



Christina Hueschen

Postdoctoral Scholar, Chemical Engineering

Bio

HONORS AND AWARDS

- Career Award at the Scientific Interface (CASI), Burroughs Wellcome Fund (2021)
- Damon Runyon Postdoctoral Fellowship, Damon Runyon Foundation (2019)

PROFESSIONAL EDUCATION

- Doctor of Philosophy, University of California San Francisco (2018)

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

physical biology; parasite biology; active matter physics; cellular biophysics; biomechanics; cell, developmental, and organismal biology

Publications

PUBLICATIONS

- **Wildebeest Herds on Rolling Hills: Flocking on Arbitrary Curved Surfaces** *arXiv*
Hueschen, C. L., Dunn, A. R., Phillips, R.
2022
- **Emergent Actin Flows Explain Diverse Parasite Gliding Modes** *bioRxiv*
Hueschen, C. L., Segev Zarko, L., Chen, J., LeGros, M. A., Larabell, C. A., Boothroyd, J. C., Phillips, R., Dunn, A. R.
2022
- **Microtubule End-Clustering Maintains a Steady-State Spindle Shape** *CURRENT BIOLOGY*
Hueschen, C. L., Galstyan, V., Amouzgar, M., Phillips, R., Dumont, S.
2019; 29 (4): 700-+
- **NuMA recruits dynein activity to microtubule minus-ends at mitosis** *ELIFE*
Hueschen, C. L., Kenny, S. J., Xu, K., Dumont, S.
2017; 6
- **Force on spindle microtubule minus ends moves chromosomes** *JOURNAL OF CELL BIOLOGY*
Elting, M., Hueschen, C. L., Udy, D. B., Dumont, S.
2014; 206 (2): 245-256
- **Fundamental limits on the rate of bacterial growth and their influence on proteomic composition.** *Cell systems*
Belliveau, N. M., Chure, G., Hueschen, C. L., Garcia, H. G., Kondev, J., Fisher, D. S., Theriot, J. A., Phillips, R.
2021

- **Characterization of the interaction between beta-catenin and sorting nexin 27: contribution of the type I PDZ-binding motif to Wnt signaling** *BIOSCIENCE REPORTS*
DuChez, B. J., Hueschen, C. L., Zimmerman, S. P., Baumer, Y., Wincovitch, S., Playford, M. P.
2019; 39

- **Newly synthesized polycystin-1 takes different trafficking pathways to the apical and ciliary membranes** *TRAFFIC*
Gilder, A. L., Chapin, H. C., Padovano, V., Hueschen, C. L., Rajendran, V., Caplan, M. J.
2018; 19 (12): 933-945

- **Increased lateral microtubule contact at the cell cortex is sufficient to drive mammalian spindle elongation** *MOLECULAR BIOLOGY OF THE CELL*
Guild, J., Ginzberg, M. B., Hueschen, C. L., Mitchison, T. J., Dumont, S.
2017; 28 (14): 1975-83

- **Kinesin-5: A Team Is Just the Sum of Its Parts** *DEVELOPMENTAL CELL*
Hueschen, C. L., Long, A. F., Dumont, S.
2015; 34 (6): 609-10

- **Sorting nexin 27 (SNX27) associates with zonula occludens-2 (ZO-2) and modulates the epithelial tight junction** *BIOCHEMICAL JOURNAL*
Zimmerman, S. P., Hueschen, C. L., Malide, D., Milgram, S. L., Playford, M. P.
2013; 455: 95-106