

Stanford



Laren Becker

Assistant Professor of Medicine (Gastroenterology)

Medicine - Gastroenterology & Hepatology

CLINICAL OFFICES

- **Stanford Gastroenterology and Digestive Health Clinic**

450 Broadway St

Pav D 2nd Fl Pod 2 and 3

Redwood City, CA 94063

Tel (650) 736-5555 **Fax** (650) 498-6323

- **Medical Specialties**

300 Pasteur Dr A160

Stanford, CA 94305

Tel (650) 723-6961 **Fax** (650) 725-8418

- **VA Palo Alto Health Care System Dept of Gastroenterology**

3801 Miranda Ave

Palo Alto, CA 94304

Tel (650) 493-5000 **Fax** (650) 849-0255

ACADEMIC CONTACT INFORMATION

- **Alternate Contact**

Felicia Juse-Kelly - Administrative Associate

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Bio

BIO

I am a physician-scientist in the Division of Gastroenterology at Stanford University. My clinical and research interest has been in neurogastroenterology. Specifically, my research has been exploring the interplay between immune cells and the enteric nervous system, and evaluating how perturbations of this interaction as a result of aging disrupts gastrointestinal neuromuscular function. Ultimately, my hope is that insights from this research provide novel therapies for treating patients with motility disorders like constipation and irritable bowel syndrome.

CLINICAL FOCUS

- Gastroenterology
- Neurogastroenterology

ACADEMIC APPOINTMENTS

- Assistant Professor - University Medical Line, Medicine - Gastroenterology & Hepatology

ADMINISTRATIVE APPOINTMENTS

- Assistant Professor of Medicine (Gastroenterology and Hepatology), Stanford University, (2021- present)
- Instructor in Medicine, Stanford University, (2009-2021)

- Clinical and Research Fellow in Gastroenterology, Beth Israel Deaconess, Harvard Medical School, (2005-2009)

HONORS AND AWARDS

- GEMSSTAR Scholar, NIA/NIH (2013-2015)
- Neurogastroenterology & Motility Distinguished Abstract Plenary, DDW (2013)
- Fellowship to Faculty Transition Award, AGA (2012)
- Albert Einstein College of Medicine Medical Scientist Training Program, MSTP (1994)
- Golden Key National Honor Society, University of California, Berkeley (1994)
- Phi Beta Kappa, University of California, Berkeley (1994)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Member, American Gastroenterologic Association (2005 - present)

PROFESSIONAL EDUCATION

- Medical Education: Albert Einstein College of Medicine (2002) NY
- Fellowship: Beth Israel Deaconess Medical Center Dept of Gastroenterology (2009) MA
- Residency: Beth Israel Deaconess Medical Center Internal Medicine Residency (2005) MA
- Board Certification: Gastroenterology, American Board of Internal Medicine (2009)

Teaching

STANFORD ADVISEES

Doctoral Dissertation Co-Advisor (NonAC)

Keiramarie Robertson

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Gastroenterology & Hepatology (Fellowship Program)

Publications

PUBLICATIONS

- **Dysbiosis-Induced Secondary Bile Acid Deficiency Promotes Intestinal Inflammation.** *Cell host & microbe*
Sinha, S. R., Haileselassie, Y., Nguyen, L. P., Tropini, C., Wang, M., Becker, L. S., Sim, D., Jarr, K., Spear, E. T., Singh, G., Namkoong, H., Bittinger, K., Fischbach, et al
2020
- **The esophageal mucosal barrier in health and disease: mucosal pathophysiology and protective mechanisms.** *Annals of the New York Academy of Sciences*
Gyawali, C. P., Sonu, I. n., Becker, L. n., Sarosiek, J. n.
2020
- **Gastric antral vascular ectasia in systemic sclerosis: Association with anti-RNA polymerase III and negative anti-nuclear antibodies.** *Seminars in arthritis and rheumatism*
Serling-Boyd, N. n., Chung, M. P., Li, S. n., Becker, L. n., Fernandez-Becker, N. n., Clarke, J. n., Fiorentino, D. n., Chung, L. n.
2020; 50 (5): 938–42
- **Mass cytometry reveals systemic and local immune signatures that distinguish inflammatory bowel diseases.** *Nature communications*
Rubin, S. J., Bai, L., Haileselassie, Y., Garay, G., Yun, C., Becker, L., Streett, S. E., Sinha, S. R., Habtezion, A.
2019; 10 (1): 2686
- **Age-Related Changes in Gut Microbiota Alter Phenotype of Muscularis Macrophages and Disrupt Gastrointestinal Motility.** *Cellular and molecular gastroenterology and hepatology*

- Becker, L., Spear, E. T., Sinha, S. R., Haileselassie, Y., Habtezion, A.
2019; 7 (1): 243
- **Advances in Enteric Neurobiology: The "Brain" in the Gut in Health and Disease.** *The Journal of neuroscience : the official journal of the Society for Neuroscience*
Kulkarni, S., Ganz, J., Bayrer, J., Becker, L., Bogunovic, M., Rao, M.
2018; 38 (44): 9346–54
 - **Multi-Organ RNA-Sequencing of Patients with Systemic Sclerosis (SSc) Finds That Intrinsic Subsets Are Conserved across Organ Systems**
Mehta, B. K., Franks, J., Wang, Y., Cai, G., Toledo, D. M., Wood, T. A., Archambault, K. A., Kosarek, N., Kolstad, K. D., Stark, M., Valenzuela, A., Fiorentino, D., Fernandez-Becker, et al
WILEY.2018
 - **Identification of Risk Factors for Gastric Antral Vascular Ectasia (GAVE) Among Systemic Sclerosis Patients**
Serling-Boyd, N., Li, S., Fiorentino, D., Becker, L., Fernandez-Becker, N., Clarke, J., Chung, L.
WILEY.2018
 - **DNA methylation, through DNMT1, has an essential role in the development of gastrointestinal smooth muscle cells and disease** *CELL DEATH & DISEASE*
Jorgensen, B. G., Berent, R. M., Ha, S., Horiguchi, K., Sasse, K. C., Becker, L. S., Ro, S.
2018; 9: 474
 - **Multi-Organ RNA-Sequencing of Patients with Systemic Sclerosis (SSc) Finds That Intrinsic Subsets Are Conserved across Organ Systems**
Mehta, B. K., Franks, J., Cai, G., Toledo, D., Wood, T. A., Archambault, K. A., Kosarek, N., Kolstad, K., Stark, M., Valenzuela, A., Fiorentino, D., Fernandez-Becker, N., Becker, et al
WILEY.2017
 - **Adult enteric nervous system in health is maintained by a dynamic balance between neuronal apoptosis and neurogenesis** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Kulkarni, S., Micci, M., Leser, J., Shin, C., Tang, S., Fu, Y., Liu, L., Li, Q., Saha, M., Li, C., Enikolopov, G., Becker, L., Rakhilin, et al
2017; 114 (18): E3709-E3718
 - **Age-dependent shift in macrophage polarisation causes inflammation-mediated degeneration of enteric nervous system.** *Gut*
Becker, L., Nguyen, L., Gill, J., Kulkarni, S., Pasricha, P. J., Habtezion, A.
2017
 - **Intestinal pseudo-obstruction in patients with systemic sclerosis: an analysis of the Nationwide Inpatient Sample.** *Rheumatology*
Valenzuela, A., Li, S., Becker, L., Fernandez-Becker, N., Khanna, D., Nguyen, L., Chung, L.
2016; 55 (4): 654-658
 - **Serum Response Factor Is Essential for Prenatal Gastrointestinal Smooth Muscle Development and Maintenance of Differentiated Phenotype.** *Journal of neurogastroenterology and motility*
Park, C., Lee, M. Y., Park, P. J., Ha, S. E., Berent, R. M., Fuchs, R., Miano, J. M., Becker, L. S., Sanders, K. M., Ro, S.
2015; 21 (4): 589-602
 - **Ex Vivo Neurogenesis within Enteric Ganglia Occurs in a PTEN Dependent Manner** *PLOS ONE*
Becker, L., Peterson, J., Kulkarni, S., Pasricha, P. J.
2013; 8 (3)
 - **Divergent fate and origin of neurosphere-like bodies from different layers of the gut** *AMERICAN JOURNAL OF PHYSIOLOGY-GASTROINTESTINAL AND LIVER PHYSIOLOGY*
Becker, L., Kulkarni, S., Tiwari, G., Micci, M., Pasricha, P. J.
2012; 302 (9): G958-G965
 - **Stem cell transplantation in neurodegenerative disorders of the gastrointestinal tract: future or fiction?** *GUT*
Kulkarni, S., Becker, L., Pasricha, P. J.
2012; 61 (4): 613-621
 - **Gut-derived factors promote neurogenesis of CNS-neural stem cells and nudge their differentiation to an enteric-like neuronal phenotype** *AMERICAN JOURNAL OF PHYSIOLOGY-GASTROINTESTINAL AND LIVER PHYSIOLOGY*
Kulkarni, S., Zou, B., Hanson, J., Micci, M., Tiwari, G., Becker, L., Kaiser, M., Xie, X. (., Pasricha, P. J.
2011; 301 (4): G644-G655