Stanford



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

- Member, Stanford Immunology Program, Stanford, (1980- present)
- 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

For the past 40 years my research has been directed at discovering ways to manipulate the immune system for the treatment and prevention of life-threatening diseases. At the start of my career, I generated the first monoclonal antibodies to human T lymphocytes, including anti-CD4 and anti-CD8, enabling me and others to isolate these cells and analyze their functions. In addition to these fundamental studies, I used the antibodies to develop a screening test for blood donors prior to the discovery of HIV, and later I used them to study the role of CD4 in HIV infection. Thereafter, I began a decades-long investigation into myeloid cell biology, focusing initially on dendritic cells (DCs). My group was the first to develop a method for isolating and arming human dendritic cells and evaluate their ability to induce anti-tumor immunity in cancer patients. Our work led to the development of the

first immune cell therapy, Sipuleucel-T (Provenge), which was approved by the FDA in 2010 for the treatment of advanced prostate cancer. This accomplishment paved the way to a new era in which immune cell therapies have become standard treatments for several cancers. In the past decade, my research has been aimed at understanding the cellular and molecular basis of peripheral immune tolerance in health and disease. This effort led to the discovery that tumor cells that invade lymph nodes (LNs) alter LN-resident immune cells, resulting in the generation of tumor-specific Tregs that disseminate throughout the host and promote distant metastasis. Recently, we discovered that erythropoietin (Epo)-mediated activation of its receptor (EpoR) on macrophages and Type 1 DCs causes these cells to become tolerogenic and suppress anti-cancer immunity through their induction of antigen-specific Tregs and inhibition of CD8 cytotoxic T cells. This discovery was enabled by methods we developed for analyzing the immune response systemwide and our generation of novel mouse models of cancer that mimic their human counterparts in their driver mutations, growth characteristics and immune profiles. Beyond my research contributions, I am proud of having trained more than 100 graduate and postdoctoral students, many of whom have gone on to distinguished academic careers. Examples include Miriam Merad (Mount Sinai School of Medicine), Lawrence Fong (Fred Hutchinson Cancer Center), Matthew Spitzer (University of California, San Francisco), Daniel Winer (University of Toronto), Jeffrey Lifson (Frederick National Laboratory) and Nathan Reticker-Flynn (Stanford University).

Teaching

STANFORD ADVISEES

Doctoral Dissertation Reader (AC)

Christie Chang, Alea Delmastro, Natalie Pilla, Vishnu Shankar

Postdoctoral Faculty Sponsor

Wenhui Guo, Kazukuni Hayashi, Hyungjoo Kim, Guotao Yu

Doctoral Dissertation Advisor (AC)

Markus Diehl

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Cancer Biology (PhD Program)
- Immunology (PhD Program)

Publications

PUBLICATIONS

- **Neutrophils in Cancer** *Nature Reviews Cancer*
  Diehl, M. I., Basto, P. A., Abikenari, M. A., Linde, I., Okwan, D., Engleman, E.
  2026
- **Integration of donor microbiota following FMT correlates with anti-PD-1 response in melanoma.** *Nature communications*
  Fessler, J. L., Olm, M. R., Engleman, E. G., Sonnenburg, J. L.
  2026
- **Rethinking the origins and functions of adaptive immunity.** *Trends in immunology*
  Okwan-Duodu, D., Sperling, E. A., Engleman, E. G.
  2026
- **Macrophage-targeted PEGylated liposomes ameliorate experimental autoimmune encephalomyelitis** *FRONTIERS IN IMMUNOLOGY*
  Muselman, A., Yu, L. W., Nguyen, K. D., Inayathullah, M., Liu, Q., Brewer, K. D., Malkovskiy, A. V., Rajadas, J., Engleman, E. G.
  2026; 16
- **Mitochondrial transfer from immune to tumor cells enables lymph node metastasis.** *Cell metabolism*

Terasaki, A., Bhatnagar, K., Weiner, A. T., Tan, Y., Szeifert, V., Huang, H. L., Wiggers, L., Rodrigues, V., Rada, C. C., Shankar, V., Saito, S., Ankomah, P. O., Roth, et al

2026

- **Erythropoietin receptor on cDC1s dictates immune tolerance.** *Nature*

  Zhang, X., McGinnis, C. S., Yu, G., Chen, S., Zheng, P., Schürch, C. M., Hiam-Galvez, K. J., Reticker-Flynn, N. E., Guo, W., Yao, W., Qiu, J., Muselman, A., Linde, et al

  2025

- **Mitochondria redistribution organizes the immunosuppressive tumor ecosystem.** *bioRxiv : the preprint server for biology*

  Terasaki, A., Weiner, A. T., Tan, Y., Szeifert, V., Bhatnagar, K., Rada, C. C., Shankar, V., Kernick, C., Mahmood, M., Wiggers, L., Rodrigues, V. R., Gammage, P. A., Roth, et al

  2025

- **Uncovering the immune landscape of uterus-draining lymph nodes in human pregnancy**

  Bruton, K., Yu, G., Walker, C., Engleman, E., Angelo, M.

  OXFORD UNIV PRESS.2025

- **Harnessing neutrophils to prevent metastasis**

  Diehl, M., Reticker-Flynn, N. E., Engleman, E. G.

  OXFORD UNIV PRESS.2025

- **Early antiviral treatment following gammaherpesvirus-68 infection of the central nervous system prevents subsequent multiple sclerosis-like disease.** *Journal of neuroinflammation*

  Muselman, A., Kongara, S., Hsu, N., Aggarwal, A., Yu, J., Rajadas, J., Engleman, E. G.

  2025; 22 (1): 228

- **Hijacking erythropoietin: A tumour-intrinsic strategy to escape immune surveillance.** *Clinical and translational medicine*

  Chiu, D. K., Engleman, E. G.

  2025; 15 (8): e70427

- **Tumor-derived erythropoietin acts as an immunosuppressive switch in cancer immunity.** *Science (New York, N.Y.)*

  Chiu, D. K., Zhang, X., Cheng, B. Y., Liu, Q., Hayashi, K., Yu, B., Lee, R., Zhang, C., An, X., Rajadas, J., Reticker-Flynn, N. E., Rankin, E. B., Engleman, et al

  2025; 388 (6745): eadr3026

- **Macrophage-targeted PEGylated liposomes ameliorate experimental autoimmune encephalomyelitis.** *Frontiers in immunology*

  Muselman, A., Yu, L. W., Nguyen, K. D., Inayathullah, M., Liu, Q., Brewer, K. D., Malkovskiy, A. V., Rajadas, J., Engleman, E. G.

  2025; 16: 1657131

- **Erythropoietin Promotes GvHD Prevention through Type 1 Conventional Dendritic Cells**

  Yan, H., Zhang, X., Baker, J., Engleman, E. G., Negrin, R. S.

  ELSEVIER.2024: 2012-2013

- **Sialylated glycoproteins suppress immune cell killing by binding to Siglec-7 and Siglec-9 in prostate cancer.** *The Journal of clinical investigation*

  Wen, R. M., Stark, J. C., Marti, G. E., Fan, Z., Lyu, A., Garcia Marques, F. J., Zhang, X., Riley, N. M., Totten, S. M., Bermudez, A., Nolley, R., Zhao, H., Fong, et al

  2024

- **The acid-sensing receptor GPR65 on tumor macrophages drives tumor growth in obesity.** *Science immunology*

  Bagchi, S., Yuan, R., Huang, H. L., Zhang, W., Chiu, D. K., Kim, H., Cha, S. L., Tolentino, L., Lowitz, J., Liu, Y., Moshnikova, A., Andreev, O., Plevritis, et al

  2024; 9 (100): eadg6453

- **Metabolic regulator LKB1 controls adipose tissue ILC2 PD-1 expression and mitochondrial homeostasis to prevent insulin resistance.** *Immunity*

  Sun, J., Zhang, Y., Zhang, Q., Hu, L., Zhao, L., Wang, H., Yuan, Y., Niu, H., Wang, D., Zhang, H., Liu, J., Feng, X., Su, et al

  2024

- **Matrix viscoelasticity promotes liver cancer progression in the pre-cirrhotic liver.** *Nature*

Fan, W., Adebowale, K., Váncza, L., Li, Y., Rabbi, M. F., Kunimoto, K., Chen, D., Mozes, G., Chiu, D. K., Li, Y., Tao, J., Wei, Y., Adeniji, et al
2024

- **Galectin-1 mediates chronic STING activation in tumors to promote metastasis through MDSC recruitment.** *Cancer research*
  Nambiar, D. K., Viswanathan, V., Cao, H., Zhang, W., Guan, L., Chamoli, M., Holmes, B., Kong, C., Hildebrand, R., Koong, A. J., von Eyben, R., Plevritis, S., Li, et al
  2023

- **Lymph nodes: at the intersection of cancer treatment and progression.** *Trends in cell biology*
  Reticker-Flynn, N. E., Engleman, E. G.
  2023

- **Neutrophil-activating therapy for the treatment of cancer.** *Cancer cell*
  Linde, I. L., Prestwood, T. R., Qiu, J., Pilarowski, G., Linde, M. H., Zhang, X., Shen, L., Reticker-Flynn, N. E., Chiu, D. K., Sheu, L. Y., Van Deursen, S., Tolentino, L. L., Song, et al
  2023

- **Identification of cell types in multiplexed in situ images by combining protein expression and spatial information using CELESTA.** *Nature methods*
  Zhang, W., Li, I., Reticker-Flynn, N. E., Good, Z., Chang, S., Samusik, N., Saumyaa, S., Li, Y., Zhou, X., Liang, R., Kong, C. S., Le, Q., Gentles, et al
  2022

- **Lymph node colonization induces tumor-immune tolerance to promote distant metastasis.** *Cell*
  Reticker-Flynn, N. E., Zhang, W., Belk, J. A., Basto, P. A., Escalante, N. K., Pilarowski, G. O., Bejnood, A., Martins, M. M., Kenkel, J. A., Linde, I. L., Bagchi, S., Yuan, R., Chang, et al
  2022

- **Abdominopelvic FLASH Irradiation Improves PD-1 Immune Checkpoint Inhibition in Preclinical Models of Ovarian Cancer.** *Molecular cancer therapeutics*
  Eggold, J. T., Chow, S., Melemenidis, S., Wang, J., Natarajan, S., Loo, P. E., Manjappa, R., Viswanathan, V., Kidd, E. A., Engleman, E., Dorigo, O., Loo, B. W., Rankin, et al
  2021

- **DECTIN-2, A NOVEL TARGET FOR TUMOR MACROPHAGE REPROGRAMMING IN CANCER IMMUNOTHERAPY**
  Kenkel, J., Ho, P., Kongara, S., Henning, K., Kreder, C., Nolin, J., Chapin, S., Kowanetz, M., Alonso, M., Ackerman, S., Engleman, E., Dornan, D.
  BMJ PUBLISHING GROUP.2021: A903

- **Brain profiling in murine colitis and human epilepsy reveals neutrophils and TNFalpha as mediators of neuronal hyperexcitability.** *Journal of neuroinflammation*
  Barnes, S. E., Zera, K. A., Ivison, G. T., Buckwalter, M. S., Engleman, E. G.
  2021; 18 (1): 199

- **Development of immunosuppressive myeloid cells to induce tolerance in solid organ and hematopoietic cell transplant recipients.** *Blood advances*
  Jensen, K. P., Hongo, D., Ji, X., Zheng, P., Pawar, R. D., Wu, H., Busque, S., Scandling, J. D., Shizuru, J. A., Lowsky, R., Shori, A., Dutt, S., Waters, et al
  2021

- **Targeting Glycolysis in Macrophages Confers Protection Against Pancreatic Ductal Adenocarcinoma** *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES*
  Penny, H., Sieow, J., Gun, S., Lau, M., Lee, B., Tan, J., Phua, C., Toh, F., Nga, Y., Yeap, W., Janela, B., Kumar, D., Chen, et al
  2021; 22 (12)

- **Antitumor effects of iPSC-based cancer vaccine in pancreatic cancer.** *Stem cell reports*
  Ouyang, X., Liu, Y., Zhou, Y., Guo, J., Wei, T., Liu, C., Lee, B., Chen, B., Zhang, A., Casey, K. M., Wang, L., Kooreman, N. G., Habtezion, et al
  2021

- **Mechanical Stiffness Controls Dendritic Cell Metabolism and Function.** *Cell reports*
  Chakraborty, M., Chu, K., Shrestha, A., Revelo, X. S., Zhang, X., Gold, M. J., Khan, S., Lee, M., Huang, C., Akbari, M., Barrow, F., Chan, Y. T., Lei, et al
  2021; 34 (2): 108609

- **Immune-stimulating antibody conjugates elicit robust myeloid activation and durable antitumor immunity** *NATURE CANCER*
  Ackerman, S. E., Pearson, C. I., Gregorio, J. D., Gonzalez, J. C., Kenkel, J. A., Hartmann, F. J., Luo, A., Ho, P. Y., LeBlanc, H., Blum, L. K., Kimmey, S. C., Luo, A., Nguyen, et al
  2021; 2 (1): 18-+

- **Identification of Two Subsets of Murine DC1 Dendritic Cells That Differ by Surface Phenotype, Gene Expression, and Function.** *Frontiers in immunology*
  Hongo, D., Zheng, P., Dutt, S., Pawar, R. D., Meyer, E., Engleman, E. G., Strober, S.
  2021; 12: 746469

- **Immune-stimulating antibody conjugates elicit robust myeloid activation and durable antitumor immunity.** *Nature cancer*
  Ackerman, S. E., Pearson, C. I., Gregorio, J. D., Gonzalez, J. C., Kenkel, J. A., Hartmann, F. J., Luo, A., Ho, P. Y., LeBlanc, H., Blum, L. K., Kimmey, S. C., Luo, A., Nguyen, et al
  2021; 2 (1): 18-33

- **Immune Checkpoint Inhibitors for the Treatment of Cancer: Clinical Impact and Mechanisms of Response and Resistance.** *Annual review of pathology*
  Bagchi, S., Yuan, R., Engleman, E. G.
  2020

- **COVALENT ATTACHMENT OF A TLR7/8 AGONIST TO TUMOR-TARGETING ANTIBODIES DRIVES POTENT ANTI-TUMOR EFFICACY BY SYNERGISTICALLY ACTIVATING FCGR- AND TLR- SIGNALING AND ENABLES SAFE SYSTEMIC ADMINISTRATION**
  Ackerman, S., Hartmann, F., Pearson, C., Gonzalez, J., Ho, P., Kimmey, S., Luo, A., Ackerman, B., Lee, A., Laura, R., Paik, J., Henning, K., Jackson, et al
  BMJ PUBLISHING GROUP.2020: A360

- **A versatile system to record cell-cell interactions.** *eLife*
  Tang, R., Murray, C. W., Linde, I. L., Kramer, N. J., Lyu, Z., Tsai, M. K., Chen, L. C., Cai, H., Gitler, A. D., Engleman, E., Lee, W., Winslow, M. M.
  2020; 9

- **Human Regulatory Dendritic Cells Develop From Monocytes in Response to Signals From Regulatory and Helper T Cells.** *Frontiers in immunology*
  Zhang, X., Zheng, P., Prestwood, T. R., Zhang, H., Carmi, Y., Tolentino, L. L., Wu, N., Choi, O., Winer, D. A., Strober, S., Kang, E. S., Alonso, M. N., Engleman, et al
  2020; 11: 1982

- **ImmunoGlobe: enabling systems immunology with a manually curated intercellular immune interaction network.** *BMC bioinformatics*
  Atallah, M. B., Tandon, V., Hiam, K. J., Boyce, H., Hori, M., Atallah, W., Spitzer, M. H., Engleman, E., Mallick, P.
  2020; 21 (1): 346

- **Lymph node colonization promotes distant tumor metastasis through the induction of tumor-specific immunosuppression**
  Reticker-Flynn, N. E., Basto, P. A., Zhang, W., Martins, M. M., Chang, S., Gentles, A. J., Sunwoo, J. B., Plevritis, S. K., Engleman, E. G.
  AMER ASSOC CANCER RESEARCH.2020

- **Cancer systems immunology.** *eLife*
  Reticker-Flynn, N. E., Engleman, E. G.
  2020; 9

- **Lymph node colonization promotes distant tumor metastasis through the induction of tumor-specific immunosuppression.**
  Reticker-Flynn, N. E., Basto, P. A., Zhang, W., Bejnood, A., Kenkel, J. A., Martins, M. M., Chang, S., Gentles, A. J., Sunwoo, J. B., Plevritis, S. K., Engleman, E. G.
  AMER ASSOC CANCER RESEARCH.2020: 25–26

- **Mixed chimerism and acceptance of kidney transplants after immunosuppressive drug withdrawal.** *Science translational medicine*
  Busque, S. n., Scandling, J. D., Lowsky, R. n., Shizuru, J. n., Jensen, K. n., Waters, J. n., Wu, H. H., Sheehan, K. n., Shori, A. n., Choi, O. n., Pham, T. n., Fernandez Vina, M. A., Hoppe, et al
  2020; 12 (528)

- **Enteric Glia Play a Critical Role in Promoting the Development of Colorectal Cancer** *Frontiers in Oncology*
  Yuan, R., Bhattacharya, N., Kenkel, J. A., Shen, J., DiMaio, M. A., Bagchi, S., Prestwood, T. R., Habtezion, A., Engleman, E. G.
  2020; 10: 595892

- **Human regulatory dendritic cells develop from monocytes in response to signals from regulatory and helper T cells** *Frontiers In Immunology*
  Zhang, X., Zheng, P., Prestwood, T., Zhang, H., Cami, Y., Tolentino, L., Wu, N., Choi, O., Winer, D., Strober, S., Kang, E., Alonso, M., Engleman, et al
  2020

- **Hyaluronan synthesis inhibition impairs antigen presentation and delays transplantation rejection.** *Matrix biology : journal of the International Society for Matrix Biology*
  Marshall, P. L., Nagy, N. n., Kaber, G. n., Barlow, G. L., Ramesh, A. n., Xie, B. J., Linde, M. H., Haddock, N. L., Lester, C. A., Tran, Q. L., de Vries, C. n., Hargil, A. n., Malkovskiy, et al
  2020

- **HER2-targeting TLR7/8 immune-stimulating antibody conjugates elicit robust myeloid activation and anti-tumor immune responses in a TLR- and FcR- dependent manner**
  Gonzalez, J., Pearson, C., Ackerman, S., Kenkel, J., Ho, P., Luo, A., Nguyen, M., Paik, J., Lee, A., Laura, R., Li, H., Kreder, C., Henning, et al
  BMC.2019

- **Tumor-binding antibodies induce potent dendritic cell-mediated tumor immunity** *ONCOIMMUNOLOGY*
  Carmi, Y., Prestwood, T., Engleman, E. G.
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- **A Novel Type of Blood Biomarker: Distinct Changes of Cytokine-Induced STAT Phosphorylation in Blood T Cells Between Colorectal Cancer Patients and Healthy Individuals.** *Cancers*
  Yun, J. W., Lee, S., Kim, H. M., Chun, S., Engleman, E. G., Kim, H. C., Kang, E.
  2019; 11 (8)

- **Lymph node colonization promotes distant tumor metastasis through the induction of systemic immune tolerance**
  Reticker-Flynn, N. E., Martins, M. M., Basto, P. A., Zhang, W., Bejnood, A., Gentles, A. J., Sunwoo, J. B., Plevritis, S. K., Engleman, E. G.
  AMER ASSOC CANCER RESEARCH.2019

- **Tumor-binding antibodies induce potent dendritic cell-mediated tumor immunity.** *Oncoimmunology*
  Carmi, Y., Prestwood, T., Engleman, E. G.
  2019; 8 (10): e1078063

- **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-+

- **Structure of the IFNgamma 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., Piehler, J., Engleman, E. G., Garcia, K. C.
  2019

- **A gut punch fights cancer and infection** *NATURE*
  Reticker-Flynn, N. E., Engleman, E. G.
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- **Myeloid sphingosine-1-phosphate receptor 1 is important for CNS autoimmunity and neuroinflammation.** *Journal of autoimmunity*
  Tsai, H. C., Nguyen, K. n., Hashemi, E. n., Engleman, E. n., Hla, T. n., 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

- **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. A. 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

- **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

- **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. n., Nguyen, K. D., Fitch, W. L., Banister, S. D., Tang, H. n., Zhang, X. n., Yu, L. n., Engleman, E. G., Rajadas, J. n.
  2018

- **Accelerated, but not conventional, radiotherapy of murine B-cell lymphoma induces potent T cell-mediated remissions.** *Blood advances*
  Dutt, S. n., Atallah, M. B., Minamida, Y. n., Filatenkov, A. n., Jensen, K. P., Iliopoulou, B. P., Tamosiuniene, R. n., Waters, J. n., Engleman, E. G., Strober, S. n.
  2018; 2 (19): 2568–80

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  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): 4158-4170

- **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.
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  2017
- **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
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  Alcántara-Hernández, M. n., Leylek, R. n., Wagar, L. E., Engleman, E. G., Keler, T. n., Marinkovich, M. P., Davis, M. M., Nolan, G. P., Idoyaga, J. n.
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