

Luther Alexander Liggett
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Education

University of Colorado School of Medicine Aurora, CO
Ph.D. in Cell, Stem Cell, and Developmental Biology, 2012-Present

Case Western Reserve University Cleveland, OH
M.S. in Biology May 2012

Case Western Reserve University Cleveland, OH
B.S. in Biomedical Engineering May 2009

Dublin Coffman HS Dublin, OH
May 2005

Experience

Research Assistant University Hospitals of Cleveland at Case Western Reserve University 2005-2007

- Responsible for the creation and execution of certain lab protocols involving the study of rat metabolism under dynamic conditions
- Induced cancer in rats to determine certain effects of metabolic stresses on the growth and metastasis of tumor cells
- Performed hindlimb suspension studies of atrophy in reduced gravity environment

Research Assistant Center for Global Health and Diseases, Case Western Reserve University 2007-2008

- Isolated and cultured Schistosoma bacteria
- Performed drug screens to identify Schistosoma susceptibilities

Co-Founder/Director of Technology for CREATE 2006-2008

- Worked with the Chief of Colorectal Surgery at University Hospitals of Cleveland in order to design assistant technology for use during surgery
- Designed electronic autonomous interface for endoscopic surgery
- Responsible for documentation of individual research
- Maintained the website (www.case.edu/orgs/create), and Official documentations for research groups

Research Assistant Center for Imaging Research, Case Western Reserve University 2008

- Responsible for the planning and design of a novel handheld Optical Coherence Tomography scanner to be used in oral cancer imaging

Laboratory Assistant University Hospitals Radiology, NCFR Case Center for Imaging 2008-2009

- Responsible for the growth and excise of tumor tissue in small animals
- Responsible for synthesis, purification and testing of enzyme-antibody targeting complex

Research Assistant Cleveland Clinic Lerner Research Institute 2009-2012

- Investigation of Ezrin/Moesin protein responsibilities in B cell activation
- Investigation of the role the MAPK signaling pathway plays in B cell activation

Activities

- Varsity Cross Country 2005-2007
- Varsity Track/Field 2005-2007
- Co-Founder and Director of Technology for Case's Rising Engineers and Technological Entrepreneurs (CREATE) 2006-2012
- Biomedical Engineers Society 2005-2012
- Teaching Assistant Human Anatomy at Case Western Reserve University 2011
- Teaching Assistant Human Physiology at Case Western Reserve University 2012
- Teaching Assistant Core Paper Discussions University of Colorado 2014
- Teaching Assistant UCSC Genome Browser Workshop 2014

Honors /Publications

- Case Western President's Scholarship 2005-2009
- Dean's High Honors List 2005-2006
- Academic Honors
- Silber Cancer Research Grant Candidate 2008
- Cross Country/Track Academic Honors
- NASA Transdisciplinary Research on Energetics and Cancer (TREC) 2007-2008
- Armed Forces Health Professions Scholarship (HPSP) 2008
- Golden Key
- Published in Medicine & Science in Sports & Exercise: May 2009 - Volume 41 – Issue – p 203

Computer Skills

- Zemax
- Matlab
- Java
- C++
- HTML
- Bash
- R
- Python
- CSS Stylesheets
- Linux

References

-Michael McMurray Ph.D. University of Colorado School of Medicine, Department of Cell, Stem Cell, and Developmental Biology. Assistant Professor of Cell and Developmental Biology
303-724-6569

-Dennis Roop Ph.D. University of Colorado School of Medicine, Department of Dermatology.
Director, Center for Regenerative Medicine and Stem Cell Biology 303-724-3042

-Ron Oldfield Ph.D. Case Western Reserve University, Department of Biology, Instructor of Biology
216-368-5013