



## Joanna E. Liliental, PhD

Director, TRAM, M-TRAM, TASC, Med/TRAM

### CONTACT INFORMATION

- **TASC Lab Location**

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### Bio

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#### CURRENT ROLE AT STANFORD

Executive Director, Master's in TRAM (M-TRAM)

<https://med.stanford.edu/tram/masters-program.html>

Director, Translational Applications Service Center (TASC)

<http://tasc.stanford.edu>

Associate Director, Translational Research and Applied Medicine (TRAM) Program

<http://tram.stanford.edu>

Senior Research Scientist, Stanford School of Medicine

Instructor of University Courses: MED221, MED121, MED212A

Member, Stanford Cancer Institute

#### HONORS AND AWARDS

- National Cancer Institute Research Training Grant (PHS Grant Number CA09302), DHHS, National Cancer Institute (2004-2009)
- NIH Tumor Immunology Institutional Training Grant (NIH CA - 09120), NIH (1996, 1997, 2000)
- College of Letters and Science Dean's Honor List, University of California - Berkeley (1988)

#### EDUCATION AND CERTIFICATIONS

- PhD, University of California - Los Angeles (2000)
- BS, University of California - Berkeley (1988)

## LINKS

- TRAM website: <http://tram.stanford.edu>

## Professional

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### PROFESSIONAL INTERESTS

#### TRAM PROGRAM:

The Translational Research and Applied Medicine (TRAM) Program is designed to focus on removing barriers and communication gaps between scientists and clinicians, and bridging clinical and basic research is paramount to our mission. TRAM initiatives include didactic lectures and symposia, research facilities and pilot grants that support translational medicine projects of faculty, clinical fellows, residents and students. Our program was established to provide an infrastructure to rapidly translate novel genomic/proteomic, nanoscale and imaging research discoveries from the laboratory to the clinic and facilitate bench-to-bedside development of cellular therapies. We support diverse translational research projects that lead to innovative approaches to the prevention, early detection, diagnosis and treatment of various human diseases.

#### TASC:

Translational Applications Service Center (TASC) facility is a fee-for-service research laboratory serving the Stanford University scientific community, as well as outside investigators. It offers a variety of analytical services, technical and scientific consulting and training, as well as pay-per-use research equipment, which allow investigators shared access to technologies that support innovative research in translational medicine. By providing centralized oversight and infrastructure for conducting translational research studies, as well as access to high-quality, cost-efficient, state-of-the-art proteomic, molecular and genomic technologies, TASC's overall mission is to serve as a comprehensive resource for accelerating the pace of advances in patient therapy and diagnosis by enhancing basic research in the early stages of translation to the clinical setting.

## Publications

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### PUBLICATIONS

- **Peripheral complement C4 protein in schizophrenia: Association with gene copy number and immune cell subtypes.** *Proceedings of the National Academy of Sciences of the United States of America*  
Kalinowski, A., Macaubas, C., Guo, H., Anker, L. A., Wakeham, D. E., Ho, M., Pattni, R., Bayram, B., Sharma, S., Liliental, J., Yoon, J. H., Mellins, E. D., Steinman, et al  
2026; 123 (20): e2536376123
- **High Molecular Weight Isoforms of Thymic Stromal Lymphopoietin Correlate with Presence and Severity of Acute Graft Versus Host Disease**  
Shiraz, P., Louloudis, I., Liliental, J. A., Muffly, L. S., Kennedy, V. E., Patel, S., Negrin, R. S., Lowsky, R., Arai, S., Johnston, L., Rezvani, A. R., Weng, W., Bharadwaj, et al  
ELSEVIER SCIENCE INC.2026: S46-S47
- **Evaluating thymic stromal lymphopoietin (TSLP) as a biomarker in acute graft versus host disease**  
Shiraz, P., Louloudis, L., Liliental, J., Patel, S., Jensen, A., Fonseca, S., Le, K., Diallo, B., Pavlova, A., Arai, S., Negrin, R., Rezvani, A., Johnston, et al  
ELSEVIER.2025: 586-587
- **Author Correction: Community assessment of methods to deconvolve cellular composition from bulk gene expression.** *Nature communications*  
White, B. S., de Reyniès, A., Newman, A. M., Waterfall, J. J., Lamb, A., Petitprez, F., Lin, Y., Yu, R., Guerrero-Gimenez, M. E., Domanskyi, S., Monaco, G., Chung, V., Banerjee, et al  
2024; 15 (1): 9783
- **Community assessment of methods to deconvolve cellular composition from bulk gene expression.** *Nature communications*

- White, B. S., de Reyniès, A., Newman, A. M., Waterfall, J. J., Lamb, A., Petitprez, F., Lin, Y., Yu, R., Guerrero-Gimenez, M. E., Domanskyi, S., Monaco, G., Chung, V., Banerjee, et al  
2024; 15 (1): 7362
- **Increased activation product of complement 4 protein in plasma of individuals with schizophrenia.** *Translational psychiatry*  
Kalinowski, A., Liliental, J., Anker, L. A., Linkovski, O., Culbertson, C., Hall, J. N., Pattni, R., Sabatti, C., Noordsy, D., Hallmayer, J. F., Mellins, E. D., Ballon, J. S., O'Hara, et al  
2021; 11 (1): 486
  - **DEVELOPING A LIVED EXPERIENCE ADVISORY COUNCIL IN AN ACADEMIC EARLY INTERVENTION FOR PSYCHOSIS CLINIC.**  
Eisen, K., Lean, M., Ballon, J., Zepp, C., Liliental, J., Hardy, K.  
OXFORD UNIV PRESS INC.2021: S140
  - **Multiregion Quantification of Extracellular Signal-regulated Kinase Activity in Renal Cell Carcinoma.** *European urology oncology*  
Hoerner, C. R., Massoudi, R., Metzner, T. J., Stell, L., O'Rourke, J. J., Kong, C. S., Liliental, J. E., Brooks, J. D., Sabatti, C., Leppert, J. T., Fan, A. C.  
2018
  - **A distinct evolution of the T-cell repertoire categorizes treatment refractory gastrointestinal acute graft-versus-host disease.** *Blood*  
Meyer, E. H., Hsu, A. R., Liliental, J., Lohr, A., Florek, M., Zehnder, J. L., Strober, S., Lavori, P., Miklos, D. B., Johnson, D. S., Negrin, R. S.  
2013; 121 (24): 4955-4962
  - **A distinct evolution of the T-cell repertoire categorizes treatment refractory gastrointestinal acute graft-versus-host disease** *BLOOD*  
Meyer, E. H., Hsu, A. R., Liliental, J., Loehr, A., Florek, M., Zehnder, J. L., Strober, S., Lavori, P., Miklos, D. B., Johnson, D. S., Negrin, R. S.  
2013; 121 (24): 4955-4962
  - **The Expansion of Gastrointestinal-Associated alpha beta T Cell Clones in Peripheral Blood Associates with Severe Steroid Refractory GVHD** *BMT Tandem Meetings*  
Meyer, E. H., Liliental, J. A., Florek, M., Lohr, A., Hsu, A., Johnson, D., Lavori, P., Zehnder, J. L., Miklos, D. B., Strober, S., Negrin, R.  
ELSEVIER SCIENCE INC.2013: S334-S335
  - **The Expansion of Gastrointestinal-associated alpha beta T Cell Clones in Peripheral Blood Over Time Is a Disease Feature of Severe Acute Graft-Versus-Host Disease** *54th Annual Meeting and Exposition of the American-Society-of-Hematology (ASH)*  
Meyer, E. H., Liliental, J., Florek, M., Loehr, A., Hsu, A., Johnson, D. S., Miklos, D. B., Zehnder, J. L., Negrin, R. S.  
AMER SOC HEMATOLOGY.2012
  - **Regulation of transcription of hypoxia-inducible factor-1 alpha (HIF-1 alpha) by heat shock factors HSF2 and HSF4** *ONCOGENE*  
Chen, R., Liliental, J. E., Kowalski, P. E., Lu, Q., Cohen, S. N.  
2011; 30 (22): 2570-2580
  - **Genetic deletion of the Pten tumor suppressor gene promotes cell motility by activation of Rac1 and Cdc42 GTPases** *CURRENT BIOLOGY*  
Liliental, J., Moon, S. Y., Lesche, R., Mamillapalli, R., Li, D. M., Zheng, Y., Sun, H., Wu, H.  
2000; 10 (7): 401-404
  - **PTEN modulates cell cycle progression and cell survival by regulating phosphatidylinositol 3,4,5,-trisphosphate and Akt protein kinase B signaling pathway** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*  
Sun, H., Lesche, R., Li, D. M., Liliental, J., Zhang, H., Gao, J., Gavrilo, N., Mueller, B., Liu, X., Wu, H.  
1999; 96 (11): 6199-6204
  - **Rack1, a receptor for activated protein kinase C, interacts with integrin beta subunit** *JOURNAL OF BIOLOGICAL CHEMISTRY*  
Liliental, J., Chang, D. D.  
1998; 273 (4): 2379-2383
  - **Native gel analysis of ribonucleoprotein complexes from a Leishmania tarentolae mitochondrial extract** *MOLECULAR AND BIOCHEMICAL PARASITOLOGY*  
Peris, M., Simpson, A. M., Grunstein, J., Liliental, J. E., Frech, G. C., Simpson, L.  
1997; 85 (1): 9-24
  - **T cell receptor usage by cytotoxic T lymphocytes against autologous human melanoma** *ANTICANCER RESEARCH*  
Leong, S. P., Liliental, J., Krams, S. M., Zhou, Y. M., GRANBERRY, M. E., Martinez, O. M.  
1996; 16 (6B): 3355-3361