

Catherine E. O'Brien, Pharm.D.
Curriculum Vitae

Business

4301 West Markham Street #522
Little Rock, AR 72205
(501) 364-1828

Licensure: Arkansas State Board of Pharmacy, 2005 - present

EDUCATION AND TRAINING

2006 – 2008	Multidisciplinary Clinical Pharmacology Fellowship University of Arkansas for Medical Sciences (UAMS) College of Pharmacy Little Rock, AR Fellowship Director: Amy Franks, Pharm.D.	
2005 – 2006	Pharmacy Practice Residency, UAMS Hospital Little Rock, AR	
2001–2005	UAMS College of Pharmacy Little Rock, AR	Doctor of Pharmacy with High Honors May 2005
1992–1994	University of Arkansas at Little Rock Little Rock, AR	Bachelor of Science in Chemistry August 1994
1988–1991	Louisiana Tech University Ruston, LA	Chemistry Major

ACADEMIC APPOINTMENTS

2008 – Present	Assistant Professor Department of Pharmacy Practice UAMS College of Pharmacy, Little Rock, AR	
2005 – 2008	Clinical Instructor UAMS College of Pharmacy Little Rock, AR	

PROFESSIONAL EXPERIENCE

2008 – Present	Associate Pharmacologist Pediatric Pharmacology Research Unit Arkansas Children's Hospital, Little Rock, AR	
2008 – Present	Clinical Pharmacist, Arkansas Children's Hospital Little Rock, AR	

2007 – Present Clinical Pharmacist, Adult Cystic Fibrosis Program of Arkansas
UAMS, Little Rock, AR

2006 – 2008 Clinical Pharmacist, Internal Medicine Cardiology Service
UAMS, Little Rock, AR

2005 – 2008 Relief Pharmacist, Cantrell Drug
Little Rock, AR

2005 – 2006 Clinical Pharmacist, Coumadin Clinic
UAMS, Little Rock, AR

1995 – 2001 Research Associate, Center for Osteoporosis and Metabolic Bone
Disease (Principal Investigator: Robert Jilka, Ph.D.)
UAMS, Little Rock, AR

RESEARCH EXPERIENCE

Extramural Funding (Fellowship Projects)

Principal / Junior Investigator, “Effect of Lubiprostone on Nutritional Status and Pulmonary Function in Adults with Cystic Fibrosis,” (Cindy D. Stowe, Senior Investigator) American Society of Health System Pharmacists (ASHP) Foundation Junior Investigator Research Grant, **FUNDED**. May 2007 – April 2009.

Principal Investigator, “Short Term Safety and Efficacy of Lubiprostone in Adults with Cystic Fibrosis.” Takeda and Sucampo Pharmaceuticals, **FUNDED**. June 2008 – June 2009.

Collaborative Research Projects

Principal Investigator, “Socio-behavioral Skills of Pharmacy Graduates: Comparison of Employer and Graduate Opinions,” (Cindy D. Stowe, Schwanda Flowers, co-investigators), 2008-present.

Fellowship Projects

Co-investigator, “Utility of the Multiple-Mini Interview (MMI) in the Admissions Process of the College of Pharmacy,” (Cindy D. Stowe, Principal Investigator) UAMS College of Pharmacy, 2007 - Present.

Co-investigator, “Longitudinal Evaluation of Pharmacy Students’ Communication Skills,” (Cindy D. Stowe, Principal Investigator) UAMS College of Pharmacy, 2007 – Present.

Principal Investigator, “Description of Drug Therapy in Arkansas State Employees with a Diagnosis of Metabolic Syndrome,” UAMS College of Pharmacy, 2006.

PEER-REVIEWED PUBLICATIONS

Franks AM, **O'Brien CE**, Stowe CD, Wells TG, Gardner SF. Candesartan cilexetil effectively reduces blood pressure in hypertensive children, *Annals of Pharmacotherapy* 2008; 42: 1388-95. DOI 10.1345/aph.1L212

O'Brien CE, Harik N, James L, Seib P, Stowe CD. Cesium-induced QT-interval prolongation in an adolescent, *Pharmacotherapy* 2008; 28(8): 1059-1065.

O'Brien CE, Franks AM, Stowe CD. Multiple rubric-based assessments of student case presentations, *AJPE* 2008; 72 (3): Article 58. Epub ahead of print June 15, 2008.

Hutchison LC, **O'Brien CE**. Changes in pharmacokinetics and pharmacodynamics in the elderly patient, *Journal of Pharmacy Practice* 2007; 20 (1): 4-12.

ABSTRACTS AND MEETING PRESENTATIONS

Stowe CD, Flowers S, Warmack TS, **O'Brien CE**, Gardner SF. Admission Objective Structure Clinical Examination (OSCE): Multiple-Mini Interview (MMI). *AJPE* 2008; 72(3) Article 72: 56. Poster Presentation, American Association for Colleges of Pharmacy (AACP) Annual Meeting, July 2008, Chicago IL.

Stowe CD, **O'Brien CE**, Warmack TS, Gardner SF. Communication Skill Development: OSCE Assessment of Lay and Healthcare Provider Encounters. *AJPE* 2007; 71(3) Article 60: 14. Poster presentation, AACP Annual Meeting, July 2007, Orlando FL.

O'Brien CE, Franks AM, Dickey K, Stowe CD. Multiple Rubric-Based Assessments of Student Case Presentations in Recitation. *AJPE* 2007; 71(3) Article 60: 21. Poster presentation, AACP Annual Meeting, July 2007, Orlando, FL.

O'Brien CE. Cross-Sectional Study of Gabapentin for Sleep in Elderly Patients. Platform presentation, Midwest Pharmacy Resident Conference, April 2006, Omaha, NE.

Jilka RL, Lecka-Czernik B, Ali AA, **O'Brien CE**, Weinstein RS, Manolagas SC. Activation of PPAR γ 2 by Rosiglitazone Causes Bone Loss Associated with Increased Marrow Adiposity and Decreased Osteoblast Number in Mice. *J. Bone Miner. Res.* 16 (Sup. 1): SU020, 2001. Poster presentation, 23rd Annual Meeting of the American Society for Bone and Mineral Research (ASBMR), October 2001, Phoenix, AZ.

Digregorio-Taguchi GB, Gubrij I, **Smith C**, Parfitt AM, Manolagas SC, Jilka RL. The Transit Amplifying Mesenchymal Progenitor Cell Compartment, not the Stem Cell Compartment, is the Principal Site of Control of Osteoblast Production in Normal and Pathologic Bone Remodeling. *J. Bone Miner. Res.* 15 (Sup. 1): SU 185, 2000. Poster presentation, 22nd Annual Meeting of the ASBMR, September 2000, Toronto, Canada.

Jilka RL, Parfitt AM, Manolagas SC, Bellido T, and **Smith C**. Cleavage of Collagen by Osteoblasts In Vitro Generates Anti-apoptotic Signals: A Mechanism for the Regulation of Their Functional Lifespan and Fate During Bone Formation. *J. Bone Miner. Res.* 14 (Sup. 1): SA 140,

1999. Poster presentation, 21st Annual Meeting of the ASBMR, September 1999, St. Louis, MO.

Jilka RL, Weinstein RS, Roberson P, Shelton R, Swain F, **Smith C**, Kirchner J, Parfitt AM, and Manolagas SC. PTH Increases Bone Formation by Postponing Osteoblast Apoptosis, not by Increasing Progenitor Proliferation. *Bone* 23 (Sup. 5): F461, 1998. Poster presentation, 20th Annual Meeting of the ASBMR, December 1998, San Francisco, CA.

Jilka RL, **Smith C**, and Manolagas SC. Dexamethasone Promotes Apoptosis of Osteoblast Progenitors in Murine Bone Marrow Cultures: Antagonism by IL-6 Type Cytokines. *J. Bone Miner. Res.* 12 (Sup. 1): S411, 1997. Poster presentation, 19th Annual Meeting of the ASBMR, September 1997, Cincinnati, OH.

Weinstein RS, Jilka RL, Young C, Miller FL, Shelton R, **Smith C**, Parfitt AM, and Manolagas SC. Glucocorticoid Excess Decreases the Number of Osteoblast Progenitors in the Marrow and Increases Mature Osteoblast Apoptosis in Mice. *J. Bone Miner. Res.* 12 (Sup. 1): P256, 1997. Plenary poster presentation, 19th Annual Meeting of the ASBMR, September 1997, Cincinnati, OH.

Weinstein RS, Carlin AA, Miller FL, Shelton R, **Smith C**, Roberson P, Parfitt AM, and Manolagas SC. The Effects of Androgen Deficiency on Bone Remodeling and Bone Mineral Density are Mediated via Cells of the Osteoblastic Lineage. *J. Bone Miner. Res.* 11 (Sup. 1): 137, 1996. Platform presentation, 18th Annual Meeting of the ASBMR, September 1996, Seattle, WA.

Jilka RL, Weinstein RS, Bellido T, Miller FL, **Smith C**, Parfitt AM, and Manolagas SC. Demonstration of Programmed Cell Death (Apoptosis) in Osteoblasts: Evidence for Modulation of this Process by Growth Factors and Cytokines. *J. Bone Miner. Res.* 11 (Sup. 1): P213, 1996. Plenary poster presentation, 18th Annual Meeting of the ASBMR, September 1996, Seattle, WA.

CURRENT INSTRUCTION – UAMS College of Pharmacy

Lecturer

PHPR 5645 Therapeutics III

“Diaper Dermatitis and GERD”, “Cystic Fibrosis”, “Fluid and Electrolytes” (5 hrs)

PHPR 4625 Therapeutics I

“Constipation” (1 hr)

PHPR 5362 Drug Induced Diseases (elective)

“Drug Induced Delirium” (1 hr)

Small Group Facilitator

PHPR 3423 Pharmacy Practice I

Preceptor

PHPR 6714 Direct Patient Care Advanced Practice Experience, Pediatrics

CONTINUING EDUCATION PRESENTATIONS AND INSERVICES

“Safe Use of OTC Cough and Cold Mediations in Children”

Gerald J. Glass Memorial Delta AHEC Pharmacy Continuing Education Program, Helena, AR (1 hour, ACPE 004-000-08-046-L01-P), November 2008

“I Can’t Go! Tackling Constipation”

Pharmacist CE, Little Rock, AR (1.5 hrs, Arkansas State Board of Pharmacy (ASBP)), October 2007. UAMS College of Pharmacy Reunion Weekend CE Program, Little Rock, AR (1.5 hrs, ACPE 004-000-07-061-L01-P), November 2007.

“Show Me the Evidence! Treating Hypertension in Patients with Compelling Indications”

Consultant Pharmacy CE Program, Little Rock, AR (1.5 hrs, ACPE 004-000-07-057-L01), October 2007

“Treatment of Hypertension and Compelling Indications: Where’s the Evidence?”

UAMS College of Medicine, Department of Family and Preventive Medicine, Little Rock, AR. Broadcast to 28 distant sites (1 hr, ASBP and American Academy of Family Physicians (AAFP)), March 2007

“Insomnia Medications in the Elderly”

Learn at Noon, UAMS College of Pharmacy, Little Rock, AR (1 hr, ACPE# 004-000-06-048-L01), October 2006. Arkansas Association of Health-System Pharmacists Fall Seminar, Big Cedar Lodge, MO (1 hr, ACPE # 004-999-06-033-L01), October 2006

“JNC 7 Guidelines: Treatment of Hypertension”

UAMS College of Medicine, Department of Family and Preventive Medicine, Little Rock, AR. Broadcast to 28 distant sites (1 hr, ASBP and AAFP), August 2006

“Medication Safety and Moderate Sedation”

Nursing in-service, UAMS Emergency Department, Little Rock, AR (0.5 hr), February 2006

“The Role of Vitamin Supplementation in the Treatment of Homocysteinemia”

Pharmacist CE, Little Rock, AR (1 hr, ASBP), October 2005

“Tygacil: A Third Generation Tetracycline”

Pharmacist CE, UAMS Hospital Pharmacy, Little Rock, AR (1 hr, ASBP), August 2005

PROFESSIONAL SERVICE

Referee, Pharmacotherapy, Fall 2008

Reviewer, Crystal APPLE (Academic Practice Partnerships for Learning Excellence) Award, American Association of Colleges of Pharmacy (AACP), 2008

Judge, Student Society of Health-System Pharmacists Clinical Skills Competition, UAMS College of Pharmacy, 2005-2008

CURRENT CERTIFICATIONS

2006	Postgraduate Teaching Course	UAMS College of Pharmacy
2005	Authorization to administer immunizations	Arkansas State Board of Pharmacy
2004	Basic Life Support	American Red Cross

PROFESSIONAL ORGANIZATIONS

Pediatric Pharmacy Advocacy Group	2008 – present
Arkansas Association of Health-System Pharmacists (AAHP)	2005 – present
American Association of Colleges of Pharmacy (AACP)	2005 – present
Arkansas Pharmacists Association (APA)	2005 – present
Rho Chi Honor Society, Beta Iota Chapter	2003 – present

HONORS AND AWARDS

2007	Wal-Mart Annual Conference Scholarship to attend the AACP Teachers Seminar AACP Annual Meeting (Orlando, FL)
2006	Wal-Mart Annual Conference Scholarship to attend the AACP Teachers Seminar AACP Annual Meeting (San Diego, CA)

COMMUNITY ACTIVITIES

2001 – Present	Volunteer pharmacist and member of advisory board, Westside Free Medical Clinic, Catholic Diocese of Little Rock
1997 – 2006	Local School Parent-Teacher Organization, Various Leadership Roles 2004-2006