

# Stanford

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## Paul Vorster

Lecturer, Bioengineering  
Bioengineering

### Bio

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#### ACADEMIC APPOINTMENTS

- Lecturer, Bioengineering
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### Teaching

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#### COURSES

##### 2019-20

- Fundamentals for Engineering Biology Lab: BIOE 44 (Aut, Spr)
- Senior Capstone Design I: BIOE 141A (Aut)
- Senior Capstone Design II: BIOE 141B (Win)
- Systems Physiology and Design: BIOE 103 (Spr)
- Systems Physiology and Design: BIOE 103B (Spr)

##### 2018-19

- Fundamentals for Engineering Biology Lab: BIOE 44 (Aut, Spr)
- Systems Physiology and Design: BIOE 103 (Spr)
- Systems Physiology and Design: BIOE 103B (Spr)

##### 2016-17

- The Cancer Problem: Causes, Treatments, and Prevention: THINK 23 (Spr)

### Publications

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#### PUBLICATIONS

- **LIN54 homolog Mip120 controls two aspects of oogenesis.** *Biology open*  
Cheng, M., Andrejka, L., Vorster, P. J., Hinman, A., Lipsick, J. S.  
2017
- **A Dichotomy in Cortical Actin and Chemotactic Actin Activity between Human Memory and Naive T Cells Contributes to Their Differential Susceptibility to HIV-1 Infection** *JOURNAL OF BIOLOGICAL CHEMISTRY*  
Wang, W., Guo, J., Yu, D., Vorster, P. J., Chen, W., Wu, Y.  
2012; 287 (42): 35455-35469
- **Involvement of LIM kinase 1 in actin polarization in human CD4 T cells.** *Communicative & integrative biology*

Xu, X., Guo, J., Vorster, P., Wu, Y.  
2012; 5 (4): 381-383

- **Genetic Dissection of Acute Ethanol Responsive Gene Networks in Prefrontal Cortex: Functional and Mechanistic Implications** *PLOS ONE*  
Wolen, A. R., Phillips, C. A., Langston, M. A., Putman, A. H., Vorster, P. J., Bruce, N. A., York, T. P., Williams, R. W., Miles, M. F.  
2012; 7 (4)
- **LIM Kinase 1 Modulates Cortical Actin and CXCR4 Cycling and Is Activated by HIV-1 to Initiate Viral Infection** *JOURNAL OF BIOLOGICAL CHEMISTRY*  
Vorster, P. J., Guo, J., Yoder, A., Wang, W., Zheng, Y., Xu, X., Yu, D., Spear, M., Wu, Y.  
2011; 286 (14)
- **Synthesis and characterization of hydrogel particles containing Cibacron Blue F3G-A.** *Colloids and surfaces. A, Physicochemical and engineering aspects*  
Patanarut, A., Luchini, A., Botterell, P. J., Mohan, A., Longo, C., Vorster, P., Petricoin, E. F., Liotta, L. A., Bishop, B.  
2010; 362 (1-3): 8-19
- **HIV envelope-CXCR4 signaling activates cofilin to overcome cortical actin restriction in resting CD4 T cells** *CELL*  
Yoder, A., Yu, D., Dong, L., Iyer, S. R., Xu, X., Kelly, J., Liu, J., Wang, W., Vorster, P. J., Agulto, L., Stephany, D. A., Cooper, J. N., Marsh, et al  
2008; 134 (5): 782-792