

## MONICA LEWIS, PhD

University of Montevallo

Station 6480

Montevallo, AL 35115

(205) 665-6465

[mlewis13@montevallo.edu](mailto:mlewis13@montevallo.edu)

### **EDUCATION**

Doctor of Philosophy	Cancer Biology <b>University of Alabama at Birmingham</b> Birmingham, AL	2016
Bachelor of Science	Chemistry, <i>Suma Cum Laude</i> <b>Alabama State University</b> Montgomery, AL	2009

### **TRAINING AND PROFESSIONAL DEVELOPMENT**

IRACDA-Mentored Experiences in Research, Instruction, and Teaching (MERIT) Postdoctoral Fellow	University of Alabama at Birmingham Birmingham, AL	2016-2019
Center for the Integration of Research Teaching and Learning (CIRTL) Practitioner Certificate	University of Alabama at Birmingham Birmingham, AL	2018
Mentoring and Leadership Certificate	University of Alabama at Birmingham Birmingham, AL	2018
Center for the Integration of Research Teaching and Learning (CIRTL) Associate Certificate	University of Alabama at Birmingham Birmingham, AL	2016
Translational & Molecular Sciences Certificate	University of Alabama at Birmingham Birmingham, AL	2016

### **TEACHING AND RELATED EXPERIENCE**

<i>Biology Instructor</i> University of Montevallo, Montevallo, AL	Fall 2019
<i>Adjunct Instructor</i> Human Anatomy and Physiology I Oakwood University, Huntsville, AL	Spring 2019
<i>Adjunct Instructor</i> Principles of Biology University of Montevallo, Montevallo, AL	Fall 2018
<i>Co-Instructor</i> Introduction to Microbiology University of Alabama at Birmingham, Birmingham, AL	Summer 2018
<i>Tutor</i> Start the Adventure in Reading (STAIR) Birmingham Henry J. Oliver Elementary, Birmingham, AL	2017-2018
<i>Course Coordinator</i> University of Alabama at Birmingham, Birmingham, AL	
Cancer Immunology	2017
Cancer Immunology Journal Club	2017

### *Invited Lectures*

“Sexual Reproduction and the Power of Genetics” Oakwood University, Huntsville, AL	2018
“Gene Regulation” Oakwood University, Huntsville, AL	2018
“The Basic Principles of Heredity” Oakwood University, Huntsville, AL	2018
“Muscles and Muscle Tissue” Oakwood University, Huntsville, AL	2018
“Carbohydrates and Glycoproteins” Lawson State Community College, Bessemer Campus, Bessemer, AL	2018
“Biotechnology” Oakwood University, Huntsville, AL	2017
“Nucleic Acids” Lawson State Community College, Bessemer Campus, Bessemer, AL	2017
“Cancer” Oakwood University, Huntsville, AL	2017
“Immune Pathology” Jefferson State Community College, Clanton Campus, Clanton, AL	2016

### *Student Mentor*

University of Alabama at Birmingham, Birmingham, AL Jaden Cowan (Doctoral) Jeremiah Bell (Master’s) Abigail Gauthier (Medical) Brooklyn Hornbuckle (Undergraduate) Weam Kaboha (Master’s) Reham Abed (Master’s) Tolulope Dosunmu (Master’s) Ananya Bandyopadhyay (Undergraduate) Alexa Sughroue (Undergraduate)	2013-2019
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### *Science Instructor*

Physiology Understanding Week Deer Valley Elementary School, Birmingham, AL	2014
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### **RESEARCH EXPERIENCE**

IRACDA-Mentored Experiences in Research, Instruction, and Teaching (MERIT) 2016

Postdoctoral Fellow, *Department of Dermatology*

**University of Alabama at Birmingham**, Birmingham, AL

Advisor: Nabiha Yusuf, PhD

- Investigating the roles of the innate immune system in breast cancer health disparities and in the development of skin cancer

Graduate Student Assistant, *Department of Pathology*

2010-2016

**University of Alabama at Birmingham**, Birmingham, AL

Advisor: Douglas Hurst, PhD

Dissertation: *Regulation of Breast Cancer Metastasis by SIN3 Chromatin Remodeling Complexes*

- Used molecular biology techniques to determine roles of SIN3 paralog-specific functions in breast cancer metastasis

Post-baccalaureate Research Education Program Scholar, *Department of Pharmacology and Toxicology* 2009-2010  
**University of Alabama at Birmingham**, Birmingham, AL  
 Advisor: Coral Lamartiniere, PhD  
 • Studied role of Bisphenol A on mammary tumor growth

**FELLOWSHIPS AND FUNDING**

“Mechanisms Elicited By Type I Interferons In Cutaneous Photocarcinogenesis” 2018  
 • Diversity Supplement to NIH 3R01AR071157

Mentored Experiences in Research, Instruction, and Teaching (MERIT) Postdoctoral Fellow 2016-present

University of Alabama at Birmingham, Birmingham, AL  
 • Competitive program fellowship to enhance teaching and research skills  
 Howard Hughes Med-Grad Fellowship 2010-2016

University of Alabama at Birmingham, Birmingham, AL  
 • Competitive fellowship to promote translational research

Comprehensive Minority Faculty and Student Development Program Fellowship 2010-2013  
 University of Alabama at Birmingham, Birmingham, AL

- Competitive individual fellowship that provides tuition and stipend support

**HONORS AND AWARDS**

Everyday Hero Honoree, Susan G. Komen North Central Affiliate, Birmingham, AL 2017

Outstanding Research Presentation, Pathology Trainee Research Day, UAB 2016

Beverly Laird, PhD Outstanding Patient Advocate Award, Susan G. Komen North Central Affiliate, Birmingham, AL 2015

Featured Breast Cancer Speaker, Purple and Pink Tea, New Community Baptist Church, Birmingham, AL 2015

Howard Hughes Med-Grad Travel Award, UAB 2015

Graduate Student Government Travel Award, UAB 2015

Bertram-Marx Travel Award, Comprehensive Cancer Center, UAB 2015

1<sup>st</sup> Place Oral Presentation, Graduate Student Research Day, UAB 2015

2<sup>nd</sup> Place Oral Presentation, Graduate Student Research Day, UAB 2013

**SERVICE**

Panelist, Active Learning Workshop, Stillman College, Tuscaloosa, AL 2019

Panelist, Career Pathways in Biomedical Sciences, BMD 380, UAB, Birmingham, AL 2019

Science/Engineering Fair Judge, Oakwood Adventist Academy, Huntsville, AL 2018

Education Committee Chair, Susan G. Komen North Central Affiliate, Birmingham, AL 2018

Science Fair Judge, Islamic Academy of Alabama, Birmingham, AL 2018

Planning Committee and Moderator, IRACDA Annual Meeting, Birmingham, AL 2017

Moderator, Postdoctoral Research Day, UAB 2017-2018

Grant Review Committee, Susan G. Komen North Central Affiliate, Birmingham, AL 2016-present

Junior Board of Directors, Susan G. Komen North Central Affiliate, Birmingham, AL 2016

Volunteer, Birmingham Reads, South Hampton Elementary School, Birmingham, AL 2016

Scholarship Committee, UAB Black Graduate Student Association 2016

Race Committee, I AM THE CURE Co-Chair, Race for the Cure, Susan G. Komen North Central Affiliate, Birmingham, AL 2015

Director of Mentoring, UAB Black Graduate Student Association 2014-2015

UAB Exhibitor, Annual Biomedical Research Conference for Minority Students, San Antonio, TX	2014
UAB Undergraduate Expo, Judge, UAB	2014
Race Committee, Susan G. Komen Race for the Cure, Birmingham, AL	2014-present
Science Fair Judge, St. Rose Academy, Birmingham, AL	2013-2014
Interview Committee for Cancer Biology, UAB	2011-2016

### **PUBLICATIONS**

1. Libby EF, Liu J, Li Y, **Lewis MJ**, Demark-Wahnefried W, and Hurst DR. Globular adiponectin enhances invasion in human breast cancer cells. *Oncology Letters*. (2016) 11:633-641.
2. Li Y, Libby EF, **Lewis MJ**, Liu J, Shacka JJ, and Hurst DR. Increased autophagic response in a population of metastatic breast cancer cells. *Oncology Letters*. (2016) 12: 523-529.
3. **Lewis MJ**, Liu J, Libby EF, Lee M, Crawford NP, and Hurst DR. SIN3A and SIN3B Differentially Regulate Breast Cancer Metastasis. *Oncotarget*. (2016) 7(48):78713-78725.
4. Arbiser JL, Nowak R, Michaels K, Skabytska Y, Biedermann T, **Lewis MJ**, Bonner MY, Rao S, Gilbert LC, Yusuf N, Karlsson I, Fritz Y, Ward NL. Evidence for biochemical barrier restoration: Topical solenopsin analogs improve inflammation and acanthosis in the KC-Tie2 mouse model of psoriasis. *Scientific Reports*. (2017) Sep 11;7(1):11198. doi: 10.1038/s41598-017-10580-y.