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EDUCATION

- Ph.D. Zoology (Developmental Cell Biology; 2001)
University of Washington, Seattle WA
- B.S. Biology (1994)
Yale University, New Haven CT

EXPERIENCE

Assistant Investigator, Stowers Institute for Medical Research	2006-present
Postdoctoral Fellow, Harvard Medical School (Advisor: Norbert Perrimon) <i>The molecular control of epithelial morphogenesis in Drosophila melanogaster</i>	2001–2006
Doctoral Student, University of Washington (Advisor: Gerold Schubiger) <i>The role of peripodial epithelia in development of Drosophila imaginal discs</i>	1996–2001
Biotechnology Patent Assistant, Pennie & Edmonds LLC (New York, NY)	1995–1996

PUBLICATIONS

1. Patel, A.B., Gibson, W.T., Gibson, M.C., and Nagpal, R. (2009) Modeling and inferring cleavage patterns in proliferating epithelia. ***PLoS Computational Biology***, Submitted.
2. Gibson W.T., and Gibson M.C. (2009) Cell Topology, Geometry and Morphogenesis in Proliferating Epithelia. ***Current Topics in Developmental Biology***, Submitted.
3. Nagpal, R., Patel, A., and Gibson, M.C. (2008). Problems and paradigms: Epithelial topology. ***BioEssays***, 30(3):260-266.
4. Gibson, M.C. (2007). Bicoid by the numbers: quantifying a morphogen gradient. ***Cell*** 130:14-16.
5. Gibson, M.C., Patel, A., Nagpal, R., and Perrimon, N. (2006) An emergent geometric order in proliferating metazoan epithelia. ***Nature*** 442:1038.
6. Gibson, M.C., and Perrimon, N. (2005) Extrusion and Death of DPP/BMP-compromised epithelial cells in the developing *Drosophila* wing. ***Science*** 307:1785. (cover image)
7. Gibson, M.C., and Perrimon, N. (2003) Apicobasal polarization: epithelial form and function. ***Current Opinion in Cell Biology*** 15:747.
8. Gibson, M.C., Lehman, D., and Schubiger, G. (2002) Lumenal transmission of Decapentaplegic in *Drosophila* imaginal discs. ***Developmental Cell*** 3:451.
9. Hrdlicka, L., Gibson, M., Kiger, A., Micchelli, C., Schober, M., Schock, F., Perrimon, N. (2002) Analysis of twenty-four Gal4 lines in *Drosophila melanogaster*. ***Genesis*** 34: 51.
10. Gibson, M.C., and Schubiger, G. (2001) *Drosophila* peripodial cells, more than meets the eye? ***BioEssays*** 23:691.
11. Gibson, M.C., and Schubiger, G. (2000) Peripodial cells regulate proliferation and patterning in *Drosophila* imaginal discs. ***Cell*** 103: 343. (cover image)
12. Griffin, K.J.P., Stoller, J., Gibson, M.C., S. Chen, D. Yelon, D. Y. R. Stanier and D. Kimelman (2000) A conserved role for H15-related T-box transcription factors in zebrafish and *Drosophila* heart formation. ***Developmental Biology*** 218:235.

13. Gibson, M.C. and Schubiger, G. (1999) Hedgehog is required for activation of engrailed during regeneration of fragmented *Drosophila* imaginal discs. **Development** 126:1591.

PROFESSIONAL HONORS

Awards:

- 2006** Burroughs Wellcome Fund Career Award in Biomedical Sciences
- 2002** Larry Sandler Memorial Award for Outstanding *Drosophila* thesis (national)
- 2000** Harold M. Weintraub Award for Innovative Graduate Research (national)
- 2000** Outstanding Speaker Prize, Northwest Developmental Biology Conference
- 1998** Outstanding Speaker Prize, Northwest Developmental Biology Conference

Grants:

- 2005** Cambridge Templeton Consortium
- 2002** Fellow, Jane Coffin Childs Memorial Fund for Medical Research
- 2002** Awarded Damon Runyan and NIH NRSA Postdoctoral Fellowships (*declined*)
- 1998** Molecular and Cellular Biology Fellow, University of WA (Seattle)
- 1996** ARCS Foundation Fellowship, Seattle Chapter

Selected Talks:

- 2009** Plenary speaker, Northwest Society for Developmental Biology (Friday Harbor, WA)
- 2009** Invited seminar, University of Kansas Dept. Biomolecular Sciences (Lawrence, KS)
- 2008** Invited speaker, Ohio State Univ., Mathematical Biosciences Institute (Columbus, OH)
- 2008** Invited Speaker, KITP Workshop on Morphogenesis (Santa Barbara, CA)
- 2005** Invited Seminar, Tufts University, Cell Mol. Dev. Bio. Program (Boston, MA)
- 2005** Gordon Research Conference on Developmental Biology (Andover, NH)
- 2005** Keystone Meeting, Cell Polarity and Asym. Cell Division (Coeur D'Alene, ID)
- 2004** Leica Advanced Imaging Symposium (Boston, MA)
- 2004** *Drosophila* Research Conference (workshop talk; Washington, DC)
- 2002** Larry Sandler Memorial Lecture, *Drosophila* Research Conference (San Diego, CA)

Ad hoc Reviewer:

Cell, Nature Cell Biology, Current Biology, Developmental Cell, Development, Developmental Biology

CURRENT RESEARCH

Genetic and genomic approaches to growth control, epithelial cell proliferation, and molecular cell biology in two model systems: the fruit fly *Drosophila melanogaster* and the sea anemone *Nematostella vectensis*.