SALLY HORNE-BADOVINAC

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EDUCATION	
University of California, San Francisco - Ph.D., Biochemistry	2003
University of Oregon - B.S., Chemistry	
RESEARCH POSITIONS	
Assistant Professor of Molecular Genetics and Cell Biology – University of Chicago Epithelial morphogenesis and basement membrane dynamics in Drosophila	2008-pres
Postdoctoral fellow with Dr. David Bilder - U.C. Berkeley Genetic regulation of epithelial morphogenesis in Drosophila	
Graduate student with Dr. Didier Y.R. Stainier - U.C. San Francisco Cellular mechanisms of left-right organ morphogenesis in zebrafish	1997-2003
Undergraduate researcher with Dr. John H. Postlethwait - University of Oregon Construction and syntenic analysis of the first zebrafish genetic linkage map	
OTHER APPOINTMENTS	
Committee on Development, Regeneration and Stem Cell Biology – University of Chicago	2008-pres
Committee on Genetics, Genomics and Systems Biology – University of Chicago	2008-pres
HONORS AND AWARDS	
Basil O'Connor Starter Scholar Research Award, The March of Dimes Foundation	2010-2012
Edward Mallinckrodt, Jr. Foundation Young Investigator Award	2009-2012
Best Postdoctoral Presentation Award, West Coast Regional SDB Meeting	2007
Jane Coffin Childs Postdoctoral Fellowship	2003-2006
Harold C. Weintraub Graduate Student Award, FHCRC	2003
American Heart Association Predoctoral Fellowship	2001-2003
National Science Foundation Predoctoral Fellowship	1998-2001
American Foundation of Chemists Award, University of Oregon	1996
Graduated summa cum laude and with Departmental Honors, University of Oregon	1996
Women in the Physical Sciences Scholarship, University of Oregon	1995-1996
Summer Undergraduate Research Fellowship, HHMI	1994

PUBLICATIONS

Cetera, M., Ramirez-San Juan, G.R., Oakes, P.W., Lewellyn, L., Fairchild, M.J., Tanentazapf, G., Gardel, M.L. and **Horne-Badovinac**, **S.** (2014). Epithelial rotation promotes the global alignment of contractile actin bundles during *Drosophila* egg chamber elongation. *Nature Communications* (in press)

Horne-Badovinac, S. (2014). The *Drosophila* egg chamber – a new spin on how tissues elongate. *Integrative and Comparative Biology*, 54(4), 667-676.

Horne-Badovinac, S. (2014). ASCB Annual Meeting Highlight: Cell-cell and cell-matrix interactions. *Molecular Biology of the Cell*, 25(6), 731.

Lewellyn, L., Cetera, M. and **Horne-Badovinac, S.** (2013). Misshapen decreases integrin levels to promote epithelial motility and planar polarity in *Drosophila*. *Journal of Cell Biology*, 200(6) 721-729. **cover article - highlighted in J. Cell Biol., 200(6) p.84

Lerner, D.W., McCoy, D., Isabella, A.J., Mahowald, A.P., Gerlach, G.F., Chaudhry, T.A. and **Horne-Badovinac, S.** (2013). A Rab10-dependent mechanism for polarized basement membrane secretion during organ morphogenesis. *Developmental Cell* 24, 159-168.

**cover article - recommended by Faculty of 1000

Horne-Badovinac, S. Hill, J.J., Gerlach, G., Menegas, W., and Bilder, D. (2012). A screen for round egg mutants in *Drosophila* identifies Tricornered, Furry and Misshapen as regulators of egg chamber elongation. *Genes|Genomes|Genetics*, 2(3), 371-378.

Horne-Badovinac, S. and Munro, E. (2011). Developmental Biology: Tubular Transformations. *Science*, 333(6040), 294-295.

Horne-Badovinac, S. and Bilder, D. (2008). Dynein regulates epithelial polarity and the apical localization of *stardust A* mRNA. *PLoS Genetics*, 4(1), 40-51.

Horne-Badovinac, S. and Bilder, D. (2005). Mass Transit: epithelial morphogenesis in the *Drosophila* egg chamber. *Developmental Dynamics*, 232(3), 559-574.

Horne-Badovinac, S., Rebagliati, M. and Stainier, D.Y. (2003). A cellular framework for gut looping morphogenesis in zebrafish. *Science*, 302(5645), 662-665.

Horne-Badovinac, S., Lin, D., Waldron, S., Schwarz, M., Mbamalu, G., Pawson, T., Jan, Y.N., Stainier, D.Y.R., Abdelilah-Seyfried, S. (2001). Positional cloning of *heart and soul* reveals multiple roles for PKCλ in zebrafish organogenesis. *Current Biology* 11, 1492-1502.

Yelon, D., **Horne, S.A.**, and Stainier, D.Y. (1999). Restricted expression of cardiac myosin genes reveals regulated aspects of heart tube assembly in zebrafish. *Developmental Biology* 18(4), 23-37

Postlethwait, J.H., Yan, Y.L., Gates, M.A., **Horne, S.**, Amores, A., Brownlie, A., Donovan, A., Egan, E.S., Force, A., Gong, Z., Goutel, C., Fritz, A., Kelsh, R., Knapik, E., Liao, E., Paw, B., Ransom, D., Singer, A., Thomson, M., Abduljabbar, T.S., Beier, D., Joly, J.S., Larhammar, D., Rosa, F., (1998). Vertebrate genome evolution and the zebrafish gene map. *Nature Genetics*, 18(4), 345-349.

Johnson, S.L., Gates, M.A., Johnson, M., Talbot, W.S., **Horne, S.**, Baik, K., Rude, S., Wong, J.R., Postlethwait, J.H. (1996). Centromere-linkage analysis and consolidation of the zebrafish genetic map. *Genetics*, 142(4), 1277-1288.

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Johnson, S.L., Africa, D., **Horne, S.**, Postlethwait, J.H., (1995). Half-tetrad analysis in zebrafish: mapping the *ros* mutation and the centromere of linkage group I. *Genetics*, 139(4), 1727-1735.

Postlethwait, J.H., Johnson, S.L., Midson, C.N., Talbot, W.S., Gate M., Ballinger E.W., Africa, D., Carl, T., Eisen, J.S., **Horne, S.**, Kimmel, C.B., Hutchinson, M., Johnson, M., and Rodriguez, A. (1994). A genetic linkage map for the zebrafish. *Science*, 264(5159), 699-703.

INVITED TALKS (last 5 years)

Invited Speaker, Quantitative Biology of Signaling Conference - Cargése, Corsica, France	2015
Seminar, Development and Stem Cell Biology Colloquium, Duke University – Durham, NC	2015
Invited Speaker, Dev. Mechanics Workshop, 56th Drosophila Research Conference - Chicago, IL	2015
Seminar, Dept. of Pathology, The University of Chicago – Chicago, IL	2015
Seminar, Dept. of Cell Biology and Physiology, Washington University - St. Louis, MO	2015
Seminar, Dept. of Biochemistry, University of Iowa - Iowa City, IA	2015
Seminar, Dept. of Cell and Developmental Biology, University of Illinois - Urbana-Champaign, IL	2014
Seminar, Dept. of Genetics, Case Western Reserve University - Cleveland, OH	2014
Invited Plenary Speaker, American Society for Matrix Biology Biennial Meeting - Cleveland, OH	2014
Invited Speaker, EMBO Conference, Mol and Dev Biol of Drosophila – Kolymbari, Crete, Greece	2014
Seminar, Dept. of Life Sciences, University of Nevada, Las Vegas – Las Vegas, NV	2014
Invited Speaker, Chicago Cytoskeleton Meeting – Chicago, IL	2014
Seminar, Dept. of Cell Biology, University of Virginia – Charlottesville, VA	2014
Seminar, Inst. for Research in Immunology and Cancer, Université de Montréal, QC,Canada	2014
Invited Speaker, Society for Integrative and Comparative Biology Annual Meeting – Austin, TX	2014
Seminar, Dept. of Biological Sciences, Columbia University – New York, NY	2013
Seminar, Dept. of Cell and Dev. Biology, Vanderbilt University Medical Center – Nashville, TN	2013
Seminar, Dept. of Cell and Dev. Biology, University of Pennsylvania – Philadelphia, PA	2013
Invited Speaker, Gordon Research Conference on Molecular Membrane Biology – Andover, NH	2013
Seminar, School of Life Sciences, Tsinghua University, Beijing, People's Republic of China	2013
Seminar, Dept. of Molecular Biology, Princeton University – Princeton, NJ	2012
Seminar, Dept. of Cell and Molecular Biology, Feinberg School of Medicine – Chicago, IL	2012
Seminar, Biosciences Dept., Western Michigan University – Kalamazoo, MI	2012
Seminar, CBC Scholars Loop Connection Seminar Series – Chicago, IL	2012
Platform talk, 53 rd Annual Drosophila Research Conference – Chicago, IL	2012
Platform talk, 70 th Annual Society for Developmental Biology Meeting – Chicago, IL	2011
Platform talk, Collagen Gordon Research Conference – New London, NH	2011
Invited speaker, Chicago Cytoskeleton Meeting – Chicago, IL	2009

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INVITED EXTRAMURAL SERVICE

Manuscript Reviewer

Development, Developmental Biology, Fly, Journal of Cell Biology, Journal of Visualized Experiments, Molecular Biology of the Cell, Nature Protocols

Grant Reviewer

NSF Division of Integrative Organismal Systems preliminary proposal evaluation panel (animal developmental mechanisms)	2014
Ad Hoc reviewer for Agence Nationale de la Recherche, France	2013
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Ad Hoc reviewer for the National Science Foundation, USA	2012
Service to Professional Organizations	
Invited Discussion Leader, Women Mentoring Women Breakfast American Society for Matrix Biology Biennial Meeting, Cleveland, OH	2014
Co-Chair (with Clare Waterman), Cell-Cell and Cell-Matrix Interactions Minisymposium American Society for Cell Biology Meeting, New Orleans, LA	2013
Co-Chair (with Mark Peifer), Cell Biology and Cytoskeleton Platform Session,	
52 nd Annual <i>Drosophila</i> Research Conference, Chicago, IL	2012
Poster Judge, 70 th Annual Society for Developmental Biology Meeting, Chicago, IL	2011
Invited panelist for a symposium on academic job searches, BSD PDA, Chicago, IL	2011
Invited panelist for a symposium on academic job negotiations, AWIS Chicago Chapter	2010

UNIVERSITY OF CHICAGO SERVICE

MGCB Faculty Search Committee	2014-pres
Interviewer of BPHYS Graduate Program Applicants	2014-pres
ISTP Graduate Program Curriculum Committee	2012-pres
Faculty Advisory Panel to the BSD Postdoctoral Association	2012-pres
Faculty Advisor for Developmental Biology Journal Club	2011-pres
Developmental Biology Training Grant Steering Committee	2011-pres
Interviewer of ISTP MD/PhD Program Applicants	2011-pres
Interviewer of PREP Program Applicants	2010-pres
Interviewer of Molecular Biosciences Graduate Program Applicants	2009-pres
DRSB Graduate Program Curriculum Committee	2009-pres
Molecular Biosciences Graduate Admissions Committee (DRSB)	2009-2011

SOCIETY MEMBERSHIPS

American Society for Matrix Biology	2014-pres
Society for Developmental Biology	2007-pres
Genetics Society of America	2003-pres
American Society for Cell Biology	2002-pres