

Stanford



Kristen Rumer

- Postdoctoral Research Fellow, General Surgery
- Resident in Surgery - General Surgery

Bio

CLINICAL FOCUS

- General Surgery
- Residency

HONORS AND AWARDS

- NIH T32 Fellowship, Perioperative immune landscape in inflammatory bowel disease, Stanford University, Dpt. of Anesthesiology (7/2019-7/2020)
- WHSDM Grant, Sex differences in immune response to surgery among patients with IBD, Stanford University, Women's Health and Sex Differences in Medicine (2018-2019)
- Stanford Accelerated Surgeon Scientist, Stanford General Surgery Residency (2013-2018)
- Member, Alpha Omega Alpha Honor Medical Society (2012-current)
- Medical Scientist Training Program Scholar, University of Colorado (2005-2013)
- Siglec-6 and Leptin Effects on Early Placental Development, T32 Fellowship, Colorado Clinical and Translational Sciences Institute (2008)
- Prehabilitation in Kidney Transplant to Decrease Frailty and Improve Outcomes, Society Grant, Stanford Society of Physician Scientists (2015)

PROFESSIONAL EDUCATION

- Doctor of Philosophy, University of Colorado Denver (2011)
- Doctor of Medicine, University of Colorado Denver (2013)
- Bachelor of Arts, University of Colorado Boulder (1998)

STANFORD ADVISORS

- Brice Gaudilliere, Postdoctoral Research Mentor
- Cindy Kin, Postdoctoral Faculty Sponsor

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Immunology of Inflammatory Bowel Disease in the Perioperative Period

Surgical Outcomes in Inflammatory Bowel Disease

Fitness, Frailty and Prehabilitation of Surgical Patients

Publications

PUBLICATIONS

- **Surgery, Stomas, and Anxiety and Depression in Inflammatory Bowel Disease: A Retrospective Cohort Analysis of Privately Insured Patients.** *Colorectal disease : the official journal of the Association of Coloproctology of Great Britain and Ireland*
Sceats, L. A., Dehghan, M. S., Rumer, K. K., Trickey, A., Morris, A. M., Kin, C.
2019
- **DEEP IMMUNE PROFILE OF PREOPERATIVE GLUCOCORTICOID ADMINISTRATION IN PATIENTS UNDERGOING SURGERY**
Rumer, K., Ganio, E. A., Stanley, N., Einhaus, J., Tsai, A. S., Culos, A., Fallazadeh, R., Lindberg-Larsen, V., Kehlet, H., Angst, M., Aghaeepour, N., Gaudilliere, B.
LIPPINCOTT WILLIAMS & WILKINS.2019: 140
- **Prehabilitation in our most frail surgical patients: are wearable fitness devices the next frontier?** *Current opinion in organ transplantation*
Rumer, K. K., Saraswathula, A., Melcher, M. L.
2016; 21 (2): 188-193
- **Maternal and fetal alternative complement pathway activation in early severe preeclampsia.** *American journal of reproductive immunology (New York, N.Y. : 1989)*
Hoffman, M. C., Rumer, K. K., Kramer, A., Lynch, A. M., Winn, V. D.
2014; 71 (1): 55-60
- **Siglec-6 expression is increased in placentas from pregnancies complicated by preterm preeclampsia.** *Reproductive sciences (Thousand Oaks, Calif.)*
Rumer, K. K., Uyenishi, J., Hoffman, M. C., Fisher, B. M., Winn, V. D.
2013; 20 (6): 646-53
- **Siglec-6 is expressed in gestational trophoblastic disease and affects proliferation, apoptosis and invasion.** *Endocrine-related cancer*
Rumer, K. K., Post, M. D., Larivee, R. S., Zink, M., Uyenishi, J., Kramer, A., Teoh, D., Bogart, K., Winn, V. D.
2012; 19 (6): 827-40
- **Pregnancy amelioration of arthritis in SKG mice corresponds with alterations in serum amyloid A3 levels.** *American journal of clinical and experimental immunology*
Shaw, L. A., Stefanski, A. L., Peterson, L. K., Rumer, K. K., Vondracek, A., Phang, T. L., Sakaguchi, S., Winn, V. D., Dragone, L. L.
2012; 1 (1): 12-19
- **Severe Preeclampsia-Related Changes in Gene Expression at the Maternal-Fetal Interface Include Sialic Acid-Binding Immunoglobulin-Like Lectin-6 and Pappalysin-2** *ENDOCRINOLOGY*
Winn, V. D., Gormley, M., Paquet, A. C., Kjaer-Sorensen, K., Kramer, A., Rumer, K. K., Haimov-Kochman, R., Yeh, R., Overgaard, M. T., Varki, A., Oxvig, C., Fisher, S. J.
2009; 150 (1): 452-62
- **Remodeling of the mammary microenvironment after lactation promotes breast tumor cell metastasis.** *The American journal of pathology*
McDaniel, S. M., Rumer, K. K., Biroc, S. L., Metz, R. P., Singh, M., Porter, W., Schedin, P.
2006; 168 (2): 608-20
- **Global regulation of post-translational modifications on core histones.** *The Journal of biological chemistry*
Galasinski, S. C., Louie, D. F., Gloor, K. K., Resing, K. A., Ahn, N. G.
2002; 277 (4): 2579-88
- **Phosphorylation and subcellular redistribution of high mobility group proteins 14 and 17, analyzed by mass spectrometry.** *Protein science : a publication of the Protein Society*
Louie, D. F., Gloor, K. K., Galasinski, S. C., Resing, K. A., Ahn, N. G.
2000; 9 (1): 170-79
- **Constitutively active mitogen-activated protein kinase kinase 1 (MAPKK1) and MAPKK2 mediate similar transcriptional and morphological responses.** *Cell growth & differentiation : the molecular biology journal of the American Association for Cancer Research*
Mansour, S. J., Candia, J. M., Gloor, K. K., Ahn, N. G.
1996; 7 (2): 243-50