

CURRICULUM VITAE

Anthony Jerome Baucum II

University of Utah

Department of Pharmacology and Toxicology

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EDUCATION

- 2001 – 2004 Currently investigating the effects of drugs of abuse on the dopamine transporter, University of Utah
- 2004 Ph.D., department of Pharmacology and Toxicology, University of Utah
- 2000 – 2001 Performed a research rotation involved with identifying the yeast mitochondrial proteome, University of Utah
- 1999 – 2000 Performed a research rotation involving the use of ethnobotanically-derived natural products as possible anti-neoplastic agents, University of Utah
- 1995 – 1999 B.S., Magna Cum Laude; Major: biology, minor: Spanish, Honors Program, GPA: 3.79. Loyola Marymount University, Los Angeles, CA

PROFESSIONAL / TEACHING EXPERIENCE

- 2004 Guest Lecturer. Will present a directed discussion on drugs addiction to the students in the Neuropharmacology class (PHTX 7270), University of Utah
- 2004 Teacher's Assistant. Presented a lecture on fats and cholesterol to Common Medicines (PHTX 2700), University of Utah
- 2003 Teacher's Assistant. Presented lectures on fats and cholesterol, antiviral drugs, and cold medicines to Common Medicines (PHTX 2700), University of Utah
- 2003 Guest Lecturer. Presented lecture on antiviral drugs to professional pharmacy and pharmacology students (PHTX 5221/6221), University of Utah
- 2003 Guest Lecturer. Presented lecture on the mechanism of action of drugs of abuse to high school students in a health and science class. Kearns High School, Kearns, UT
- 2002 Teacher's Assistant. Presented a lecture on fats and cholesterol to Common Medicines (PHTX 2700), University of Utah

- 2002 Guest Lecturer. Presented lecture on antiviral drugs to professional pharmacy and pharmacology students, University of Utah
- 2001 Guest Lecturer. Discussed pharmacological aspects of drugs of abuse to dependency councilors, Serenity Lane Treatment Facility, Eugene, OR.
- 2000 Guest Lecturer. Presented data on research involving the screening of ethnobotanically-derived natural products as possible anti-neoplastic agents, Loyola Marymount University.
- 1998 Summer Apprenticeship program. Investigating the effects of PCBs on the Eastern Oyster, College of William and Mary, School of Marine Science, Virginia Institute of Marine Science, Gloucester Point, VA.
- 1998 – 1999 Head Teacher's Assistant. Freshman general biology laboratory, Loyola Marymount University
- 1997 – 1998 Teacher's Assistant. Freshman general biology laboratory, Loyola Marymount University
- 1997 Teacher's Aid. Assisted a high school biology teacher prepare an AP biology curriculum for the subsequent year. Marist High School, Eugene, OR.

PUBLICATIONS

- 2004 Baucum, A.J., A.E Fleckenstein. "MDMA" X-Pharm Elsevier (in press)
- 2004 A.J. Baucum, K.S. Rau, E.L. Riddle, G.R. Hanson, A.E. Fleckenstein. "Methamphetamine Increases Dopamine Transporter Complex Formation via a Dopamine- and Hyperthermia-Associated Mechanism" *J. Neurosci.* 24(13). 2004. Pp. 3436-3443.
- 2000 L.A. Cruz-Rodríguez, A.J. Baucum II, P. Soudant, F.-L.E. Chu, R.C. Hale. "Effects of PCBs sorbed to algal paste and sediments on the stress protein response (HSP70 family) in the eastern oyster, *Crassostrea virginica*." *Mar. Env. Res.* 50 (1-5). 2000. Pp. 341-345.

ABSTRACTS

- 2004 Kristi S. Rau, Anthony J. Baucum II, Evan L.Riddle, Veronica Sandoval, Glen R. Hanson, Annette E. Fleckenstein. Psychostimulants Differentially Alter Plasmalemmal Dopamine Transporter and Vesicular Monoamine Transporter-2 Function. *Frontiers in Addiction Biology: Genomics and Beyond*, Nashville, TN. May 2004.
- 2004 A.J. Baucum II, K.S. Rau , G.R. Hanson, A.E. Fleckenstein. Methamphetamine Increases Dopamine Transporter Oligomerization: A Role for Dopamine. Abstract No. 1550. *Experimental Biology*.
- 2003 A.J. Baucum II, K.S. Rau , J.E. Hanson, G.R. Hanson, A.E. Fleckenstein. Neurotoxic Regimens of Methamphetamine Increase Dopamine Transporter Oligomer Formation. Program No. 253.13 Society for Neuroscience. 2003.
- 2003 A.E. Fleckenstein, A.J. Baucum, E.L. Riddle, G.R.Hanson. Differential Effects of Psychostimulants on Plasmalemmal Dopamine and Vesicular Monoamine Transporter-2 Function. Poster Board 49. College on Problems of Drug Dependence. 2003.
- 2003 A.J. Baucum II, K.S. Rau, E.L. Riddle, G.R. Hanson, A.E. Fleckenstein. Methamphetamine Increases the Formation of Dopamine Transporter Oligomeric Complexes. *Experimental Biology*, 2003.
- 2002 A.J. Baucum II, E.L. Riddle, G.R. Hanson, A.E. Fleckenstein. Impact of reducing agents on the dopamine transporter. Program No. 745.9. Society for Neuroscience. 2002.
- 1999 Brian Smithers, James Peykanu, A.J. Baucum II (Roy S. Houston). Biodiversity of a shallow water marine community. Program # P2. West Coast Biological Sciences Undergraduate Research Conference, 1999.

PROFESSIONAL FELLOWSHIPS AND AWARDS

- 2004 Wolf Prize in Teaching. An award that recognizes excellence in teaching.
- 2004 1st place American Society for Pharmacology and Experimental Therapeutics best paper competition, Neuropharmacology Division
- 2004 Awarded a travel award to the Experimental Biology meeting in Washington D.C.
- 2003 2nd place American Society for Pharmacology and Experimental Therapeutics best paper competition, Neuropharmacology Division.

1999	Awarded a Presidential Citation. Loyola Marymount University.
1999	Awarded the Kadner Biology award and the Jerome Korth Award for highest core GPA in biology. Loyola Marymount University
1998	Interviewed by the State of Oregon Rhodes Selection Committee for the Rhodes Scholarship.
1998	Ernest E. Just Award for Scholarly Achievement in Biology. Loyola Marymount University
1997	Dean's List, Academic All-American, named to the All Western Water Polo Association Academic team. Loyola Marymount University
1997	Dean's List, African American Studies Department, Dr. Ulysses Grant Dailey Award for High Achievement in Biology. Loyola Marymount University
1996	Dean's list, Academic All-American, named to the All Western Water Polo Association Academic team. Loyola Marymount University
1996	LMU African American Studies Department Ernest E. Just Award for Pursuit of Excellence in Biology. Loyola Marymount University
1996	Dean's List. Loyola Marymount University
1995 – 1999	Trustee scholarship. Loyola Marymount University

PROFESSIONAL SOCIETIES

2002	Student member Society for Neuroscience
2002	Student member American Society for Pharmacology and Experimental Therapeutics
1999	Inducted into the Beta Beta Beta biology society and Sigma Xi the International Scientific Society
1998	Inducted into Alpha Sigma Nu – National Jesuit Honor's Society

COMMITTEES

2003 – 2004	Secretary Rules Committee USA water polo
2001 – present	Athlete Representative USA water polo
2001 – 2002	Student representative to the graduate training committee, Department of Pharmacology and Toxicology, University of Utah

EXTRACURRICULAR AWARDS

2004	Named Elite Level zone coach of the year for the Mountain Zone
2003	Named 1st team all-conference for the Southwest Zone Collegiate Water Polo Association
2002	Named 1st team all-conference for the Southwest Zone Collegiate Water Polo Association

HOBBIES

I am an avid fan of the sport of water polo and currently I play and am the player/coach of the University of Utah club water polo team. I also am an assistant water polo coach for Kearns High School and am currently in my fifth season. I have been named to the Southwest Zone of the collegiate water polo association 1st team all conference for the last 2 seasons. Additionally, I am in my second season as the boys zone development coach. This involves coaching the best 13 and under boys in the region (Utah, Arizona, New Mexico, Colorado, and Nevada). I was also named Mountain Zone Elite Coach of the Year for my involvement with the University of Utah Men's team and a local Masters level club team.

In addition to water polo, I have interests in computer science and the use of computers in biology. I have taken courses that reflect those interests including a course in bioinformatics and two programming classes as well as a computers in biology course senior seminar at Loyola Marymount University