

SEAN M. BLOOS

704-302-3202 · sean.m.bloos@vanderbilt.edu

EDUCATION

MPH, Epidemiology (Expected May 2020)

Vanderbilt University – Nashville, TN

BS (*cum laude*), Biochemistry and Molecular Biology (May 2018)

University of South Carolina – Columbia, SC

RESEARCH EXPERIENCE

MPH Practicum Experience – Vanderbilt University Medical Center *October 2018-Present*

- Department of Biomedical Informatics/Department of Emergency Medicine
- Principal Investigators: Daniel Fabbri, PhD & Candace McNaughton, MD, PhD, MPH
- Project: Automatic Sensing for Clinical Documentation

MPH Research Internship – Vanderbilt University Medical Center *October 2018-Present*

- Department of Emergency Medicine
- Principal Investigator: Maame Yaa “Maya” A. B. Yiadom, MD, MPH, MSCI
- Thesis Project: Characterization of the Young STEMI Patient

Undergraduate Researcher – University of South Carolina *January 2016-May 2018*

- Department of Pathology, Microbiology and Immunology
- Principal Investigator: Lucia Pirisi-Creek, MD
- Project: Use of Neonatal Stem-Like Keratinocytes to Investigate HPV-mediated Dysplasia

Summer Internship – Medical University of South Carolina *May 2017 – August 2017*

- South Carolina Cancer Health Equity Consortium – NIH/NCI R25 CA193088
- Department of Biochemistry and Molecular Biology
- Principal Investigator: Philip Howe, Ph.D., Professor and Chairman
- Project: Mechanism of TGF β -induced Cancer Stem Cell Formation through ILEI and LIFR

MANUSCRIPTS PUBLISHED

Woosley, A.N., Dalton, A.M., Hussey, G., Howley B., Mohanty B., Grelet, S., Dincman, T., **Bloos, S.M.**, Olsen, S., Howe, P. (2019). *TGF β promotes breast cancer stem cell self-renewal through an ILEI/LIFR signaling axis*. *Oncogene*. doi:10.1038/s41388-019-0703-z

MANUSCRIPTS IN PRESS

Bloos, S.M., McNaughton, C.D., Coco, J.R., Novak, L.L., Adams, J.A., Bodenheimer, R.E., Ehrenfeld, J.M., Heard, J.R., Paris, R.A., Simpson, C.L., Scully, D.M., Fabbri, D. *The Deployment of a Pre-Hospital Automated Sensing Clinical Documentation System*. AMIA Annual Symposium Proceedings. 2019.

HONORS AND AWARDS

Magellan Scholar Award (\$3000), University of South Carolina

Jan 2017

POSTERS

Bloos, S.M., Dalton, A.M., Woosley, A.N., & Howe, P. (2017, November) *Mechanism of TGF β -induced Cancer Stem Cell Formation through ILEI and LIFR*. Presented at the 2017 Annual Perry V Halushka MUSC Research Day.

Bloos, S.M., Pirisi-Creek, L. (2017, May) *Development of 3-D Organotypic Raft Cultures Using Neonatal Stem-Like Keratinocytes to Investigate HPV-mediated Dysplasia*. Presented at the 2017 University of South Carolina Discovery Day.

Bloos, S.M., Pirisi-Creek, L. (2016, May) *Extensive Clonal Expansion of Normal Neonatal Human Keratinocytes Diminishes Transfection Response to HPV-16 DNA*. Presented at the 2016 University of South Carolina Discovery Day.

WORK EXPERIENCE

Paramedic – Vanderbilt LifeFlight Event Medicine, Nashville, TN

Sep 2018 - Present

Firefighter/Paramedic – Wesley Chapel Fire Department, Waxhaw, NC

July 2013 – Apr 2019

Teaching Assistant – University of South Carolina, Columbia, SC

Jan 2017 – May 2018

Crew Leader – Autobell Car Wash, Indian Land, SC

Jan 2013 – Jan 2017

VOLUNTEER EXPERIENCE

East Nashville Magnet High School, Nashville, TN

Aug 2018 - Present

Free Medical Clinic, Columbia, SC

Aug 2016 – May 2018

MedCenter Air, Charlotte, NC

Dec 2017 – July 2018

Low Country Orphan Relief, Charleston, SC

June 2017 – July 2017

Carolina's Medical Center, Monroe, NC

Jan 2015 – July 2015

LICENSURE/CERTIFICATES

National Registry Paramedic (NRP) - #M5030801

North Carolina Paramedic - P090149

Tennessee Paramedic - 212077

North Carolina Firefighter - 2054729

Advanced Cardiovascular Life Support (ACLS)

Pediatric Advanced Life Support (PALS)

PROFESSIONAL SOCIETIES

Tennessee Public Health Association

Aug 2018 – Present

Alpha Epsilon Delta (pre-medical honor society)

Aug 2016 – May 2018