

Louis Taylor Rodgers

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EDUCATION

B.S. Chemistry	Centre College Danville, KY Cumulative GPA: 3.83 Math/Science GPA: 3.93 <i>Magna Cum Laude</i>	May 2015
M.D./Ph.D. Candidate	University of Kentucky College of Medicine Lexington, KY	June 2017 – Present

RESEARCH EXPERIENCE

Kentucky Clinical Trials Network (NCTN) Coordinating Center Lexington, KY

Administrative Research Assistant **December 2017 – Present**
Supervisors: Kristine Damron & Mindy Dowden-Kruger

- Support studies, operations and site study teams conducting clinical trials across the state.

University of Kentucky; Lexington, KY **Sanders-Brown Center on Aging**

MD/PhD Summer Research Rotation **June – December 2017**
Supervisors: Bjoern Bauer, Ph.D. & Anika Hartz, Ph.D.

- Optimized the X-CLARITY™ tissue clearing system for use in the lab.
- Successfully cleared mouse whole brain, brain slices, and spinal cord.
- Labeled brain slices with anti-collagen IV antibody and imaged blood-brain barrier vasculature.

National Cancer Institute, National Institute of Health; Bethesda, MD **Clinical Pharmacology Program, Neuro-Oncology Branch**

Postbaccalaureate CRTA Fellow **July 2015 – May 2017**
Supervisors: Katherine Warren, M.D. & William Figg, Pharm.D.

- Conducted pharmacokinetic (PK) studies in an effort to develop new therapeutic strategies for the treatment of cancers in children with tumors of the central nervous system.
- Validated uHPLC-MS/MS methods for drug quantification.
- Attend weekly lab meetings with Figg lab (clinical pharmacology/genitourinary malignancies) and Warren lab (pediatric neuro-oncology).

Centre College, Danville, KY

Chemistry Research Student

June 2013 – May 2015

Supervisor: Kerry Paumi, Ph.D.

- Worked on the project “synthesis, characterization, and evaluation of peptide-linked metal chelators for the treatment of Alzheimer’s disease”
- Synthesized small peptide fragments and linked to metal chelating ligands to be used in fluorescence assays to determine efficacy in preventing/reversing amyloid-beta plaque formation.

The Johns Hopkins University School of Medicine; Baltimore, MD **Department of Pharmacology & Molecular Sciences**

Pharmacology Research Intern

June 2014 – August 2014

Supervisor: Philip A. Cole, M.D./Ph.D.

- Worked on the project “regulation of substrate selectivity of p300/CBP acetyltransferase”
- Utilized protein expression, protein purification, and radioactive enzyme and protein microarray assays to screen for novel substrates of p300/CBP acetyltransferase and to determine the effect of the inhibitor SGC112 on the degree of protein acetylation.

PUBLICATIONS - PUBLISHED

Peer CJ, Jung-Min L, Roth J, **Rodgers L**, Nguyen J, Annunziata CM, Minasian L, Kohn EC, Figg WD. Population pharmacokinetic analyses of the effect of carboplatin pretreatment on olaparib in recurrent or refractory women’s cancers. *Cancer Chemother. Pharmacol.* 2017 June; 80(1), 165-175. doi: 10.1007/s00280-017-3346-1

Rodgers L, Peer CJ, Figg WD. Diagnosis, staging, and risk stratification in prostate cancer: utilizing diagnostic tools to avoid unnecessary therapies and side effects. *Cancer Biol Ther.* 2017 May. doi: 10.1080/15384047.2017.1323600

Miyahara H, Yadavilli S, Natsumeda M, Rubens J, **Rodgers L**, Kambhampati M, Taylor I, Kaur H, Asnagli L, Eberhart CG, Warren KE, Nazarian J, Raabe EH. The dual mTOR

kinase inhibitor TAK 228 inhibits tumorigenicity and enhances radiosensitication in diffuse intrinsic pontine glioma. *Cancer Lett.* 2017 Apr. doi: 10.1016/j.canlet.2017.04.019

League-Pascual JC, McCully CM, Shandilya S, Ronner L, **Rodgers L**, Cruz R, Peer CJ, Figg WD, Warren KE. Plasma and cerebrospinal fluid pharmacokinetics of select chemotherapeutic agents following intranasal delivery in a non-human primate model. *J. Neurooncol.* 2017 Mar; 1-7. doi: 10.1007/s11060-017-2388-x

Peer CJ, Ronner L, **Rodgers L**, McCully CM, Warren KE, Figg WD. Quantification of temozolomide in nonhuman primate fluids by isocratic ultra-high performance liquid chromatography-tandem mass spectrometry to study brain tissue penetration following intranasal or intravenous delivery. *Separations.* 2016 Feb; 3(1), 4. doi: 10.3390/chromatography3010004

PUBLICATIONS – IN PREPARATION

Rodgers L, Maachani UB, McCully CM, Voronia I, Cruz R, Peer CJ, Figg WD, Monje M, Souweidane MM, Warren KE. Optimizing Pharmacokinetic and Pharmacodynamic Effects of Panobinostat for the Treatment of Diffuse Intrinsic Pontine Glioma. *in preparation.*

POSTERS

Rodgers L, McCully CM, Peer CJ, Figg WD, Warren KE. (2016, June). *Plasma and cerebrospinal fluid (CSF) pharmacokinetics of panobinostat following oral administration to nonhuman primates. Poster presented at the 17th International Symposium on Pediatric Neuro-Oncology, Liverpool, ENG. Neuro. Oncol.* 2016; 18 (suppl. 3), iii55. doi: 10.1093/neuonc/now073.33

Rodgers L, McCully CM, Peer CJ, Figg WD, Warren KE. (2016, April). *Plasma and cerebrospinal fluid (CSF) pharmacokinetics of panobinostat following oral administration to nonhuman primates. Poster presented at the NIH Postbac Poster Day, Bethesda, MD.*

Zucconi B, **Rodgers L**, Cole PA. (2015, April). *Regulation of substrate selectivity of p300/CBP acetyltransferase. Poster presented at the 8th Centre College Rice Symposium, Danville, KY.*

Rodgers L*, Hart M*, Paumi KP. (2015, April). *Synthesis of peptide-linked metal chelators as a potential treatment for alzheimer's disease. Poster presented at the 8th Centre College Rice Symposium, Danville, KY.*

*authors contributed equally to poster

Theodore E*, **Rodgers L***, Bloom J, Fieberg J. (2015, April). *Identifying ancient glass: the role of x-ray fluorescence (XRF) spectroscopy in art historical research*. **Poster presented** at the 8th Centre College Rice Symposium, Danville, KY.

*authors contributed equally to poster

Rodgers L*, Hart M*, Paumi KP. (2015, April). *Synthesis of peptide-linked metal chelators as a potential treatment for alzheimer's disease*. **Poster presented** at the University of Kentucky Undergraduate Research in Chemistry Regional Poster Competition, Lexington, KY.

*authors contributed equally to poster

Rodgers L, Parekh M, Paumi KP. (2014, April). *Synthesis of peptide-linked metal chelators as a potential treatment for alzheimer's disease*. **Poster presented** at the 7th Centre College Rice Symposium, Danville, KY.

RESEARCH ORAL PRESENTATIONS

“Synthesis of peptide-linked metal chelators as a possible treatment for alzheimer's disease” **Apr 2015**

Centre College, Danville, KY

Presented to: College faculty, students, and families

“Synthesis of peptide-linked metal chelators as a possible treatment for alzheimer's disease” **Nov 2013**

Kentucky Academy of Science (KAS) 99th Annual Meeting, Morehead, KY

Presented to: College faculty, students, and families

LECTURES AND ACADEMIC PRESENTATIONS

Neurological Examination, Human Neuropsychology course, Centre College, 2017

HONORS & AWARDS

2016	Commended poster in high grade gliomas and DIPG category, <i>International Symposium on Pediatric Neuro-Oncology</i>
2015	Inorganic Chemistry Award, <i>Centre College</i>
2011 - 2015	Dean's List, <i>Centre College</i>
2013-2015	Academic Honor Roll, <i>Southern Athletic Association</i>
2014	Junior Marshal, <i>Centre College</i>
2013	2nd Place Presentation in Organic/Inorganic Chemistry Division, <i>Kentucky Academy of Science</i>
2013	Organic Chemistry Award, <i>Centre College</i>

WORK EXPERIENCE

2015 – 2017	Postbac CRTA Fellow, National Cancer Institute
2013 - 2014	House Manager, Norton Center for the Arts
2012 - 2014	Chemistry Laboratory Teaching Assistant, Centre College
2012 - 2013	Head Usher, Norton Center for the Arts
2011 - 2012	Usher, Norton Center for the Arts

SCHOLARLY AND PROFESSIONAL MEMBERSHIPS

Clubs and Organizations:

2017 – Present	Curriculum Committee, <i>UKCOM</i>
2017 – 2018	LCME Independent Student Analysis Committee – M1 point person
2015	Phi Beta Kappa – <i>Beta Chapter, Centre College</i>
2014 - 2015	President of American Chemical Society, <i>Centre College</i>
2013 - 2015	Chemistry Department Representative, <i>Centre College</i>
2013 - 2015	Gamma Sigma Alpha Greek Honorary Society, <i>Centre College</i>
2013 - 2014	Science and Math Representative – SGA Student Senate, <i>Centre College</i>

Athletics:

2011 - 2015	Swim & Dive Team, <i>Centre College</i>
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TECHNICAL SKILLS

- Amine Protecting Group Chemistry
- Column Chromatography
- Gel Electrophoresis (1D & 2D)
- Nuclear Magnetic Resonance Spectroscopy
- Organic synthesis
- Protein Expression
- Protein Microarray Assay Work
- Protein Purification
- Radioactive Enzyme Assay Work
- Solid-Phase Peptide Synthesis
- Storage Phosphor Imaging
- Thin Layer Chromatography
- Ultra-high performance liquid chromatography tandem mass spectrometry
- X-CLARITY™ tissue clearing