

Stanford



Eugene Butcher

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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

We study the trafficking of white blood cells (lymphocytes, dendritic cells, monocytes, etc.), including their interactions with the endothelial lining of blood vessels at sites of leukocyte extravasation, and their chemotactic responses in tissues. These events regulate immune responses by controlling the access of leukocytes to sites of inflammatory or immune reaction in the body. We identified an array of adhesion molecules or "homing receptors" that lymphocytes use to recognize organ (and/or inflammation)-specific vascular ligands or "addressins". The vascular addressins and adhesion receptors control immune cell recruitment, and thus local immune and inflammatory responses. We showed that adhesion receptors act coordinately with G protein-linked chemoattractant receptors in a multi-step process that controls the specificity and provides combinatorial diversity in leukocyte trafficking.

A major focus of the group is on understanding the programming of targeted immune cell trafficking in homeostasis, in the immune response and in disease models (colitis, psoriasis, EAE, cancer). Genetic, antibody and small molecule-based approaches allow us to discover and define the mechanisms involved. Since blood cell interactions with the vasculature control recruitment, we are applying state-of-the art single cell (transcriptomic and mass cytometric) profiling of endothelial cells as well as immune cells to uncover the origin (stem or progenitor cells) and differentiation of leukocyte-recruiting endothelium, and the mechanisms of vascular and immune cell 'imprinting'. The studies have fundamental implications for the therapeutic regulation of immune responses.

Teaching

STANFORD ADVISEES

Postdoctoral Faculty Sponsor

Tanya Sharma, Menglan Xiang

Doctoral Dissertation Advisor (AC)

Mohammed Gaafarekhalifa

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

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

Publications

PUBLICATIONS

- **Single-Cell Analysis of Blood-Brain Barrier Response to Pericyte Loss.** *Circulation research*
Andaloussi Mae, M., He, L., Nordling, S., Vazquez-Liebanas, E., Nahar, K., Jung, B., Li, X., Tan, B. C., Foo, J. C., Cazenave Gassiot, A., Wenk, M., Zarb, Y., Lavina, et al
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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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2020; 33 (9): 108465
- **Endothelial HIF-2alpha as a Key Endogenous Mediator Preventing Emphysema.** *American journal of respiratory and critical care medicine*
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2020
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- **Retinoic Acid and Lymphotoxin Signaling Promote Differentiation of Human Intestinal M Cells.** *Gastroenterology*
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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
- **Single-Cell Survey of Human Lymphatics Unveils Marked Endothelial Cell Heterogeneity and Mechanisms of Homing for Neutrophils.** *Immunity*

- Takeda, A., Hollmen, M., Dermadi, D., Pan, J., Brulois, K. F., Kaukonen, R., Lonngberg, T., Bostrom, P., Koskivuo, I., Irjala, H., Miyasaka, M., Salmi, M., Butcher, et al
2019
- **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
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2019
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2018
 - **Gut-Selective Integrin-Targeted Therapies for Inflammatory Bowel Disease** *JOURNAL OF CROHNS & COLITIS*
Lamb, C. A., O'Byrne, S., Keir, M. E., Butcher, E. C.
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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*
Salazar, N., Carlson, J. C., Huang, K., Zheng, Y., Oderup, C., Gross, J., Jang, A. D., Burke, T. M., Lewen, S., Scholz, A., Huang, S., Nease, L., Kosek, et al
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- **Generation and transcriptional programming of intestinal dendritic cells: essential role of retinoic acid** *MUCOSAL IMMUNOLOGY*
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2016; 9 (1): 183-193
- **Generation and transcriptional programming of intestinal dendritic cells: essential role of retinoic acid.** *Mucosal immunology*
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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
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- **Orphan chemoattractant receptor GPR15 mediates dendritic epidermal T-cell recruitment to the skin.** *European journal of immunology*
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