| Stephanie C. Weber | Stewart Biology Building, W5/15 1205 Avenue Docteur Penfield |
|--|--|
| Assistant Professor Department of Biology McGill University | Montreal, QC H3A 1B1 steph.weber@mcgill.ca http://stephweber.net |
| Education | |
| Ph.D. Biochemistry, Stanford University | 2011 |
| B.S. Biology, B.S. Chemistry, summa cum laude, Duke | University 2006 |
| Research Experience | |
| Postdoctoral fellow with Cliff Brangwynne, Princeton U An intracellular phase transition couples nucleolar in early C. elegans embryos | · · |
| Graduate student with Julie Theriot, Stanford Universi Macromolecular motion in vivo: anomalous diffusio "active" viscoelastic medium | • |
| Honors, Awards and Fellowships | |
| Damon Runyon Postdoctoral Fellowship | 2012-2015 |
| Jane Coffin Childs Memorial Fund Postdoctoral Fellows | ship (declined) 2012 |
| Life Sciences Research Foundation Postdoctoral Fellows | ship (declined) 2012 |
| Bioengineering Outstanding Teaching Assistant Award | 2011 |
| Harold M. Weintraub Graduate Student Award National award recognizing outstanding achievement in graduate studies in the biological sciences | |
| NSF Graduate Research Fellowship | 2008-2011 |
| Graduation with Distinction in Biology, Chemistry | 2006 |
| Faculty Scholar Award Highest honor bestowed upon a Duke undergraduate recognizing intellectual leadership and scholarly accomplishment | |
| Phi Beta Kappa | 2005 |
| Deans' Summer Research Fellowship | 2005 |
| GEBS/NSF REU Summer Scholars Program | 2004 |
| Howard Hughes Research Fellows Program | |

Publications

- Uppaluri, S., Weber, S. C., and Brangwynne, C. P. (2016) Hierarchical size scaling during multicellular growth and development, *Cell Reports*, In press.
- Berry, J. M.*, **Weber, S. C.***, Vaidya, N., Haataja, M. and Brangwynne, C. P. (2015) RNA transcription modulates phase transition-driven nuclear body assembly, *Proceedings of the National Academy of Sciences*, 112, E5237. *Co-first authors.
- Weber, S. C., and Brangwynne, C. P. (2015) Inverse size scaling of the nucleolus by a concentration-dependent phase transition, *Current Biology*, 25, 641.
- Weber, S. C., and Brangwynne, C. P. (2012) Getting RNA and protein in phase, *Cell*, 149, 1188.
- Weber, S. C., Thompson, M. A., Moerner, W. E., Spakowitz, A. J. and Theriot, J. A. (2012) Analytical tools to distinguish the effects of localization error, confinement and medium elasticity on the velocity autocorrelation function, *Biophysical Journal*, 102, 2443.
- Weber, S. C., Spakowitz, A. J. and Theriot, J. A. (2012) Nonthermal ATP-dependent fluctuations contribute to the *in vivo* motion of chromosomal loci, *Proceedings of the National Academy of Sciences*, 109, 7338.
- Weber, S. C., Theriot, J. A. and Spakowitz, A. J. (2010) Subdiffusive motion of a polymer composed of subdiffusive monomers, *Physical Review E* 82, 011913.
- Weber, S. C. and Theriot, J. A. (2010) Mu gets in the loop, Molecular Cell 39, 1.
- Weber, S. C., Spakowitz, A. J. and Theriot, J. A. (2010) Bacterial chromosomal loci move subdiffusively through a viscoelastic cytoplasm, *Physical Review Letters* 104, 238102.

Invited Talks

- Weber, S. C., Berry, J. M., Vaidya, N., Haataja, M. and Brangwynne, C. P. (2015) RNA transcription modulates phase transition-driven nucleolar assembly, *American Society for Cell Biology*, Annual Meeting.
- Weber, S. C. and Brangwynne, C. P. (2014) Nucleolar assembly and growth are governed by a concentration-dependent phase transition, *American Society for Cell Biology*, Annual Meeting.
- Weber, S. C. and Brangwynne, C. P. (2014) Inverse size scaling of the nucleolus by a concentration-dependent phase transition, *Biophysical Society*, Disordered Motifs and Domains in Cell Control.
- Weber, S. C. and Brangwynne, C. P. (2014) Nucleolar size and assembly is governed by a concentration-dependent phase transition, *Gordon Research Conference*, Post-Transcriptional Gene Regulation.

Weber, S. C., Spakowitz, A. J. and Theriot, J. A. (2010) ATP-dependent fluctuations drive macromolecular motion in vivo, American Society for Cell Biology, Ann. Meeting.

Teaching Experience Adjunct Lecturer, Department of Biology, Santa Clara University 2015-2016 BIOL181 Physical Biology of the Cell BIOL175 Molecular Biology BIOL25 Investigations in Cell and Molecular Biology BIOL18 Exploring Biotechnology Teaching Transcript Program, Princeton University 2013-2015 Pedagogical training at The McGraw Center for Teaching & Learning Guest Lecturer, Princeton University 2012, 2014 CBE433 Mechanics and Dynamics of Soft Living Matter Teaching Assistant, Stanford University 2008, 2010 BIOE41 Physical Biology of Macromolecules BIO109 The Human Genome and Disease Teaching Assistant, Marine Biological Laboratory, Woods Hole, MA 2008 Physiology Course Service Women in Cell Biology 2015 Served as a table leader for a Career Discussion Roundtable at the American Society for Cell Biology's Annual Meeting. Princeton Postdoc Council 2013-2015 Served as liaison between postdocs and administration; Organized professional development and social events for the postdoctoral community at Princeton Mentoring Program 2013-2015 Coordinated mentoring relationships between postdocs and graduate students, in collaboration with Graduate Women in Science and Engineering (GWISE) Outreach 2012-2015 Designed and delivered lectures and lab activities for students

at Stuart Country Day School in Princeton, NJ and

Kilmer Elementary School in Trenton, NJ