

Curriculum Vitae

STEPHANIE NOWOTARSKI

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Personal Statement

I am a UNC Biology department Ph.D. student in Dr. Mark Peifer's laboratory. I am interested in how cells coordinate adhesion among neighbors with individual cytoskeletal rearrangements to allow highly dynamic tissue rearrangements that are required in normal development and homeostasis. Specifically, I am working on regulation of the actin cytoskeleton by a suite of proteins which modulate actin filament assembly and architecture to produce both cell movement and protrusions required by the cell for probing the local environment.

Education

Cedar Crest College, Allentown PA — Genetic Engineering, 2006

University of North Carolina, Chapel Hill NC — Biology, 2006 -present

Research Record

Undergraduate Research Assistant for Dr. Cristen L Rosch **2003-2006**

AC115 chloroplast gene characterization and microtubule associated proteins in *Chlamydomonas*

Ph.D. Student UNC Lab Rotation with Dr. Kerry Bloom **Fall 2006**

Spatial and temporal regulation of securin and separase in sister chromatid separation in *S. cerevisiae*

Ph.D. Student UNC Lab Rotation with Dr. Mark Peifer **Winter 2007**

Exploring the role of Canoe in morphogenetic processes in *Drosophila*

Ph.D. Student UNC Lab Rotation with Dr. Robert Duronio **Spring 2007**

Researching an alternate role of Lsm11 outside the U7RNP in *Drosophila*

Physiology Course Woods Hole Marine Biological Laboratory **Summer 2010**

Dr. James Nelson and Dr. KengHui Lin- New methods for 3D cell culture

Dr. Alexy Khodjakov- Exploring regulation of centriole disengagement

Dr. R. Dyche Mullins- Molecular basis for VASP Actin barbed end polymerase activity

Ph.D. Student in the Laboratory of Dr. Mark Peifer **2007-present**

Understanding Enabled's and other actin regulators role in cytoskeleton regulation in *Drosophila* development

Fellowships and Awards

Graduate Fellowship, Cell and Molecular Biology Training Grant **2008-2009**

University of North Carolina at Chapel Hill

Publications

J.-Y. Lin, W.J. Lin, W.-H. Hong, W.-C. Hung, **S.H. Nowotarski**, S. Montenegro Gouveia, I. Cristo and K.-H. Lin (2011) Morphology and organization of tissue cells in 3D microenvironment of monodisperse foam scaffolds. *Soft Matter*, in press.

Gates J, **Nowotarski SH**, Yin H, Mahaffey JP, Bridges T, Herrera C, Homem CC, Janody F, Montell DJ, Peifer M. (2009) Enabled and Capping protein play important roles in shaping cell behavior during *Drosophila* oogenesis. *Developmental Biology*, Sep 1;333(1):90-107.

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Stevens T.L., Rogers E.M., Koontz L.M., Fox D.T., Homem C.C.F., **Nowotarski S.H.**, Artabazon N.B., Peifer M. Using Bcr-Abl to Examine Mechanisms by Which Abl Kinase Regulates Morphogenesis in *Drosophila*. *Molecular Biology o the Cell* 2008 **378** (19): 378-393.

Presentations

Poster Presentation at the 2008 *Drosophila* Research Conference, San Diego CA. **Nowotarski S.H.**, Gates J., Peifer M. Enabled and Capping Protein Regulation of the Actin Cytoskeleton in *Drosophila* Development.

Poster Presentation at the 2009 ASCB Meeting, San Diego CA. **Nowotarski S.H.**, Banerjee R., Gates J., Peifer M. Roles of Ena/VASP and Capping Protein in *Drosophila* development.

Poster at the 2011 ASCB Meeting, Philidelphia PA. Hansen, S.D., Weaver L.N., **Nowotarski S.**, Manor U., Mullins R. Molecular Basis for VASP Actin Barbed End Polymerase Activity.

Poster Presentation at the 2011 *Drosophila* Research Conference, San Diego CA. **Nowotarski S.H.**, Guerin C., Gates J., Peifer M. Enabled and Diaphanous mediated regulation of the actin cytoskeleton in *Drosophila* development.