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EDUCATION

University of North Carolina at Chapel Hill
Curriculum in Genetics and Molecular Biology
Ph.D., 1998
Advisor: Dr. Mark Peifer
Dissertation: A genetic approach to understanding Armadillo function in *Drosophila*.

University of Pennsylvania, Philadelphia, PA
B.A., Biology, 1992

AWARDS & FELLOWSHIPS

Society for Developmental Biology – Zeiss image award for poster, 2006
Society for Developmental Biology – Travel Award 2006
Helen Hay Whitney Postdoctoral Research Fellowship, 1999-2002
Sarah Graham Kenan Fellowship, 1997-1998
ASCB Predoctoral Student Travel Award, 1997
Pew Foundation Summer Research Grant, 1990

RESEARCH EXPERIENCE

1999 - present
Postdoctoral Fellow, Carnegie Institution of Washington
Department of Embryology, Baltimore, MD
Laboratory of Dr. Allan Spradling

1998 – 1999
Postdoctoral Fellow, Department of Biology
University of North Carolina, Chapel Hill, NC
Laboratory of Dr. Mark Peifer

1993 – 1998
Ph.D Candidate, Curriculum in Genetics and Molecular Biology
University of North Carolina, Chapel Hill, NC
Laboratory of Dr. Mark Peifer

1992 - 1993
Research Technician
University of Virginia, Charlottesville, VA, Department of Hematology and Oncology
Laboratory of Dr. Christopher Thomas

TEACHING EXPERIENCE

1994
Teaching Assistant: Principles of Genetic Analysis
University of North Carolina, Chapel Hill, NC, Department of Biology

1995-1999

Undergraduate research supervisor for three students
University of North Carolina, Chapel Hill, NC
Laboratory of Dr. Mark Peifer

PUBLICATIONS

Cox, R. T. and Spradling, A. C. (2006) Milton controls early mitochondrial acquisition by the oocyte. *Development*, available online Aug 3, doi:10.1242/dev.02514.

Cox, R. T. and Spradling, A. C. (2003) A Balbiani body and the fusome mediate mitochondrial inheritance during *Drosophila* oogenesis. *Development* 130:1579-1590.

McEwen*, D.G., **Cox*, R.T.**, Peifer, M. (2000). The canonical Wg and JNK signaling cascades collaborate to promote both dorsal closure and ventral patterning. *Development* 127:3607-3617.

Cox, R.T., McEwen, D.G., Myster, D.G., Duronio, R.J., Loureiro, J., and Peifer, M. (2000). A screen for mutations that suppress the phenotype of *Drosophila* armadillo, the β -catenin homolog. *Genetics* 155:1725-1740.

Cox, R. T., Pai, L.-M., Miller, J. R., Orsulic, S., Stein, J., McCormick, C. A., Audeh, Y., Wang, W., Moon, R. T. and Peifer, M. (1999). Membrane-tethered *Drosophila* Armadillo cannot transduce Wingless signal on its own. *Development* 126:1327-1335.

Cox*, R.T., Pai*, L.-M., Kirkpatrick, C., Stein, J., Peifer, M. (1999). Roles of the C-Terminus of Armadillo in Wingless Signaling in *Drosophila*. *Genetics* 153:319-332.

Cavallo*, R.T., **Cox*, R.T.**, Moline*, M.M., Roose, J., Plevoy, G.A., Clevers, H., Peifer, M., Bejsovec, A. (1998). *Drosophila* TCF and Groucho interact to repress Wingless signaling activity. *Nature* 395:604-608.

Cox, R.T. and Peifer, M. (1998). Cell Signaling: The inconvenient complexities of life. *Current Biology* 8, R140-R144.

Cox, R.T., Kirkpatrick, C., Peifer, M. (1996). Armadillo is required for adherens junction assembly, cell polarity and morphogenesis during *Drosophila* embryogenesis. *Journal of Cell Biology* 134:133-148.

*co-first author

SEMINARS

2006 Annual *Drosophila* Research Conference – Stem cell workshop

2004 Cold Spring Harbor Laboratories – Germ Cells

2004 Annual *Drosophila* Research Conference – both in a Session and Workshop

2003 Annual *Drosophila* Research Conference - Session

2002 Annual *Drosophila* Research Conference – Stem cell workshop

1998 Annual *Drosophila* Research Conference - Session