




Edgar Engleman

Professor of Pathology and of Medicine (Immunology and Rheumatology)

 NIH Biosketch available Online

 Curriculum Vitae available Online

CONTACT INFORMATION

• Administrative Contact

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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

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. We make extensive use of mouse models for in depth mechanistic studies, but we also use human tissues to confirm the clinical relevance of our findings. To pursue this work, we have been using newer multiplex imaging technologies and deep gene sequencing.

We have been particularly interested in myeloid immune cells, including dendritic cells (DCs) and macrophages, that can either induce or suppress immunity. Our first generation methods for isolating and arming human myeloid cells with tumor antigens provided the basis for the first FDA-approved cell-based immunotherapy --- i.e., Sipuleucel-T (Provenge) that was approved in 2010 for the treatment of advanced prostate cancer. Subsequently, we developed a treatment that reprograms immunosuppressive myeloid cells in tumors into immunostimulatory cells that present tumor antigens to host T cells, resulting in potent anti-tumor immunity. This strategy entered clinical trials in late 2020 for the treatment of multiple cancers. Most recently, we discovered that tumor cells colonizing lymph nodes alter their gene expression to enable interactions with immune cells in the involved nodes, resulting in tumor-specific immune tolerance that, in turn, enables distant metastasis. This discovery formed the basis for an ongoing multi-laboratory effort to decipher the cellular and molecular mechanisms underlying tumor metastasis.

In addition to cancer, we have been studying the role of immune cells in neurodegenerative disease, metabolic diseases, and organ transplant rejection. We helped to develop a therapy that utilizes radiation to lymphoid organs to induce immune tolerance, enabling patients who receive organ transplants to retain those organs life-long without the need for immunosuppressive drugs. This therapy is now in advanced clinical trials in kidney transplant patients. The key to the success of this therapy appears to be the selective activation of tolerogenic myeloid immune cells. Our evidence suggests that the same cells function normally to prevent autoimmunity in healthy individuals but are hijacked by cancers to enable their escape from the host immune system. Once we fully understand this mechanism, which is independent of known checkpoint mechanisms, we believe there is the potential to manipulate it for the treatment of many diseases, including cancers and autoimmune disorders.

Teaching

STANFORD ADVISEES

Doctoral Dissertation Reader (AC)

Preksha Bhagchandani, Christie Chang, Alea Delmastro, Vishnu Shankar

Postdoctoral Faculty Sponsor

Wenhui Guo, Kazukuni Hayashi, Hyungjoo Kim, Guotao Yu

Doctoral Dissertation Advisor (AC)

Markus Diehl, Alex Muselman

Postdoctoral Research Mentor

Pamela Basto

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

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

Publications

PUBLICATIONS

- **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
- **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., Vánca, 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
- **Conditional Knockout of Hypoxia-Inducible Factor 1-Alpha in Tumor-Infiltrating Neutrophils Protects against Pancreatic Ductal Adenocarcinoma.** *International journal of molecular sciences*
Sieow, J. L., Penny, H. L., Gun, S. Y., Tan, L. Q., Duan, K., Yeong, J. P., Pang, A., Lim, D., Toh, H. C., Lim, T. K., Engleman, E., Rotzschke, O., Ng, et al
2023; 24 (1)
- **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.
2019; 8 (10)
- **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.
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. 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. 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
- **N-Carboxyanhydride Polymerization of Glycopolypeptides That Activate Antigen-Presenting Cells through Dectin-1 and Dectin-2.** *Angewandte Chemie (International ed. in English)*
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2018; 57 (12): 3137–42
- **An Immunosuppressive Dendritic Cell Subset Accumulates at Secondary Sites and Promotes Metastasis in Pancreatic Cancer.** *Cancer research*
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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.

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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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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
- **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
- **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
- **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*
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2017
- **Restoring Retinoic Acid Attenuates Intestinal Inflammation and Tumorigenesis in APCMin/+ Mice.** *Cancer immunology research*
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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
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2016; 16 (3): 717-730
- **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
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- **Akt and SHP-1 are DC-intrinsic checkpoints for tumor immunity.** *JCI insight*
Carmi, Y. n., Prestwood, T. R., Spitzer, M. H., Linde, I. L., Chabon, J. n., Reticker-Flynn, N. E., Bhattacharya, N. n., Zhang, H. n., Zhang, X. n., Basto, P. A., Burt, B. M., Alonso, M. N., Engleman, et al
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- **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.
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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
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