# Kaelyn D. Sumigray 

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EDUCATION
Duke University Medical Center
Durham, NC
Ph.D. Candidate, Cell Biology
09/2006-12/2011

Union College
Schenectady, NY
B.S., Biology

09/2002-12/2005

## RESEARCH

Lineberger Cancer Center and
Department of Biology
University of North Carolina - Chapel Hill
Chapel Hill, NC 03/2012-present
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 polarity proteins.

Duke University Medical Center Durham, NC
Research scholar
01/2012-02/2012
Graduate Student
09/2006-12/2011
Thesis work studying novel functions of cell-cell adhesion molecules in microtubule organization.
Under the supervision of Dr. Terry Lechler.

Union College Schenectady, NY

## Undergraduate

03/2005-06/2006
Undergraduate honors thesis research studying the scaffolding palladin's effects on cell contractility and the actin cytoskeleton. Under the supervision of Dr. Barbara Danowski.

AWARDS<br>Lineberger Cancer Center Postdoctoral Fellowship, 03/2012-present<br>American Society for Cell Biology travel award, 12/2010<br>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 essential for microtubule organization and epidermal barrier function"

## PUBLICATIONS

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

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

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

Sumigray, KD, 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.

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

## MEMBERSHIPS

American Society for Cell Biology

