Kaelyn D. Sumigray

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EDUCATION	Duke University Medical Center Ph.D. Candidate, Cell Biology	Durham, NC 09/2006-12/2011
	Union College B.S., Biology	Schenectady, NY 09/2002-12/2005
RESEARCH		
	Lineberger Cancer Center and Department of Biology University of North Carolina – Chapel Hill Under the mentorship of Dr. Mark Peifer, I study the establishment of epithelial polarity during Drosophila embryogenesis and the interplay between cell-cell junctions and polarit proteins.	Chapel Hill, NC 03/2012-present
	Duke University Medical Center esearch scholar raduate Student Thesis work studying novel functions of cell-cell adhesion molecules in microtubule organization. Under the supervision of Dr. Terry Lechler.	Durham, NC 01/2012-02/2012 09/2006-12/2011
U	Union College ndergraduate Undergraduate honors thesis research studying the scaffolding palladin's effects on cell contractility and the actin cytoskeleton. Under the supervision of Dr. Barbara Danowski.	Schenectady, NY 03/2005-06/2006

AWARDS

Lineberger Cancer Center Postdoctoral Fellowship, 03/2012-present American Society for Cell Biology travel award, 12/2010 Duke University Conference travel award, 12/2009, 12/2010

PRESENTATIONS

Duke University Cell Biology Departmental Retreat 09/2007 – Poster: "Understanding the roles of cell adhesion molecules in simple epithelial tissue"

09/2008 – Poster: "Novel roles for desmosomes in the small intestine and epidermis"

09/2010 - Talk: "Desmosomal control of microtubule organization"

American Society for Cell Biology Annual meeting

12/2009 – Poster: "Role of desmosomes in microtubule organization of the epidermis" 12/2010 – Minisymposium talk: "Desmosomes recruit a protein complex

12/2010 – Minisymposium talk: "Desmosomes recruit a protein complex essential for microtubule organization and epidermal barrier function"

PUBLICATIONS

<u>Sumigray, KD and Lechler T.</u> Noncentrosomal Microtubules Potentiate Cell Adhesion and Barrier Formation in the Epidermis. *J Cell Biol.* 2012. *Under revision*.

<u>Sumigray, KD and Lechler T.</u> Desmoplakin Controls Microvilli Length but not Cell Adhesion or Keratin Organization in the Intestinal Epithelium. *Mol Biol Cell*. 2012. 23(5): 792-9.

<u>Sumigray, KD and Lechler T.</u> Control of Cortical Microtubule Organization and Desmosome Stability by Centrosomal Proteins. *Bioarchitecture*. 2011. 1(5): 1-4.

<u>Sumigray, KD</u>, Chen H, and Lechler T. Lis1 is Essential for Cortical Microtubule Organization and Desmosome Function in the Epidermis. *J Cell Biol*. 2011. 194: 631-42.

<u>Sumigray, KD</u> and Lechler, T. Dissecting cell adhesion crosstalk with micropatterns. Proc Natl Acad Sci USA. 2010. 107: 13199.

MEMBERSHIPS

American Society for Cell Biology