

EMILY J. TSCHUMPER (CARRELL), PHARMD, MS, BCPS

Contact Information

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I. EDUCATIONAL BACKGROUND

Doctor of Pharmacy The University of Mississippi, Oxford, Mississippi	2011 - 2015
Bachelor of Science in Pharmaceutical Sciences The University of Mississippi, Oxford, Mississippi	2011 - 2012
Master of Science in Theoretical Chemistry The University of Mississippi, Oxford, Mississippi	2009 - 2011
Bachelor of Science in Biochemistry and Chemistry Winona State University, Winona, Minnesota	2004 - 2009

II. POSTGRADUATE RESIDENCY TRAINING

Post-Graduate Year-1 (PGY-1) Pharmacy Practice Residency The Johns Hopkins Hospital, Baltimore, Maryland ASHP-Accredited PGY1 Residency Residency Director: Cathy Walker, RPh	2015 - 2016
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III. LICENSURE AND CERTIFICATIONS

Emergency Medicine Certificate American Society of Health-System Pharmacists	July 2019 - present
Pediatric Advanced Life Support (PALS) American Heart Association	July 2018 - present
Board Certified Pharmacotherapy Specialist National Boards of Pharmacy	July 2017 - present
Mississippi Pharmacist License Mississippi State Board of Pharmacy	September 2016 - present
Advanced Cardiopulmonary Life Support (ACLS) American Heart Association	July 2015 - present
Teaching Certificate The Johns Hopkins Hospital	July 2015 - present

IV. PROFESSIONAL EXPERIENCE

Pharmacy Practice Experience

North Mississippi Medical Center 2016 - Present
Tupelo, Mississippi

Clinical Pharmacist: Emergency Medicine
Pharmacy Assistant Director: Wes Pitts, Pharm.D., BCPS, FASHP

Pharmacy Residency Program Director
Director of Pharmacy: Kristie Gholson, Pharm.D., FASHP

Operations Manager
Pharmacy Assistant Director: Donna Huggins, RPh

Baptist Memorial Hospital-North Mississippi October 2016- 2018
Oxford, Mississippi

PRN Staff Pharmacist
Pharmacy Director: Trey Crumby, Pharm.D.

The Johns Hopkins Hospital June 2015 - 2016
Baltimore, Maryland

Staff Pharmacist: Adult Inpatient Pharmacy
Pharmacy Division Manager: Jennifer Gillespie, Pharm.D., MBA

CVS-Pharmacy June 2012 - 2015
Oxford, Mississippi

Pharmacy Intern
Pharmacy Manager: Deborah Smith, Pharm.D.

V. TEACHING EXPERIENCE

Student Instruction

Clinical Instructor September 2019 - Present
Union University School of Pharmacy, Jackson, Tennessee
Rotation(s): APPE Institutional

Clinical Instructor July 2017 - Present
The University of Mississippi School of Pharmacy, Oxford, Mississippi
Rotation(s): APPE Adult Medicine, APPE Institutional, IPPE Institutional

Graduate Teaching Assistant

May 2009 - May 2011

The University of Mississippi Department of Chemistry, Oxford, Mississippi

Course(s): CHEM 113, CHEM 115, CHEM 116

Resident Instruction**PGY1 Pharmacy Preceptor**

September 2016 - Present

North Mississippi Medical Center, Tupelo, Mississippi

Rotation(s): Central Operations I & II, Emergency Medicine

Interdisciplinary Instruction**Treatment of Dysrhythmias**

December 2019

Relias Emergency Medicine Fellowship Program, Tupelo, Mississippi,

Tranexamic Acid for the Treatment of Acute Hemorrhage in Trauma

November 2019

Trauma Section, Tupelo, Mississippi

Reversing the Bleed

October 2019

Relias Emergency Medicine Fellowship Program, Tupelo, Mississippi,

Rapid Sequence Intubation and Moderate Sedation

August 2019

Relias Emergency Medicine Fellowship Program, Tupelo, Mississippi.

Ketamine for Depression

February 2016

Pharmacist Clinical Pearl, The Johns Hopkins Hospital, Baltimore, Maryland

Introduction to New Antipsychotics: Brexpiprazole and Cariprazine

February 2016

Nursing Clinical Pearl, The Johns Hopkins Hospital, Baltimore, Maryland

All You Need to Know About OTC Medications

February 2016

Patient and Nursing Pearl, The Johns Hopkins Hospital, Baltimore, Maryland

Didactic Instruction**Course Module (Diabetes, stroke, hypertensive emergency/urgency)**

February 2016

Notre Dame of Maryland University, School of Pharmacy, Baltimore, Maryland

Pharmacotherapy and Medication Management: Neurology

January 2016

The University of Maryland-Eastern Shore, School of Pharmacy, Baltimore, Maryland

Clinical Lab Skills: IV Admixture

October 2015

The University of Maryland, School of Pharmacy, Baltimore, Maryland

VI. RESEARCH AND SCHOLARSHIP

Research Experience

Medicinal Chemistry Research Assistant
The University of Mississippi, Oxford, Mississippi

June 2012-August 2012

Theoretical Chemistry Research Assistant
The University of Mississippi, Oxford, Mississippi

August 2010- 2011

Publications

Refereed Publications

6. Wang M, **Carrell EJ**, Chittiboyina AG, Bharathi A, Wang Y, Zhao J, Parcher JF, Khan IA. Concurrent supercritical fluid chromatographic analysis of terpene lactones and ginkgolic acids in *Gingko biloba* extracts and dietary supplements. *Anal Bioanal Chem.* 2016.
5. **Carrell EJ** and Bell A. Sodium thiosulfate for the treatment of warfarin-induced calciphylaxis in a non-dialysis patient. *The Journal of Pharmacology and Pharmacotherapeutics.* Oct-Dec; 6(4):222-4.
4. Wang M, **Carrell EJ**, Ali Z, Avonto C, Parcher JF, Khan IA. Comparison of Three Chromatographic Techniques for the Detection of Mitragynine and other Indole and Oxindole Alkaloids in *Mitragyna speciosa* (Kratom) Plants. *The Journal of Separation Science.* 2014; 80 (10).
3. **Carrell EJ**, Thorne CM, Tschumper GS, Basis set dependence of higher-order correlation effects in π -type interactions. *The Journal of Chemical Physics*, 2012; 136(1), 014103.
2. Hohenstein EG, Jaeger HM, **Carrell EJ**, Tschumper GS, Sherrill CD. Accurate interaction energies for problematic dispersion-bound complexes: homogeneous dimers of NCCN, P₂, and PCCP. *Journal of Chemical Theory and Computation*, 2011; 7(9), 2842-2851.
1. Wilson T, Luebke JL, Morcomb EF, **Carrell EJ**, Leveranz MC, Kobs L, Singh AP. Glycemic responses to sweetened dried and raw cranberries in humans with type 2 diabetes. *Journal of Food Science*, 2010; 75(8), H218-H223.

Non-Refereed Publications

2. Tschumper EJ, "Product Spotlight: RFID Solutions from Intelliguard". *Pharmacy Purchasing and Products.* April 2018 (15:4) Page 18.

1. Strum MW, **Carrell EJ**, Warren M, and Jenkins, MA. SGLT-2 inhibitors for the treatment of type-2 diabetes mellitus. Journal of the Mississippi Pharmacists Association. 2014.

Presentations

Accredited Podium Presentations

4. “Ethics of Treating Patients During Drug Shortages”. North Mississippi Medical Center Ethics Forum. Tupelo, Mississippi, December 2019.
3. “Treatment of Life-Threatening Bleeds: A Therapeutics Update”. North Mississippi Emergency Medicine Symposium. Tupelo, Mississippi. January 2019.
2. “Contributions and Consequences of the Opioid Crisis, and Modes of Treatment for Opioid-Use Disorder”. North Mississippi Medical Center Outcomes Conference. Pickwick Convention Center, Pickwick, Tennessee. August 2018.
1. “Sub-dissociative dosing of ketamine for non-procedural pain in the emergency department”. Pharmacotherapy Rounds Presentation. The Johns Hopkins Hospital, Baltimore, Maryland, December 2015.

Non-Accredited Podium Presentations

18. “Managing Cholesterol”, Mended Hearts Patient Group. North Mississippi Medical Center, Tupelo, Mississippi. July 2017.
17. “Increasing Medication Safety and Efficiency in the Operating Room with RAIN RFID”. National RAIN meeting. Seattle, Washington. July 2017
16. “Trulicity (dulaglutide): The newest GLP-1 agonist”. Advanced Pharmacy Practice Experience: Ambulatory Care, The University of Mississippi, Oxford, Mississippi, November 2014.
15. “VATER syndrome”. Advanced Pharmacy Practice Experience: Advanced Nutritional Support, Baptist Medical Center, Jackson, Mississippi, October 2014.
14. “The difficulty of interpreting U-500 insulin prescriptions: A pilot study”. Senior Seminar Research Day. The University of Mississippi Medical Center, Jackson, Mississippi, October 2014.
13. “Acute otitis media: Overview and treatment”. Advanced Pharmacy Practice Experience: Emergency Medicine, The University of Mississippi Medical Center, Jackson, Mississippi, September 2014.
12. “Stenotrophomonas maltophilia”. Advanced Pharmacy Practice Experience: Infectious Disease, The University of Mississippi Medical Center, Jackson, Mississippi, August 2014.

11. "Sodium thiosulfate: Treatment of warfarin-induced calciphylaxis", Advanced Pharmacy Practice Experience: Adult Medicine, The University of Mississippi Medical Center, Jackson, Mississippi, July 2014.
10. Invited Session Chair, "Meet and Greet: Pharmacy Leaders", American Society of Health-System Pharmacists Summer Meeting, June 2014
9. Invited Session Chair, "*Career Pearls: Days in the Lives of Health-System Pharmacists*", American Society of Health-System Pharmacists, Midyear Clinical Meeting, December 2013
8. Invited Session Chair, "*Fundamental Strategies to Secure a Residency: Getting a Head Start as a P1-P3*", American Society of Health-System Pharmacists Midyear Clinical Meeting, December 2013
7. Invited Student Interviewer, "*School of Pharmacy Applicant Day*", University of Mississippi, Oxford, Mississippi, February 2013
6. Invited Panel Speaker, "Students talking to students: What I wish I knew about studying (STEM) during my first year", University of Mississippi, Oxford, Mississippi, October 2012
5. "Diabetes: What is it, and how can you prevent it?", APhA Operation Diabetes, Ingomar Attendance Center, Ingomar, Mississippi, February 2013.
4. "Reducing adverse effects: Synthesis of selective COX-2 inhibitors" University of Mississippi, Oxford, Mississippi, May 2012.
3. "Basis set dependence of higher-order correlation effects in π -type interactions". Thesis defense, University of Mississippi, Oxford, Mississippi, August 2011.
2. "Exhaustive characterization of low-lying N-substituted benzene structures" University of Mississippi, Oxford, Mississippi, January 2011.
1. "Amplifying your genes: A brief look into polymerase chain reaction" University of Mississippi, Oxford, Mississippi, October 2010

Poster Presentations

14. Carroll B, Clark K and **Tschumper EJ**, "Adverse effects of apixaban (Eliquis) in patients with end-stage renal disease (ESRD)". American Society of Health-System Pharmacists Midyear meeting, Las Vegas, Nevada, December 2019.
13. Dupuis K and **Tschumper EJ**, "Evaluation of intermittent versus continuous infusions of intravenous antibiotics in the community hospital setting". American Society of Health-System Pharmacists Midyear meeting, Las Vegas, Nevada, December 2019.

12. Clark MD, **Tschumper EJ**, and Pitts. W, "Assessment of vancomycin trough levels post-implementation of beside barcoding alerts. American Society of Health-System Pharmacists Midyear meeting, Anaheim, California, December 2018.
11. **Carrell EJ**, Hockings J, Johnson L, Strum MW, and Chandler AM, "Zoledronic acid for improving T-scores in male osteoporosis after multiple treatment failure", American Society of Health-System Pharmacists Midyear meeting, Anaheim, California, December 2014.
10. **Carrell EJ**, Ogletree B, "The difficulty of interpreting U-500 prescriptions: A pilot study", Annual Mississippi Society of Health-System Pharmacists meeting, Natchez, Mississippi, July 2014.
9. **Carrell EJ**, Strum MW, and Chandler AM, "Deep vein thrombosis associated with clomiphene use for the treatment of hypogonadotropic hypogonadism", Annual Mississippi Society of Health-System Pharmacists meeting, Jackson, Mississippi, July 2013.
8. **Carrell EJ**, Kirkikis M, Strum MW, and Chandler AM, "Evaluation of linagliptin use post cardiac transplant and effects on glycemic control and cyclosporine levels", American Society of Health-System Pharmacists Midyear meeting, Las Vegas, Nevada, December 2012.
7. Carrell EJ, **Kirkikis M**, Strum MW, and Chandler AM, "Evaluation of linagliptin use post cardiac transplant and effects on glycemic control and cyclosporine levels", School of Pharmacy Research Day, Oxford, Mississippi, October 2012.
6. **Carrell EJ**, Thorne CM, Tschumper GS, "Identification of compact basis sets for the reliable characterization of the basis set dependence of higher-order correlation effects in π -type interactions", Southeastern Theoretical and Computational Association, Mississippi State, Starkville, Mississippi, May 2011.
5. **Carrell EJ**, Tschumper GS, "Compact basis sets for the reliable characterization of the basis set dependence of higher-order correlation effects in π -type interactions", Mississippi EPSCoR Conference, Starkville, Mississippi, April 2011.
4. **Carrell EJ**, Tschumper GS "Identification of compact basis sets for the reliable characterization of the basis set dependence of higher-order correlation effects in π -type interactions", Nineteenth Annual Conference on Current Trends in Computational Chemistry Jackson, Mississippi, October 2010.
3. **Scardino DJ**, McDowell M, Carrell EJ, Graham, Hammer N, "The multiphoton ionization spectrum of methyl iodine revisited: Fragmentation patterns from highly excited states", Mississippi EPSCoR Conference, Jackson, Mississippi, April 2010.
2. Wilson T, Luebke JL, Morcomb EF, **Carrell EJ**, Leveranz MC, Kobs L, Singh AP, "Glycemic response of type 2 diabetics to sweetened, dried cranberries", Experimental Biology Conference, New Orleans, Louisiana, April 2009.

1. **Carrell EJ**, Ng CBW, "Efficiencies of biodiesel fuels: A physical chemistry approach", Winona State University Annual Research Symposium, Winona, Minnesota, April 2009.

VII. SERVICE

National Roles

Advisory Group Member, New Practitioners Forum American Society of Health-System Pharmacists	June 2015-June 2016
Chair, Pharmacy Student Forum Executive Committee American Society of Health-System Pharmacists	May 2014-May 2015
Vice-Chair, Pharmacy Student Forum Executive Committee American Society of Health-System Pharmacists	May 2013-May 2014
Liaison, Community and eCommunications Advisory Group American Society of Health-System Pharmacists	May 2013-May 2014
Liaison, Career Development and Education Advisory Group American Society of Health-System Pharmacists	May 2013-May 2014

State Roles

Co-Chair of Practice Advancement Initiative Committee Mississippi Society of Health System Pharmacists	July 2017- 2018
Student Society Representative Mississippi Society of Health System Pharmacists	May 2013-May 2014

Local Roles

Member, Preceptor Advisory Committee The University of Mississippi School of Pharmacy	May 2019- Present
Member, Ethics Committee North Mississippi Medical Center, Tupelo, Mississippi	June 2018- Present
Member, Trauma Section North Mississippi Medical Center, Tupelo, Mississippi	June 2018- Present
Member, Emergency Medicine Section North Mississippi Medical Center, Tupelo, Mississippi	June 2018- Present

Alumni Member, Lecture and Alumni Affairs Committee The University of Mississippi School of Pharmacy	September 2016-Present
Founder, Student Society of the Colleges of Clinical Pharmacy The University of Mississippi School of Pharmacy	December 2013
President, Student Society of Health-System Pharmacists The University of Mississippi School of Pharmacy	May 2013- 2014
President-Elect, Student Society of Health-System Pharmacists The University of Mississippi School of Pharmacy	May 2012- 2013
Treasurer, Student Society of the American Pharmacists Association The University of Mississippi School of Pharmacy	May 2012- 2013
Pharmacy Senator, Graduate Student Council The University of Mississippi	May 2012- 2013
Student Senate Representative, Chemistry Club Winona State University	May 2008- 2009

VIII. HONORS AND AWARDS

Chancellor's Honor Roll The University of Mississippi, Oxford, Mississippi	December 2014
American College of Clinical Pharmacy Clinical Challenge, 3rd place The University of Mississippi Local Section, Jackson, Mississippi	August 2014
Student Poster Presentation, 2nd place Mississippi Society of Health-System Pharmacists, Natchez, Mississippi	July 2014
Cardinal Health National Leadership Conference Nominee The University of Mississippi, Oxford, Mississippi	May 2014
Class of 2015 Most Dependable Classmate The University of Mississippi, Jackson, Mississippi	May 2014
Phi Lambda Sigma-Pharmacy Leadership Society Initiate The University of Mississippi, Oxford, Mississippi	May 2013
Distinguished Research Citation The University of Mississippi, Oxford, Mississippi	May 2013
Patient Counseling Competition, 3rd place The University of Mississippi, Oxford, Mississippi	May 2013

Dean's List
Winona State University, Winona, Minnesota

May 2006- 2007

President's List of High Distinction
Western Technical College, La Crosse, Wisconsin

May 2005

IX. PROFESSIONAL WORKSHOPS

ASHP Residency Design and Conduct Workshop
2018 ASHP National Preceptor's Conference

October 2018

ASHP Student Leadership Workshop
2014 ASHP Summer Meeting, Las Vegas, Nevada

June 2014

ACCP Student Workshop
2014 ACCP Emerge from the Crowd, Rosemont, Illinois

April 2014

Student Leadership Workshop
2013 ASHP Midyear Clinical Meeting, Orlando, Florida

December 2013

Phi Lambda Sigma Leadership Retreat
The University of Mississippi, Oxford, Mississippi

September 2013

Phi Lambda Sigma Leadership Retreat
The University of Mississippi, Oxford, Mississippi

September 2012

X. PROFESSIONAL AFFILIATIONS

Mississippi Society of Health-System Pharmacists
American Society of Health-System Pharmacists
Maryland Society of Health-System Pharmacists

August 2016- Present
September 2011-Present
August 2015- June 2016

REFERENCES

Dr. Laurie W. Fleming
Director of Experiential Programs and Experiential Affairs
The University of Mississippi, Oxford, Mississippi
lw Fleming@umc.edu

Dr. John Bentley
Chair and Professor of the Department of Pharmacy Administration
Interim Director for the Center of Pharmaceutical Marketing and Management
The University of Mississippi, Oxford, Mississippi
phjpb@olemiss.edu

Dr. Kristie Gholson
Director of Pharmacy
North Mississippi Medical Center
Tupelo, Mississippi
Kristie@nmhs.net