



## Adithan Kandasamy

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### Bio

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#### STANFORD ADVISORS

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### Publications

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#### PUBLICATIONS

- **Uncertainty-aware traction force microscopy.** *PLoS computational biology*  
Kandasamy, A., Yeh, Y. T., Serrano, R., Mercola, M., Del Alamo, J. C.  
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- **Tunable photoinitiated hydrogel microspheres for quantifying cell-generated forces in complex three-dimensional environments.** *Acta biomaterialia*  
Garcia-Herreros, A., Yeh, Y. T., Tu, Y., Kandasamy, A., Del Alamo, J. C., Criado-Hidalgo, E.  
2025; 205: 521-536
- **FMNL1 and mDia1 promote efficient T cell migration through complex environments via distinct mechanisms.** *Frontiers in immunology*  
Sigler, A. L., Thompson, S. B., Ellwood-Digel, L., Kandasamy, A., Michaels, M. J., Thumkeo, D., Narumiya, S., Del Alamo, J. C., Jacobelli, J.  
2024; 15: 1467415
- **Open-source algorithm for high-throughput, non-contact elasticity measurements of iPSC-derived cardiomyocytes**  
Kandasamy, A., Serrano, R., Mercola, M., Del Alamo, J.  
CELL PRESS.2024: 403A
- **Distinct platelet F-actin patterns and traction forces on von Willebrand factor versus fibrinogen.** *Biophysical journal*  
Mollica, M. Y., Beussman, K. M., Kandasamy, A., Rodríguez, L. M., Morales, F. R., Chen, J., Manohar, K., Del Álamo, J. C., López, J. A., Thomas, W. E., Sniadecki, N. J.  
2023; 122 (18): 3738-3748
- **Biomechanical interactions of Schistosoma mansoni eggs with vascular endothelial cells facilitate egg extravasation.** *PLoS pathogens*  
Yeh, Y. T., Skinner, D. E., Criado-Hidalgo, E., Chen, N. S., Garcia-De Herreros, A., El-Sakkary, N., Liu, L., Zhang, S., Kandasamy, A., Chien, S., Lasheras, J. C., Del Álamo, J. C., Caffrey, et al  
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- **The interplay between matrix deformation and the coordination of turning events governs directed neutrophil migration in 3D matrices.** *Science advances*  
François, J., Kandasamy, A., Yeh, Y. T., Schwartz, A., Ayala, C., Meili, R., Chien, S., Lasheras, J. C., Del Álamo, J. C.  
2021; 7 (29)