abnormal metabolism affecting these cells may contribute to the development of these disorders.

Teaching

COURSES

2019-20

- Cellular and Clinical Aspects of Cancer: CBIO 242 (Spr)
- Tumor Immunology: CBIO 275, IMMUNOL 275 (Spr)

2018-19

- Cellular and Clinical Aspects of Cancer: CBIO 242 (Spr)
- Tumor Immunology: CBIO 275, IMMUNOL 275 (Spr)

2017-18

- Cellular and Clinical Aspects of Cancer: CBIO 242 (Spr)
- Tumor Immunology: CBIO 275, IMMUNOL 275 (Aut)

STANFORD ADVISEES

Doctoral Dissertation Reader (AC)

Joshua Eggold, Noah Greenwald, James Harden, Rebecca Leylek, Grant Lin, Amanda Rabe, Luis Soto

Postdoctoral Faculty Sponsor

Sreya Bagchi, David Kung-Chun Chiu, Nichole Escalante, Sameera Kongara, Genay Pilarowski

Doctoral Dissertation Advisor (AC)

Sarah Barnes, Ian Linde, Maggie Martins, Alex Muselman

Doctoral Dissertation Co-Advisor (AC)

Michelle Atallah

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

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

Publications

PUBLICATIONS

- Structure of the IFN gamma receptor complex guides design of biased agonists *NATURE*

- Mendoza, J. L., Escalante, N. K., Jude, K. M., Bellon, J., Su, L., Horton, T. M., Tsutsumi, N., Berardinelli, S. J., Haltiwanger, R. S., Piehler, J., Engleman, E. G., Garcia, K.
2019; 567 (7746): 56-+
- **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
 - **Role of innate and adaptive immunity in obesity-associated metabolic disease** *JOURNAL OF CLINICAL INVESTIGATION*
McLaughlin, T., Ackerman, S. E., Shen, L., Engleman, E.
2017; 127 (1): 5-13
 - **An Immunosuppressive Dendritic Cell Subset Accumulates at Secondary Sites and Promotes Metastasis in Pancreatic Cancer.** *Cancer research*
Kenkel, J. A., Tseng, W. W., Davidson, M. G., Tolentino, L. L., Choi, O., Bhattacharya, N., Seeley, E. S., Winer, D. A., Reticker-Flynn, N. E., Engleman, E. G.
2017; 77 (15): 4158-70
 - **Normalizing Microbiota-Induced Retinoic Acid Deficiency Stimulates Protective CD8(+) T Cell-Mediated Immunity in Colorectal Cancer.** *Immunity*
Bhattacharya, N., Yuan, R., Prestwood, T. R., Penny, H. L., DiMaio, M. A., Reticker-Flynn, N. E., Krois, C. R., Kenkel, J. A., Pham, T. D., Carmi, Y., Tolentino, L., Choi, O., Hulett, et al
2016; 45 (3): 641-655
 - **Normalizing microbiota-induced retinoic acid deficiency stimulates protective CD8+ T-cell-mediated immunity in colorectal cancer** *Immunity*
Bhattacharya, N., Yuan, R., Prestwood, T., Penny, H., DiMaio, M., Reticker-Flynn, N., Krois, C., Kenkel, J., Pham, T., Carmi, Y., Tolentino, L., Choi, O., Hulett, et al
2016; 45: 641-55
 - **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)
 - **Allogeneic IgG combined with dendritic cell stimuli induce antitumour T-cell immunity.** *Nature*
Carmi, Y., Spitzer, M. H., Linde, I. L., Burt, B. M., Prestwood, T. R., Perlman, N., Davidson, M. G., Kenkel, J. A., Segal, E., Pusapati, G. V., Bhattacharya, N., Engleman, E. G.
2015; 521 (7550): 99-104
 - **Allogeneic IgG combined with dendritic cell stimuli induce antitumour T-cell immunity** *NATURE*
Carmi, Y., Spitzer, M. H., Linde, I. L., Burt, B. M., Prestwood, T. R., Perlman, N., Davidson, M. G., Kenkel, J. A., Segal, E., Pusapati, G. V., Bhattacharya, N., Engleman, E. G.
2015; 521 (7550): 99-U254
 - **B-1a lymphocytes attenuate insulin resistance.** *Diabetes*
Shen, L., Chng, M. H., Alonso, M. N., Yuan, R., Winer, D. A., Engleman, E. G.
2015; 64 (2): 593-603
 - **B cells promote insulin resistance through modulation of T cells and production of pathogenic IgG antibodies** *NATURE MEDICINE*
Winer, D. A., Winer, S., Shen, L., Wadia, P. P., Yantha, J., Paltser, G., Tsui, H., Wu, P., Davidson, M. G., Alonso, M. N., Leong, H. X., Glassford, A., Caimol, et al
2011; 17 (5): 610-U134
 - **Using signaling pathways to overcome immune tolerance to tumors.** *Science's STKE : signal transduction knowledge environment*
Engleman, E. G., Brody, J., Soares, L.
2004; 2004 (241): pe28-?
 - **Depletion of host Langerhans cells before transplantation of donor alloreactive T cells prevents skin graft-versus-host disease** *NATURE MEDICINE*
Merad, M., Hoffmann, P., Ranheim, E., Slaymaker, S., Manz, M. G., Lira, S. A., Charo, I., Cook, D. N., Weissman, I. L., Strober, S., Engleman, E. G.
2004; 10 (5): 510-517
 - **Dendritic cells in cancer immunotherapy** *ANNUAL REVIEW OF IMMUNOLOGY*
Fong, L., Engleman, E. G.
2000; 18: 245-273

- **Vaccination of patients with B-cell lymphoma using autologous antigen-pulsed dendritic cells** *NATURE MEDICINE*
Hsu, F. J., Benike, C., Fagnoni, F., Liles, T. M., Czerwinski, D., Taidi, B., Engleman, E. G., Levy, R.
1996; 2 (1): 52-58
- **PREVENTION OF AIDS TRANSMISSION THROUGH SCREENING OF THE BLOOD-SUPPLY** *ANNUAL REVIEW OF IMMUNOLOGY*
Galel, S. A., Lifson, J. D., Engleman, E. G.
1995; 13: 201-227
- **GRANULOCYTE-MACROPHAGE COLONY-STIMULATING FACTOR PROMOTES DIFFERENTIATION AND SURVIVAL OF HUMAN PERIPHERAL-BLOOD DENDRITIC CELLS-INVITRO** *JOURNAL OF CLINICAL INVESTIGATION*
Markowicz, S., Engleman, E. G.
1990; 85 (3): 955-961
- **PH-INDEPENDENT HIV ENTRY INTO CD4-POSITIVE T-CELLS VIA VIRUS ENVELOPE FUSION TO THE PLASMA-MEMBRANE** *CELL*
Stein, B. S., GOWDA, S. D., Lifson, J. D., Penhallow, R. C., Bensch, K. G., Engleman, E. G.
1987; 49 (5): 659-668
- **INDUCTION OF CD4-DEPENDENT CELL-FUSION BY THE HTLV-III/LAV ENVELOPE GLYCOPROTEIN** *NATURE*
Lifson, J. D., Feinberg, M. B., Reyes, G. R., Rabin, L., Banapour, B., Chakrabarti, S., Moss, B., WONGSTAAL, F., Steimer, K. S., Engleman, E. G.
1986; 323 (6090): 725-728
- **AIDS RETROVIRUS INDUCED CYTOPATHOLOGY - GIANT-CELL FORMATION AND INVOLVEMENT OF CD4 ANTIGEN** *SCIENCE*
Lifson, J. D., Reyes, G. R., McGrath, M. S., Stein, B. S., Engleman, E. G.
1986; 232 (4754): 1123-1127
- **Structure of the IFN γ receptor complex guides design of biased agonists.** *Nature*
Mendoza, J. L., Escalante, N. K., Jude, K. M., Sotolongo Bellon, J., Su, L., Horton, T. M., Tsutsumi, N., Berardinelli, S. J., Haltiwanger, R. S., Pichler, J., Engleman, E. G., Garcia, K. C.
2019
- **A gut punch fights cancer and infection** *NATURE*
Reticker-Flynn, N. E., Engleman, E. G.
2019; 565 (7741): 573-74
- **Myeloid sphingosine-1-phosphate receptor 1 is important for CNS autoimmunity and neuroinflammation.** *Journal of autoimmunity*
Tsai, H. C., Nguyen, K., Hashemi, E., Engleman, E., Hla, T., Han, M. H.
2019
- **Insulin Receptor-Mediated Stimulation Boosts T Cell Immunity during Inflammation and Infection** *CELL METABOLISM*
Tsai, S., Clemente-Casares, X., Zhou, A. C., Lei, H., Ahn, J. J., Chan, Y., Choi, O., Luck, H., Woo, M., Dunn, S. E., Engleman, E. G., Watts, T. H., Winer, et al
2018; 28 (6): 922-+
- **Leveraging heterogeneity across multiple datasets increases cell-mixture deconvolution accuracy and reduces biological and technical biases.** *Nature communications*
Vallania, F., Tam, A., Lofgren, S., Schaffert, S., Azad, T. D., Bongen, E., Haynes, W., Alsup, M., Alonso, M., Davis, M., Engleman, E., Khatri, P.
2018; 9 (1): 4735
- **Use of Flow Cytometry for Diagnosis of Epilepsy Associated With Homozygous PIGW Variants.** *Pediatric neurology*
Foskett, G. K., Engleman, E., Klotz, J., Choi, O., Tolentino, L., Kochhar, A., Yang, Q. Z., Stevenson, D. A.
2018
- **Isolation Protocol of Mouse Monocyte-derived Dendritic Cells and Their Subsequent In Vitro Activation with Tumor Immune Complexes** *JOVE-JOURNAL OF VISUALIZED EXPERIMENTS*
Santana-Magal, N., Rasoulouniriana, D., Saperia, C., Gutwillig, A., Rider, P., Engleman, E. G., Carmi, Y.
2018
- **The Interface of Pancreatic Cancer With Diabetes, Obesity, and Inflammation: Research Gaps and Opportunities: Summary of a National Institute of Diabetes and Digestive and Kidney Diseases Workshop** *PANCREAS*
Abbruzzese, J. L., Andersen, D. K., Borrebaeck, C. K., Chari, S. T., Costello, E., Cruz-Monserrate, Z., Eibl, G., Engleman, E. G., Fisher, W. E., Habtezion, A., Kim, S. K., Korc, M., Logsdon, et al

2018; 47 (5): 516–25

- **Macrochimerism and clinical transplant tolerance.** *Human immunology*
Scandling, J. D., Busque, S., Lowsky, R., Shizuru, J., Shori, A., Engleman, E., Jensen, K., Strober, S.
2018
- **In vitro and in vivo metabolite identification of a novel benzimidazole compound ZLN005 by LC-MS/MS.** *Rapid communications in mass spectrometry : RCM*
Sun, W., Nguyen, K. D., Fitch, W. L., Banister, S. D., Tang, H., Zhang, X., Yu, L., Engleman, E. G., Rajadas, J.
2018
- **Accelerated, but not conventional, radiotherapy of murine B-cell lymphoma induces potent T cell-mediated remissions.** *Blood advances*
Dutt, S., Atallah, M. B., Minamida, Y., Filatenkov, A., Jensen, K. P., Iliopoulou, B. P., Tamosiuniene, R., Waters, J., Engleman, E. G., Strober, S.
2018; 2 (19): 2568–80
- **N-Carboxyanhydride Polymerization of Glycopolypeptides That Activate Antigen-Presenting Cells through Dectin-1 and Dectin-2.** *Angewandte Chemie (International ed. in English)*
Zhou, M. N., Delaveris, C. S., Kramer, J. R., Kenkel, J. A., Engleman, E. G., Bertozzi, C. R.
2018; 57 (12): 3137–42
- **Type I Interferon Responses Drive Intrahepatic T cells to Promote Metabolic Syndrome.** *Science immunology*
Ghazarian, M., Revelo, X. S., Nøhr, M. K., Luck, H., Zeng, K., Lei, H., Tsai, S., Schroer, S. A., Park, Y. J., Chng, M. H., Shen, L., D'Angelo, J. A., Horton, et al
2017; 2 (10)
- **Tolerogenic interactions between CD8(+) dendritic cells and NKT cells prevent rejection of bone marrow and organ grafts** *BLOOD*
Hongo, D., Tang, X., Zhang, X., Engleman, E. G., Strober, S.
2017; 129 (12): 1718-1728
- **A distinct subset of plasmacytoid dendritic cells induces activation and differentiation of B and T lymphocytes.** *Proceedings of the National Academy of Sciences of the United States of America*
Zhang, H., Gregorio, J. D., Iwahori, T., Zhang, X., Choi, O., Tolentino, L. L., Prestwood, T., Carmi, Y., Engleman, E. G.
2017; 114 (8): 1988-1993
- **Progression of EGFR-Mutant Lung Adenocarcinoma is Driven By Alveolar Macrophages.** *Clinical cancer research : an official journal of the American Association for Cancer Research*
Wang, D., Lee, H., Yoon, D., Berry, G., Wheeler, T. M., Sugarbaker, D. J., Kheradmand, F., Engleman, E., Burt, B. M.
2017; 23 (3): 778-788
- **Tolerogenic interactions between CD8+ dendritic cells and NKT cells prevent rejection of bone marrow and organ grafts.** *Blood*
Hongo, D., Tang, X., Zhang, X., Engleman, E. G., Strober, S.
2017
- **Adipose tissue macrophages impair preadipocyte differentiation in humans.** *PloS one*
Liu, L. F., Craig, C. M., Tolentino, L. L., Choi, O., Morton, J., Rivas, H., Cushman, S. W., Engleman, E. G., McLaughlin, T.
2017; 12 (2)
- **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
- **Restoring Retinoic Acid Attenuates Intestinal Inflammation and Tumorigenesis in APCMin/+ Mice.** *Cancer immunology research*
Penny, H. L., Prestwood, T. R., Bhattacharya, N., Sun, F., Kenkel, J. A., Davidson, M. G., Shen, L., Zuniga, L. A., Seeley, E. S., Pai, R., Choi, O., Tolentino, L., Wang, et al
2016; 4 (11): 917-926
- **Nucleic Acid-Targeting Pathways Promote Inflammation in Obesity-Related Insulin Resistance.** *Cell reports*
Revelo, X. S., Ghazarian, M., Chng, M. H., Luck, H., Kim, J. H., Zeng, K., Shi, S. Y., Tsai, S., Lei, H., Kenkel, J., Liu, C. L., Tangsombatvisit, S., Tsui, et al
2016; 16 (3): 717-730
- **Hypothesis: The Intratumoral Immune Response against a Cancer Progenitor Cell Impacts the Development of Well-Differentiated versus Dedifferentiated Disease in Liposarcoma.** *Frontiers in oncology*

- Tseng, W. W., Chopra, S., Engleman, E. G., Pollock, R. E.
2016; 6: 134-?
- **Akt and SHP-1 are DC-intrinsic checkpoints for tumor immunity.** *JCI insight*
Carmi, Y., Prestwood, T. R., Spitzer, M. H., Linde, I. L., Chabon, J., Reticker-Flynn, N. E., Bhattacharya, N., Zhang, H., Zhang, X., Basto, P. A., Burt, B. M., Alonso, M. N., Engleman, et al
2016; 1 (18): e89020
 - **Instructive roles for cytokine-receptor binding parameters in determining signaling and functional potency** *SCIENCE SIGNALING*
Moraga, I., Richter, D., Wilmes, S., Winkelmann, H., Jude, K., Thomas, C., Suhoski, M. M., Engleman, E. G., Piehler, J., Garcia, K. C.
2015; 8 (402)
 - **Ablative Tumor Radiation Can Change the Tumor Immune Cell Microenvironment to Induce Durable Complete Remissions.** *Clinical cancer research*
Filatenkov, A., Baker, J., Mueller, A. M., Kenkel, J., Ahn, G., Dutt, S., Zhang, N., Kohrt, H., Jensen, K., Dejbakhsh-Jones, S., Shizuru, J. A., Negrin, R. N., Engleman, et al
2015; 21 (16): 3727-3739
 - **A Three-Gene Assay for Monitoring Immune Quiescence in Kidney Transplantation** *JOURNAL OF THE AMERICAN SOCIETY OF NEPHROLOGY*
Roedder, S., Li, L., Alonso, M. N., Hsieh, S., Minh Thien Vu, M. T., Dai, H., Sigdel, T. K., Bostock, I., Macedo, C., Metes, D., Zeevi, A., Shapiro, R., Salvatierra, et al
2015; 26 (8): 2042-2053
 - **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-?
 - **The receptor CD44 is associated with systemic insulin resistance and proinflammatory macrophages in human adipose tissue** *DIABETOLOGIA*
Liu, L. F., Kodama, K., Wei, K., Tolentino, L. L., Choi, O., Engleman, E. G., Butte, A. J., McLaughlin, T.
2015; 58 (7): 1579-1586
 - **Regulation of Obesity-Related Insulin Resistance with Gut Anti-inflammatory Agents** *CELL METABOLISM*
Luck, H., Tsai, S., Chung, J., Clemente-Casares, X., Ghazarian, M., Revelo, X. S., Lei, H., Luk, C. T., Shi, S. Y., Surendra, A., Copeland, J. K., Ahn, J., Prescott, et al
2015; 21 (4): 527-542
 - **Chimerism, Graft Survival, and Withdrawal of Immunosuppressive Drugs in HLA Matched and Mismatched Patients After Living Donor Kidney and Hematopoietic Cell Transplantation.** *American journal of transplantation*
Scandling, J. D., Busque, S., Shizuru, J. A., Lowsky, R., Hoppe, R., Dejbakhsh-Jones, S., Jensen, K., Shori, A., Strober, J. A., Lavori, P., Turnbull, B. B., Engleman, E. G., Strober, et al
2015; 15 (3): 695-704
 - **Invariant natural killer T cells in lupus patients promote IgG and IgG autoantibody production** *EUROPEAN JOURNAL OF IMMUNOLOGY*
Shen, L., Zhang, H., Caimol, M., Benike, C. J., Chakravarty, E. F., Strober, S., Engleman, E. G.
2015; 45 (2): 612-623
 - **Detection of intestinal cancer by local, topical application of a quenched fluorescence probe for cysteine cathepsins.** *Chemistry & biology*
Segal, E., Prestwood, T. R., van der Linden, W. A., Carmi, Y., Bhattacharya, N., Withana, N., Verdoes, M., Habtezion, A., Engleman, E. G., Bogyo, M.
2015; 22 (1): 148-158
 - **Adaptive Immunity and Antigen-Specific Activation in Obesity-Associated Insulin Resistance.** *Mediators of inflammation*
Chng, M. H., Alonso, M. N., Barnes, S. E., Nguyen, K. D., Engleman, E. G.
2015; 2015: 593075-?
 - **Adaptive Immunity and Antigen-Specific Activation in Obesity-Associated Insulin Resistance** *MEDIATORS OF INFLAMMATION*
Chng, M. H., Alonso, M. N., Barnes, S. E., Nguyen, K. D., Engleman, E. G.
2015
 - **T-Cell Profile in Adipose Tissue Is Associated With Insulin Resistance and Systemic Inflammation in Humans** *ARTERIOSCLEROSIS THROMBOSIS AND VASCULAR BIOLOGY*
McLaughlin, T., Liu, L., Lamendola, C., Shen, L., Morton, J., Rivas, H., Winer, D., Tolentino, L., Choi, O., Zhang, H., Chng, M. H., Engleman, E.

- 2014; 34 (12): 2637-2643
- **T-cell profile in adipose tissue is associated with insulin resistance and systemic inflammation in humans.** *Arteriosclerosis, thrombosis, and vascular biology*
McLaughlin, T., Liu, L., Lamendola, C., Shen, L., Morton, J., Rivas, H., Winer, D., Tolentino, L., Choi, O., Zhang, H., Hui Yen Chng, M., Engleman, E.
2014; 34 (12): 2637-2643
 - **Requirement for Interactions of Natural Killer T Cells and Myeloid-Derived Suppressor Cells for Transplantation Tolerance** *AMERICAN JOURNAL OF TRANSPLANTATION*
Hongo, D., Tang, X., Baker, J., Engleman, E. G., Strober, S.
2014; 14 (11): 2467-2477
 - **Potential for immunotherapy in soft tissue sarcoma** *HUMAN VACCINES & IMMUNOTHERAPEUTICS*
Tseng, W. W., Somaiah, N., Engleman, E. G.
2014; 10 (11): 3117-3124
 - **Treatment of 4T1 Metastatic Breast Cancer with Combined Hypofractionated Irradiation and Autologous T-Cell Infusion.** *Radiation research*
Filatenkov, A., Baker, J., Müller, A. M., Ahn, G., Kohrt, H., Dutt, S., Jensen, K., Dejbakhsh-Jones, S., Negrin, R. S., Shizuru, J. A., Engleman, E. G., Strober, S.
2014; 182 (2): 163-169
 - **Depletion of inflammatory dendritic cells with anti-CD209 conjugated to saporin toxin.** *Immunologic research*
Alonso, M. N., Gregorio, J. G., Davidson, M. G., Gonzalez, J. C., Engleman, E. G.
2014; 58 (2-3): 374-377
 - **Immune correlates of talactoferrin alfa in biopsied tumor of relapsed/refractory metastatic non-small cell lung cancer patients.** *Immunopharmacology and immunotoxicology*
Riess, J. W., Bhattacharya, N., Blenman, K. R., Neal, J. W., Hwang, G., Pultar, P., San-Pedro Salcedo, M., Engleman, E., Lee, P. P., Malik, R., Wakelee, H. A.
2014; 36 (2): 182-186
 - **B Lymphocytes in obesity-related adipose tissue inflammation and insulin resistance** *CELLULAR AND MOLECULAR LIFE SCIENCES*
Winer, D. A., Winer, S., Chng, M. H., Shen, L., Engleman, E. G.
2014; 71 (6): 1033-1043
 - **In Vivo T Cell Activation Induces the Formation of CD209(+) PDL-2(+) Dendritic Cells** *PLOS ONE*
Davidson, M. G., Alonso, M. N., Kenkel, J. A., Suhoski, M. M., Gonzalez, J. C., Yuan, R., Engleman, E. G.
2013; 8 (10)
 - **Th17 cells induce Th1-polarizing monocyte-derived dendritic cells.** *Journal of immunology*
Davidson, M. G., Alonso, M. N., Yuan, R., Axtell, R. C., Kenkel, J. A., Suhoski, M. M., González, J. C., Steinman, L., Engleman, E. G.
2013; 191 (3): 1175-1187
 - **Uniform Long-Term Graft Survival in a Clinical Trial of the Induction of Tolerance to Kidney Transplants.** *13th American Transplant Congress (ATC)*
Scandling, J., Busque, S., Shori, A., Dejbakhsh-Jones, S., Shizuru, J., Lowsky, R., Benike, C., Engleman, E., Strober, S.
WILEY-BLACKWELL.2013: 200-200
 - **In vivo T cell activation induces the formation of CD209(+) PDL-2(+) dendritic cells.** *PloS one*
Davidson, M. G., Alonso, M. N., Kenkel, J. A., Suhoski, M. M., González, J. C., Yuan, R., Engleman, E. G.
2013; 8 (10)
 - **Redirecting cell-type specific cytokine responses with engineered interleukin-4 superkines** *NATURE CHEMICAL BIOLOGY*
Junttila, I. S., Creusot, R. J., Moraga, I., Bates, D. L., Wong, M. T., Alonso, M. N., Suhoski, M. M., Lupardus, P., Meier-Schellersheim, M., Engleman, E. G., Utz, P. J., Fathman, C. G., Paul, et al
2012; 8 (12): 990-998
 - **Cd14 SNPs regulate the innate immune response** *MOLECULAR IMMUNOLOGY*
Liu, H., Hu, Y., Zheng, M., Suhoski, M. M., Engleman, E. G., Dill, D. L., Hudnall, M., Wang, J., Spolski, R., Leonard, W. J., Peltz, G.
2012; 51 (2): 112-127
 - **Tolerance and Withdrawal of Immunosuppressive Drugs in Patients Given Kidney and Hematopoietic Cell Transplants** *AMERICAN JOURNAL OF TRANSPLANTATION*
Scandling, J. D., Busque, S., Dejbakhsh-Jones, S., Benike, C., Sarwal, M., Millan, M. T., Shizuru, J. A., Lowsky, R., Engleman, E. G., Strober, S.
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