



Eugene Butcher

Klaus Bensch Professor of Pathology

CONTACT INFORMATION

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Bio

ACADEMIC APPOINTMENTS

- Professor, Pathology
- Member, Bio-X
- Member, Cardiovascular Institute
- Member, Stanford Cancer Institute
- Member, Wu Tsai Neurosciences Institute

LINKS

- Butcher Lab Home Page: <http://butcherlab.stanford.edu/>

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Our lab studies interactions of immune cells with vascular endothelium and tissue environments in immunity, inflammation, and tolerance. We pioneered the discovery of adhesion and chemotactic mechanisms underlying lymphocyte trafficking, and formulated the multistep paradigm of leukocyte recruitment, foundational for understanding immune specificity and therapeutic targeting.

There has never been a more exciting time in science: We are now integrating single-cell transcriptomics and computational biology with laboratory studies to map the diversity and plasticity of immune and vascular systems. These approaches have uncovered molecular mechanisms of lymphocyte homing to the respiratory mucosae, identified GPR25 as a chemoattractant receptor critical for mucosal and CNS immunity, and exposed novel roles for somatostatin-SSTR2 signaling in T cell progenitor trafficking for the establishment of the gut immune system. A major new focus is in leveraging deep learning, AlphaFold-based structure modeling, and AI-driven data mining to accelerate our biological discovery at scale, and to uncover new ligand-receptor interactions and new therapeutic targets.

By combining computational and experimental approaches the lab is discovering fundamental principles of vascular and immune system integration, identifying novel targets and designing methods to reprogram immune cell migration to treat cancer, autoimmune diseases, and inflammatory disorders.

Teaching

STANFORD ADVISEES

Postdoctoral Faculty Sponsor

Nanna Cathrine Giercksky Nilssen, Tanya Sharma

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Cancer Biology (Phd Program)
- Cardiovascular Medicine (Fellowship Program)
- Immunology (Phd Program)
- Microbiology and Immunology (Phd Program)

Publications

PUBLICATIONS

- **An SSTR2-somatostatin chemotactic axis drives T cell progenitor homing to the intestines.** *Nature immunology*
Ocón, B., Brulois, K. F., Hadeiba, H., Gaafarekhalifa, M., Ayesha, A., Bi, Y., Xiang, M., Gulman, J., Kooshesh, M., Pan, J., Butcher, E. C.
2025
- **A lymphocyte chemoaffinity axis for lung, non-intestinal mucosae and CNS.** *Nature*
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2024
- **An NKX-COUP-TFII morphogenetic code directs mucosal endothelial addressin expression.** *Nature communications*
Dinh, T. T., Xiang, M., Rajaraman, A., Wang, Y., Salazar, N., Zhu, Y., Roper, W., Rhee, S., Brulois, K., O'Hara, E., Kiefel, H., Dinh, T. M., Bi, et al
2022; 13 (1): 7448
- **A molecular map of murine lymph node blood vascular endothelium at single cell resolution.** *Nature communications*
Brulois, K. n., Rajaraman, A. n., Szade, A. n., Nordling, S. n., Bogoslawski, A. n., Dermadi, D. n., Rahman, M. n., Kiefel, H. n., O'Hara, E. n., Koning, J. J., Kawashima, H. n., Zhou, B. n., Vestweber, et al
2020; 11 (1): 3798
- **A Single-Cell Transcriptional Roadmap of the Mouse and Human Lymph Node Lymphatic Vasculature.** *Frontiers in cardiovascular medicine*
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- **Exploration of Cell Development Pathways through High-Dimensional Single Cell Analysis in Trajectory Space.** *iScience*
Dermadi, D. n., Bscheider, M. n., Bjegovic, K. n., Lazarus, N. H., Szade, A. n., Hadeiba, H. n., Butcher, E. C.
2020; 23 (2): 100842
- **DGAT1 inhibits retinol-dependent regulatory T cell formation and mediates autoimmune encephalomyelitis** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
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2019; 116 (8): 3126-3135
- **A Mucosal and Cutaneous Chemokine Ligand for the Lymphocyte Chemoattractant Receptor GPR15** *FRONTIERS IN IMMUNOLOGY*
Ocon, B., Pan, J., Dinh, T., Chen, W., Ballet, R., Bscheider, M., Habtezion, A., Tu, H., Zabel, B. A., Butcher, E. C.
2017; 8: 1111
- **Role and species-specific expression of colon T cell homing receptor GPR15 in colitis.** *Nature immunology*

- Nguyen, L. P., Pan, J., Dinh, T. T., Hadeiba, H., O'Hara, E., Ebtikar, A., Hertweck, A., Gökmen, M. R., Lord, G. M., Jenner, R. G., Butcher, E. C., Habtezion, A.
2015; 16 (2): 207-213
- **An integrative biology approach for analysis of drug action in models of human vascular inflammation** *FASEB JOURNAL*
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 - **Inflammation switches the chemoattractant requirements for naive lymphocyte entry into lymph nodes.** *Cell*
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2024
 - **Endothelial cell Notch signaling programs cancer-associated fibroblasts to promote tumor immune evasion.** *Research square*
Zhu, Y., Xiang, M., Brulois, K. F., Lazarus, N. H., Pan, J., Butcher, E. C.
2024
 - **Secreted IgM modulates IL-10 expression in B cells.** *Nature communications*
McGettigan, S. E., Aira, L. E., Kumar, G., Ballet, R., Butcher, E. C., Baumgarth, N., Debes, G. F.
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 - **Chemerin triggers migration of a CD8 T cell subset with natural killer cell functions.** *Molecular therapy : the journal of the American Society of Gene Therapy*
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 - **The small and large intestine contain related mesenchymal subsets that derive from embryonic Gli1+ precursors.** *Nature communications*
Pærregaard, S. I., Wulff, L., Schussek, S., Niss, K., Mörbe, U., Jendholm, J., Wendland, K., Andrusaitė, A. T., Brulois, K. F., Nibbs, R. J., Sitnik, K., Mowat, A. M., Butcher, et al
2023; 14 (1): 2307
 - **Development of follicular dendritic cells in lymph nodes depends on retinoic acid mediated signaling.** *Development (Cambridge, England)*
Koning, J. J., Rajaraman, A., Reijmers, R. M., Konijn, T., Pan, J., Ware, C. F., Butcher, E. C., Mebius, R. E.
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 - **The aryl hydrocarbon receptor regulates expression of mucosal trafficking receptor GPR15.** *Mucosal immunology*
Swaminathan, G., Nguyen, L. P., Namkoong, H., Pan, J., Haileselassie, Y., Patel, A., Ji, A. R., Mikhail, D. M., Dinh, T. T., Singh, H., Liao, B., Vazquez-Montesino, L. M., Butcher, et al
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- **A CD22-Shp1 phosphatase axis controls integrin beta7 display and B cell function in mucosal immunity.** *Nature immunology*
Ballet, R., Brennan, M., Brandl, C., Feng, N., Berri, J., Cheng, J., Ocon, B., Alborzian Deh Sheikh, A., Marki, A., Bi, Y., Abram, C. L., Lowell, C. A., Tsubata, et al
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- **Single-Cell Analysis of Blood-Brain Barrier Response to Pericyte Loss.** *Circulation research*
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- **Retinoic Acid Promotes Endothelial Cell Cycle Early G1 State to Enable Human Hemogenic Endothelial Cell Specification.** *Cell reports*
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- **Endothelial HIF-2alpha as a Key Endogenous Mediator Preventing Emphysema.** *American journal of respiratory and critical care medicine*
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- **Neutrophils Recirculate through Lymph Nodes to Survey Tissues for Pathogens.** *Journal of immunology (Baltimore, Md. : 1950)*
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- **Single-Cell Survey of Human Lymphatics Unveils Marked Endothelial Cell Heterogeneity and Mechanisms of Homing for Neutrophils.** *Immunity*
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2019
- **Analysis of blood endothelial cells from lymphoid tissues at the single cell level**
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- **Aged blood impairs hippocampal neural precursor activity and activates microglia via brain endothelial cell VCAM1** *NATURE MEDICINE*
Yousef, H., Czupalla, C. J., Lee, D., Chen, M. B., Burke, A. N., Zera, K. A., Zandstra, J., Berber, E., Lehallier, B., Mathur, V., Nair, R. V., Bonanno, L. N., Yang, et al
2019; 25 (6): 988+
- **Chemerin Suppresses Breast Cancer Growth by Recruiting Immune Effector Cells Into the Tumor Microenvironment** *FRONTIERS IN IMMUNOLOGY*
Pachynski, R. K., Wang, P., Salazar, N., Zheng, Y., Nease, L., Rosalez, J., Leong, W., Viridi, G., Rennie, K., Shin, W., Viet Nguyen, Butcher, E. C., Zabel, B. A.
2019; 10
- **Chemerin Suppresses Breast Cancer Growth by Recruiting Immune Effector Cells Into the Tumor Microenvironment.** *Frontiers in immunology*
Pachynski, R. K., Wang, P., Salazar, N., Zheng, Y., Nease, L., Rosalez, J., Leong, W. I., Viridi, G., Rennie, K., Shin, W. J., Nguyen, V., Butcher, E. C., Zabel, et al
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- **DGAT1 inhibits retinol-dependent regulatory T cell formation and mediates autoimmune encephalomyelitis.** *Proceedings of the National Academy of Sciences of the United States of America*
Graham, K. L., Werner, B. J., Moyer, K. M., Patton, A. K., Krois, C. R., Yoo, H. S., Tverskoy, M., LaJevic, M., Napoli, J. L., Sobel, R. A., Zabel, B. A., Butcher, E. C.
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- **Endothelial Hypoxia-Inducible Factor-2 Is Required for the Maintenance of Airway Microvasculature** *CIRCULATION*
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- **Aged blood impairs hippocampal neural precursor activity and activates microglia via brain endothelial cell VCAM1.** *Nature medicine*
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2019
- **Collagenase-based Single Cell Isolation of Primary Murine Brain Endothelial Cells Using Flow Cytometry.** *Bio-protocol*
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- **Collagenase-based Single Cell Isolation of Primary Murine Brain Endothelial Cells Using Flow Cytometry** *BIO-PROTOCOL*
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- **Papain-based Single Cell Isolation of Primary Murine Brain Endothelial Cells Using Flow Cytometry** *BIO-PROTOCOL*
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2018; 8 (22)
- **Endothelial HIF-2alpha is Required for the Maintenance of Airway Microvasculature.** *Circulation*
Jiang, X., Tian, W., Tu, A. B., Pasupneti, S., Shuffle, E., Dahms, P., Zhang, P., Cai, H., Dinh, T. T., Liu, B., Cain, C., Giaccia, A. J., Butcher, et al
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- **A Chimeric Antibody against ACKR3/CXCR7 in Combination with TMZ Activates Immune Responses and Extends Survival in Mouse GBM Models** *MOLECULAR THERAPY*
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2018; 115 (10): 2449–54
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OXFORD UNIV PRESS INC.2017: 1249
- **Breast tumor suppression mediated by therapeutic expression of chemerin, an innate leukocyte chemoattractant**
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- **Human CD22 Inhibits Murine B Cell Receptor Activation in a Human CD22 Transgenic Mouse Model.** *Journal of immunology (Baltimore, Md. : 1950)*
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- **Patterns of expression of factor VIII and von Willebrand factor by endothelial cell subsets in vivo** *BLOOD*
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Bscheider, M., Butcher, E. C.
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- **Generation and transcriptional programming of intestinal dendritic cells: essential role of retinoic acid** *MUCOSAL IMMUNOLOGY*
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Zeng, R., Bscheider, M., Lahl, K., Lee, M., Butcher, E. C.
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- **Expression of the leukocyte chemoattractant chemerin in human prostate tumors.**
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- **Role and species-specific expression of colon T cell homing receptor GPR15 in colitis** *NATURE IMMUNOLOGY*
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2015
- **A Novel CMKLR1 Small Molecule Antagonist Suppresses CNS Autoimmune Inflammatory Disease** *PLOS ONE*

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Lee, M., Kiefel, H., LaJevic, M. D., Macauley, M. S., O'Hara, E., Pan, J., Paulson, J. C., Butcher, E. C.
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 - **Transcriptional programs of lymphoid tissue capillary and high endothelium reveal control mechanisms for lymphocyte homing.** *Nature immunology*
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