



## John S. Tamaresis, PhD, MS

Biostatistician, Biomedical Data Science

### Bio

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#### BIO

Dr. Tamaresis joined the Stanford University School of Medicine in Summer 2012. He earned the Ph.D. in Applied Mathematics from the University of California, Davis and received the M.S. in Statistics from the California State University, East Bay. He has conducted research in computational biology as a postdoctoral scholar at the University of California, Merced and as a biostatistician at the University of California, San Francisco.

As a statistician, Dr. Tamaresis has developed and validated a highly accurate statistical biomarker classifier for gynecologic disease by applying multivariate techniques to a large genomic data set. His statistical consultations have produced data analyses for published research studies and analysis plans for novel research proposals in grant applications. As an applied mathematician, Dr. Tamaresis has created computational biology models and devised numerical methods for their solution. He devised a probabilistic model to study how the number of binding sites on a novel therapeutic molecule affected contact time with cancer cells to advise medical researchers about its design. For his doctoral dissertation, he created and analyzed the first mathematical system model for a mechanosensory network in vascular endothelial cells to investigate the initial stage of atherosclerotic disease.

### Publications

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#### PUBLICATIONS

- **Outcomes in large B-cell lymphoma progressing after axicabtagene ciloleucel (Axi-cel): Results from the US Lymphoma CAR-T Consortium.**  
Spiegel, J. Y., Dahiya, S., Jain, M. D., Nastoupil, L. J., Ghobadi, A., Lin, Y., Lunning, M., Reagan, P., McGuirk, J., Deol, A., Munoz, J., Locke, F., Neelapu, et al  
AMER SOC CLINICAL ONCOLOGY.2019
- **Nonmyeloablative TLI-ATG conditioning for allogeneic transplantation: mature follow-up from a large single-center cohort.** *Blood advances*  
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- **Nonmyeloablative Allogeneic Transplantation Using TLI-ATG Conditioning for Lymphoid and Myeloid Malignancies: Mature Follow-up from a Large, Single Institution Cohort**  
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- **High human herpesvirus 6 viral load in pediatric allogeneic hematopoietic stem cell transplant patients is associated with detection in end organs and high mortality** *PEDIATRIC TRANSPLANTATION*  
Winestone, L. E., Punn, R., Tamaresis, J. S., Buckingham, J., Pinsky, B. A., Waggoner, J. J., Kharbanda, S.  
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- **Local estrogen axis in the human bone microenvironment regulates estrogen receptor-positive breast cancer cells.** *Breast cancer research : BCR*  
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- **Updated analysis: central venous access device infection rates in an expanded cohort of paediatric patients with severe haemophilia receiving prophylactic recombinant tissue plasminogen activator.** *Haemophilia*  
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- **Breast Cancer Cell Colonization of the Human Bone Marrow Adipose Tissue Niche** *NEOPLASIA*  
Templeton, Z. S., Lie, W., Wang, W., Rosenberg-Hasson, Y., Alluri, R. V., Tamaresis, J. S., Bachmann, M. H., Lee, K., Maloney, W. J., Contag, C. H., King, B. L.  
2015; 17 (12): 849-861
- **Reading abilities in school-aged preterm children: a review and meta-analysis** *DEVELOPMENTAL MEDICINE AND CHILD NEUROLOGY*  
Kovachy, V. N., Adams, J. N., Tamaresis, J. S., Feldman, H. M.  
2015; 57 (5): 410-419
- **A Randomized Clinical Trial of Therapeutic Hypothermia Mode during Transport for Neonatal Encephalopathy.** *journal of pediatrics*  
Akula, V. P., Joe, P., Thusu, K., Davis, A. S., Tamaresis, J. S., Kim, S., Shimotake, T. K., Butler, S., Honold, J., Kuzniewicz, M., Desandre, G., Bennett, M., Gould, et al  
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- **A randomized clinical trial of therapeutic hypothermia mode during transport for neonatal encephalopathy.** *journal of pediatrics*  
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- **Regional variation in antenatal corticosteroid use: a network-level quality improvement study.** *Pediatrics*  
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- **Coculturing human endometrial epithelial cells and stromal fibroblasts alters cell-specific gene expression and cytokine production** *FERTILITY AND STERILITY*  
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- **A model for shear stress sensing and transmission in vascular endothelial cells** *BIOPHYSICAL JOURNAL*  
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