

Fancy Catherine Thomas, Ph.D.

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CURRENT POSITION

Assistant Professor
Department of Pharmaceutical Sciences
One University Park Drive
Nashville, Tennessee 37204

EDUCATION

Ph.D. in Pharmaceutical Sciences	2004-2008
Texas Tech University, Health Sciences Center, Graduate School of Biomedical Sciences, Amarillo, TX	
Bachelor of Pharmaceutical Sciences	1998-2002
Goa College of Pharmacy, Goa University	

SCIENTIFIC EXPERIENCE

2006-2008	Research Assistant - Pharmaceutical Sciences, Texas Tech University Health Sciences Center, Amarillo, Texas Mentor: <i>Quentin R Smith, Ph.D.</i> (Neuropharmacology, Neurochemistry, and Neurokinetics)
2004-2006	Research Assistant- Pharmaceutical Sciences, Tech University Health Sciences Center, Amarillo, Texas Mentor; <i>David D Allen, R.Ph, Ph.D</i> (Neuropharmacology, Neurochemistry, and Neurokinetics)

PROFESSIONAL EXPERIENCE

2007 Spring	Supervisor- Drug Delivery Systems Laboratory. School of Pharmacy, Texas Tech University Health Sciences center Amarillo. Texas. 79106
2006 Spring	Facilitator- Case Studies . School of Pharmacy, Texas Tech University Health Sciences center Amarillo. Texas. 79106
2005 Spring	Teaching Assistant- Drug Delivery Systems Laboratory. School of Pharmacy, Texas Tech University Health Sciences center Amarillo. Texas. 79106
2003 January-2003 September	Trainee at <i>Abbott India Limited</i>, Verna Industrial Estate, Goa. India

1999 May-July

Summer Intern, Quality Control Department.*Ranbaxy Laboratories Limited*. Marcaim Industrial Estate, Goa. India

LEADERSHIP

2007	Chair, AAPS Student Chapter, Amarillo
2006	Co-Chair, AAPS Student Chapter, Amarillo
2006	Vice President , Graduate Students Association of Amarillo
2005	Co-founder of Amarillo AAPS Student Chapter
2005	Vice Chair, AAPS student chapter, Amarillo
2004	International officer and co-founder of Graduate Students Association

PROFESSIONAL AFFILIATIONS

American Association of Pharmaceutical Sciences (AAPS)

HONORS AND AWARDS

- Travel Award from Pharmacokinetics, Pharmacodynamics and Drug Metabolism (PPDM) section of AAPS, October 2008
- Mary Lou Clements Scholarship for Cancer Research , July 2008
- Graduate Student Association of Amarillo Travel Award, May 2007 and May 2008
- American Association of Indian Pharmaceutical Sciences Graduate Student Research Award, November 2005
- Double T Star Spangled Scholarship, May 2005

RESEARCH INTERESTS

Evaluate brain uptake of chemotherapeutic drugs by using *in situ* brain perfusion technique. Role of efflux transporters such as p-glycoprotein, breast cancer resistance protein, multidrug-associated protein in restriction of anticancer drugs using *in situ* brain perfusion technique and *in vitro* transport assays with MDCK cells.

POSTER PRESENTATIONS

Thomas FC, Thorsheim H, Goda S, Gaasch J, Gabathuler R, Demeule M, Che C, Castaigne JP, Lockman PR, Smith QR . Brain uptake of ANG1005- a novel paclitaxel-peptide vector conjugate

with improved blood-brain barrier permeability. *AAPS Annual Meeting, November 2008, Atlanta, Georgia*

Thomas FC, Rudraraju V, Taskar K, Lockman PR, Palmieri D, Steeg P and Smith QR . Brain uptake of gemcitabine across the blood-brain barrier. *AAPS Annual Meeting, November 2008, Atlanta, Georgia*

K. S. Taskar, V. Rudraraju, H. Thorsheim, **F.C. Thomas**, J. Gaasch, R. Mittapalli, K Bohn, P. Lockman, P. Steeg, D. Palmieri, J. W. Polli, S. X. Castellino, S. D. Rubin, Q. R. Smith. Distribution of Dual Tyrosine Kinase Inhibitor Lapatinib in Brain Metastases of Breast Cancer. *AAPS Annual Meeting, November 2008, Atlanta, Georgia*

V. Rudraraju, K. S. Taskar, J. A. Gaasch, **F.C Thomas**, R. Mittapalli, P. R. Lockman, D. Palmieri, P. Steeg, Q. R. Smith. Uptake of Suberoylanilide Hydroxamic Acid, a Histone Deacetylase Inhibitor, into Brain Metastases of Breast Cancer. *AAPS Annual Meeting, November 2008, Atlanta, Georgia*

Demeule M, Regina A, Che C, Lockman P, **Thomas F**, Gaasch J, Thorsheim H, Abulrob A, Smith QR, Stanimirovic D, Béliveau R, Gabathuler R, and Castaigne J. ANG1005, a new therapeutic drug able to cross the Blood-Brain Barrier for the treatment of brain cancers. *AACR Annual Meeting, April 2008, San Diego, California.*

Gabathuler R, Demeule M, Régina A, Ché C, Lockman P, **Thomas F**, Gaasch J, Thorsheim H, Abulrob A, Smith QR, Stanimirovic D, Béliveau R and Castaigne J. ANG1005 (Paclitaxel-AngioPep Conjugate) for the Treatment of Brain Primary or Metastatic Tumors. *Blood-Brain Barrier Disruption consortium, Skamania, WA, USA, March 2008*

Thomas FC, Rudraraju V, Lockman PR, Smith QR. Blood-brain barrier permeability and transport of Temozolomide. *AAPS Annual Meeting, November 2007, San Diego, California*

Taskar KS, Mittapalli RK, Rudraraju V, Egbert JA , Bohn KA , Gaasch JA, **Thomas FC**, Lockman PR & Smith QR. Improved left ventricle intracardiac injection method for brain metastases of breast cancer in immune compromised mice. *Society for Neuroscience Annual Meeting. November 2007. San Diego, California*

Goda S, **Thomas FC** and Smith QR. Blood-brain barrier permeability and transport of Bumetanide. *Society for Neuroscience Annual Meeting. November 2007. San Diego, California.*

Thomas FC, Mandula H, Parepally J and Smith QR. Influence of flow on blood-brain barrier transport using the in situ perfusion model. *Society for Neuroscience Annual Meeting. November 2006. Atlanta, Georgia*

Caviness P, Thomas F, Lockman PR and Rosengart AJ. Targeted Drug Delivery using Magnetic Nanoparticles: Blood Brain Barrier Property Analysis. *BMES Annual Meeting. October 2006*

Thomas F, Geldenhuys WJ, Lockman PR, Van der Schyf CJ, Crooks PA, Dwoskin LP, and Allen DD. 3D-QSAR Studies on the Affinity of Rigid Bis-Quaternary Nicotinium Compounds for the Blood Brain Barrier Choline Transporter. *AAPS Annual Meeting, November 2005, Nashville Tennessee.*

Gupte A, **Thomas F**, Allen DD, Mumper RJ. D-penicillamine nanoparticle formulations for the potential chelation therapy in Wilson's disease. *AAPS Annual Meeting, November 2005, Nashville Tennessee.*

Publications

Lockman PR, Manda VK, Geldenhuys WJ, Mittapalli RK, **Thomas F**, Albayati ZF, Crooks PA, Dwoskin LP, Allen DD. Carrier-mediated transport of the quaternary ammonium neuronal nicotinic receptor antagonist, N, N'-dodecyl-bis-picolinium dibromide (bPiDDB) at the blood-brain barrier. *J Pharmacol Exp Ther.* 2007 Oct 5

Schugar H, Green DE, Bowen ML, Scott LE, Storr T, Bohmerle K, **Thomas F**, Allen DD, Lockman PR, Merkel M, Thompson KH, Orvig C. Combating Alzheimer's disease with multifunctional molecules designed for metal passivation. *Angew Chem Int Ed Engl.* 2007;46(10):1716-8

Egbert J, Geldenhuys W, **Thomas F**, Lockman PR, Mumper RJ, Allen DD. Nanoparticle targeting for drug delivery across the blood-brain barrier. Edited by Wasan KM. *Wiley Interscience.* 2007: 160-169