

CURRICULUM VITAE  
**CHRISTOPHER R. ARNETTE**

**CONTACT INFORMATION:**

Northwestern University – Feinberg School of Medicine

Department of Pathology

Kathleen J. Green Laboratory

303 E. Chicago Avenue

Tarry 3-732

Chicago, IL 60611

Phone: (312) 503 – 5069

Email: christopher.arnette@northwestern.edu

**EDUCATION:**

2008 – 2014 Vanderbilt University Medical School, Nashville, TN

Ph.D. Department of Cell and Developmental Biology

Project: Functional and Regulatory mechanisms of microtubule-associated proteins involved in cancer progression

2004 – 2008 Prairie View A&M University, Prairie View, TX

B.S. Biology, Minors in Chemistry and Spanish

**PUBLICATIONS:**

Research Papers

**Arnette C**, Efimova N, Zhu X, Clark GJ, Kaverina I. Microtubule segment stabilization by RASSF1A is required for proper microtubule dynamics and Golgi integrity. *Mol Biol Cell*. 2014 Mar; 25(6):800-10. doi: 10.1091/mbc.E13-07-0374.

Cleghorn, WM, Branch KM, Kook S, **Arnette C**, Bulus N, Zent R, Kaverina I, Gurevich EV, Weaver AM, Gurevich VV. Arrestins regulate cell spreading and motility via focal adhesion dynamics. *Mol Biol Cell*. 2015 Feb 15; 26(4):622-35. doi: 10.1091/mbc.E14-02-0740.

**Arnette C**, Frye K, Kaverina I. Microtubule and Actin Interplay Drive Intracellular c-Src Trafficking. *PLoS One*. 2016 Feb; 11(2):1-13. doi: 10.1371/journal.pone.0148996.

Zhu X, Efimova N, Arnette **C**, Hanks SK, Kaverina I. Podosome dynamics and location in vascular smooth muscle cells requires CLASP-dependent microtubule bending. *Cytoskeleton (Hoboken)*. 2016 Jun; 73(6):300-15. doi: 10.1002/cm21302.

Valenzuela-Iglesias A, **Arnette C**, Yalamanchili A, Nekrasova O, and Green KJ. Desmoglein 1 regulates invadopodia by suppressing EGFR/Erk signaling in an Erbin-dependent manner. *Submitted, under review*.

**Arnette C**, Johnson, JL, Koetsier, JL, and Green KJ. Loss of keratinocyte desmoglein 1 occurs during melanoma development and alters crosstalk between keratinocytes and melanocytes. *Manuscript in preparation*.

Book Chapter

**Arnette C\***, Koetsier JL\*, Hoover P, Getsios S., Green KJ. *In vitro* model of the epidermis: Connecting protein function to 3D structure. *Methods Enzymology*. 2015. doi: 10.1016/bs.mie.2015.07.015. (**\*indicates authors contributed equally to this work**)

#### Abstracts

**Arnette C** and Egelhoff T. Nonmuscle myosin-IIA specific roles in driving lamellipodial protrusion during Cos-7 cell spreading. Case Western Reserve University, Cleveland, OH. 2007. Poster presentation.

**Arnette C** and Egelhoff T. Nonmuscle myosin-IIA specific roles in driving lamellipodial protrusion during Cos-7 cell spreading. 52<sup>nd</sup> Annual American Biophysical Society Meeting, Long Beach, CA. 2008. Poster presentation.

**Arnette C** and Kaverina I. Microtubule Regulation of podosomes via a Src-dependent pathway. Cell and Developmental Biology Annual Retreat. Vanderbilt University, Nashville, TN. 2010. Poster presentation.

**Arnette C** and Kaverina I. Microtubule and Actin Interplay drives intracellular trafficking of c-Src in VSMCs. Host-Tumor Cell Interactions / Cancer Biology Retreat. Vanderbilt University, Cadiz, KY. 2010. Oral presentation.

**Arnette C** and Kaverina I. RASSF1A binds to restricted segments of the microtubule lattice to regulate MT network configuration and dynamics. EMBO Conference Series; Microtubules: Structure, Regulation and Function, Heidelberg, Germany. 2012. Poster presentation.

**Arnette C** and Kaverina I. Microtubule and Actin Interplay drives intracellular trafficking of c-Src in VSMCs. Cell and Developmental Biology Annual Retreat. Vanderbilt University, Nashville, TN. 2012. Poster presentation.

**Arnette C** and Kaverina I. RASSF1A binds to restricted segments of the microtubule lattice to regulate MT network configuration and dynamics. Research Exchange Seminar Series. Department of Cell and Developmental Biology. Vanderbilt University, Nashville, TN. 2012. Oral presentation.

**Arnette C** and Kaverina I. RASSF1A binds to restricted segments of the microtubule lattice to regulate MT network configuration and dynamics. Cell and Developmental Biology Annual Retreat. Vanderbilt University, Nashville, TN. 2013. Poster presentation.

**Arnette C** and Kaverina I. RASSF1A binds to restricted segments of the microtubule lattice to regulate MT network configuration and dynamics. Host-Tumor Cell Interactions / Cancer Biology Retreat. Vanderbilt University, Nashville, TN. 2013. Poster presentation.

**Arnette C** and Kaverina I. RASSF1A binds to restricted segments of the microtubule lattice to regulate MT network configuration and dynamics. 53<sup>rd</sup> American Society for Cell Biology Annual Meeting. New Orleans, LA. 2013. Poster presentation.

**Arnette C**, Johnson, JL, Koetsier, JL, and Green KJ. Loss of keratinocyte desmoglein 1 occurs during melanoma development and alters crosstalk between keratinocytes and melanocytes. 76<sup>th</sup> Annual Meeting of the Society of Investigative Dermatology. Portland, OR. 2017. Oral and Poster presentation.

#### GRANT AND FELLOWSHIP AWARDS:

2010 – 2011	Integrated Biological Systems Training in Oncology (Stephen R. Hann), <b>T32 – CA119925-04</b> (NIH) Vanderbilt University
2012 – 2014	American Heart Association Pre-doctoral Fellowship (Christopher Arnette), <b>12PRE12040218</b> (AHA), Vanderbilt University
2014 – 2016	Training Program in Signal Transduction and Cancer (Leonidas Plataniotis), <b>5T32CA070085-18</b> (NIH), Northwestern University
2016 – 2017	F32 National Cancer Institute National Research Service Award (Christopher Arnette), <b>1F32CA210498-01</b>

#### HONORS AND AWARDS:

2004 – 2008	Prairie View A&M Univ. Regents' Student Merit Full Scholarship
2004 – 2008	Prairie View A&M Univ. College of Arts and Sciences Dean's List
2007	Heart, Lung, and Blood Research Presentation Award, Case Western Reserve University
2007	Quantitative Science Award, Annual Biomedical Research Conference for Minority Students
2008	Biophysical Society Travel Award, Biophysical Society

2017 Albert M. Kligman Travel Fellowship  
2017 Northwestern Postdoctoral Professional Development Travel Award

**LEADERSHIP POSITIONS and SERVICES:**

2005 – 2006 Prairie View A&M Univ. Tri- Beta Biological Honor Society President  
2012 – 2014 Vanderbilt Univ. Medical Center Cell and Developmental Biology Graduate Student Association President  
2014 Vanderbilt Univ. Medical Center Cell and Developmental Biology Retreat committee member  
2014 – 2015 Northwestern Univ. School of Med. Epithelial Cell Biology Group Seminar Series, Co-facilitator  
2015 Northwestern Univ. School of Med. Signal Transduction and Cancer Translational Research Mini-symposium organizer; Invited Speaker: Christopher Kemp, Ph.D., Fred Hutchison Cancer Research Center.  
2015 Future of Research Chicago Symposium  
2015 University of Chicago Postdoctoral Research and Career Development Symposium  
2016 H. Foundation Basic Science Symposium  
2016 6<sup>th</sup> Annual NIH Career Symposium  
2016 Annual Lurie Cancer Center Symposium

**REVIEWER ACTIVITIES:**

2011 – Present Faculty of 1000 Associate Faculty Member

**PROFESSIONAL MEMBERSHIPS:**

2005 Beta Beta Beta Biological Honor Society  
2005 Beta Kappa Chi Science Honor Society  
2007 – 2008 American Biophysical Society  
2008 – present American Society of Cell Biology  
2010 – present American Heart Association  
2017 – present Society of Investigative Dermatology  
2017 – present American Association for Cancer Research