

CURRICULUM VITAE

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EDUCATION AND TRAINING

Undergraduate

1997-2001	The Pennsylvania State University State College, PA	B.S., 2001	Animal Bioscience
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Graduate

2002-2008	Duquesne University Pittsburgh, PA	Ph.D., 2008	Pharmacology and Toxicology
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Post-Graduate

2008-2012	University of Pittsburgh Pittsburgh, PA	Postdoctoral Fellow	Environmental and Occupational Health Dr. Koldamova Alzheimer's disease research
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APPOINTMENTS AND POSITIONS

Academic

2001	Undergraduate Research Assistant	Entomology, College of Agricultural Sciences, The Pennsylvania State University, State College PA
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2002-2008	Graduate Research Assistant and Teaching Assistant	Pharmacology and Toxicology, Mylan School of Pharmacy, Duquesne University, Pittsburgh PA
2008-2012	Postdoctoral Fellow	EOH, Graduate School of Public Health, University of Pittsburgh, Pittsburgh PA
2013-present	Research Assistant Professor	EOH, Graduate School of Public Health, University of Pittsburgh, Pittsburgh PA

MEMBERSHIP IN PROFESSIONAL AND SCIENTIFIC SOCIETIES

2003-present	Society for Neuroscience
2008-2012	University of Pittsburgh Postdoctoral Association

HONORS

1997-1999	Penn State Honors Program The Pennsylvania State University
1997	Alpha Lambda Delta – Freshman Honors Program The Pennsylvania State University
1997-2001	Academic Tuition Scholarship The Pennsylvania State University
2002-2008	Teaching Assistant Stipend Duquesne University
2002-2008	Academic Tuition Scholarship Duquesne University
2007	Graduate Student Award for Excellence in Teaching Duquesne University
2008	Best Presentation (Post Doc) Third Annual Research on Aging University of Pittsburgh Institute on Aging

2009	Young Investigator Scholarship Alzheimer's Drug Discovery Foundation
2009	Date and Dine Travel Award University of Pittsburgh Postdoctoral Association
2014	Charleston Conference on Alzheimer's Disease New Vision Researcher

PROFESSIONAL ACTIVITIES

1. Teaching

a. Courses Taught

Years Taught	Course Number: Title	Hours of Lecture, credits Average Enrollment	Role in course Primary/Coordinator
2002-2005	Human Anatomy and Physiology Laboratory	1 hr, 0.5 credit, 32 students	Senior Teaching Assistant
2002-2005	Microbiology Laboratory	1 hr, 0.5 credit, 32 students	Senior Teaching Assistant
2006-2008	Human Anatomy and Physiology Laboratory	1 hr, 0.5 credit, 32 students	Head Teaching Assistant
2006-2008	Microbiology Laboratory	1 hr, 0.5 credit, 32 students	Head Teaching Assistant

b. Other Teaching (lectures, tutorials and continuing education courses)

Date(s)	Type of Teaching	Title
February 11, 2010	Postdoctoral Professionalism Series Workshop	Getting to the Payline: Writing Successful NRSA Fellowship Applications
October 14, 2010	Postdoctoral Professionalism Series Workshop	Maximize Your Poster Presentation

2. Research and Training

a. Grants and Contracts Received

Principal Investigator

Years Inclusive	Grant and/or Contract Number and Title	Source	Annual Direct Costs	% Effort
2009-2010	Cholesterol Metabolism and Alzheimer's Pathology	Alzheimer's Art Quilt Initiative	10,000	100
2009-2010	The Potential Role of LXR Ligands to Attenuate A β Pathology	Alzheimer's Disease Research Center	30,000	100
2009-2012	Role of LXR and ABCA1 in A β Aggregation and Toxicity	NIA F32	55,000	100
2011-2012	Effects of Different Forms of ApoE on Treatment of Alzheimer's Disease	Alzheimer's Art Quilt Initiative	30,000	100
2013-2015	Effects of RXR agonist on AD phenotype in APP mice expressing ApoE3 and E4	Alzheimer's Association	60,000	65
2014-2019	Peripheral & Brain Cholesterol Metabolism in Neurodegenerative Mouse Models	NIH K01	92,587	75

b. Invited Lectureships and Major Seminars Related to Your Research

Date	Title of Presentation	Venue
June 17, 2009	Role of Abca1 in A β Pathology	University of Pittsburgh Postdoc Lunch Live Series
May 18, 2010	Cholesterol Metabolism and Alzheimer's Disease	Duquesne University Research Days
October 11, 2013	Potential of RXR agonists to diminish amyloid pathology and reverse memory deficits	Bridgeside Research Forum
March 14, 2014	Abca1 and ApoE Axis	Charleston Conference on AD

in Alzheimer's disease

c. Other Research and Training Activities

University of Pittsburgh

Becoming a More Effective Research Mentor (October 2012)
IACUC Training Seminars: Small Animal Surgery (April 2012)
What Employees Look For: Comparing Academia and Industry (November 2011)
Mentoring Matters (September 2011)
Know Your K Awards (December 2010)
Getting to the Payline: Writing Successful NRSA Fellowship Applications (February 2009)
Build your Research Portfolio by Utilizing New Resources (November 2008)
Career Transitions: Exploring Your Passions and Recognizing Your Potential (November 2008)
Responsible Conduct of Research for Emerging Investigators: Conflict of Interest and Relations with Industry (October 2008)
Maximizing Your Postdoctoral Success (September 2008)
Writing Successful NRSA Fellowship Applications (May 2008)
Developing the Networking Skills to Further Your Career (January 2008)
Research Ethics (December 2007)

Duquesne University

Publish or Perish (November 2006)
Academic Job: Getting Ready for an Interview (November 2006)
Preparing the CV and Cover Letter (September 2006)
Developing Research and Communication Skills (March 2005)
Documenting the Impact of Your Scholarship (March 2005)

PUBLICATIONS

1. Refereed Articles

1. N.F. Fitz, A.A. Cronican, I. Lefterov, R. Koldamova. Comment on "ApoE-directed therapeutics rapidly clear β -amyloid and reverse deficits in AD mouse models". *Science*. 2013 May 24;340 (6135):924-c. doi: 10.1126/science.1235809.
2. A. A. Cronican, N. F. Fitz, A. Carter, M. Saleem, S. Shiva, A. Barchowsky, R. Koldamova, J. Schug, I. Lefterov. Genome-Wide Alteration of Histone H3K9

Acetylation Pattern in Mouse Offspring Prenatally Exposed to Arsenic. PLOS ONE. 2013 10.1371/journal.pone.0053478

3. P. A. Babalola, N.F. Fitz, R.B Gibbs, P. Flaherty, P.-K. Li, D.A. Johnson. The Effect of The Steroid Sulfatase Inhibitor (p-O-sulfamoyl)-Tetradecanoyl Tyramine (DU-14) on Learning and Memory in Rats with Selective Lesion of Septal-Hippocampal Cholinergic Tract. *Neurobiology of Learning and Memory*. 2012, pii: S1074-7427(12)00114-1
4. N.F. Fitz; A.A. Cronican; M. Saleem; A.H. Fauq; R. Chapman; I. Lefterov R. Koldamova. Abca1 deficiency differentially affects AD-like phenotype in human ApoE4 but not in ApoE3 targeted replacement mice. *Journal of Neuroscience*. 2012, 32(38); 13125-13136
5. I. Lefterov; N.F. Fitz; A.A.Cronican; A. Fogg; P. Lefterov; R. Kodali; R. Wetzel; R. Koldamova. Apolipoprotein A-I deficiency increases cerebral amyloid angiopathy and cognitive deficits in APP/PS1DeltaE9 mice. *Journal of Biological Chemistry*. 2010, 285(47); 36945-36957
6. N.F. Fitz; A. Cronican; T. Pham; A. Fogg; A.H. Fauq; R. Chapman; I. Lefterov; R. Koldamova. Liver X receptor agonist treatment ameliorates amyloid pathology and memory deficits caused by high-fat diet in APP23 mice. *Journal of Neuroscience*. 2010, 30(20); 6862-6872
7. A.A. Cronican; N.F. Fitz; T. Pham, A. Fogg, B. Kifer, R. Koldamova, I. Lefterov. Proton pump inhibitor lansoprazole is a nuclear liver X receptor agonist. *Biochemical Pharmacology*. 2010, 79(9); 1310-1316
8. I. Lefterov; N.F. Fitz; A. Cronican; P. Lefterov; M. Staufenbiel; R. Koldamova. Memory deficits in APP23/Abca1+/- mice correlate to the level of A β oligomers. 2009, *ASN NEURO*. 1(2), pii: e00006.
9. M.J. Jarzynka; D.K. Passey; D.A. Johnson; N. Konduru; N.F. Fitz; N.M. Radio; M. Rasenick; S. Benloucik; M.A. Melan; P.A. Witt-Enderby. Microtubules modulate melatonin receptors involved in phase-shifting circadian activity rhythms: in vitro and in vivo evidence. *Journal of Pineal Research*. 2009, 46, 161-171
10. N.F. Fitz; R.B. Gibbs; D.A. Johnson. Selective lesion of septal cholinergic neurons in rats impairs acquisition of a delayed matching to position T-maze task by delaying the shift from a response to a place strategy. *Brain Research Bulletin*. 2008, 77, 356-360
11. N.F. Fitz; R.B. Gibbs; D.A. Johnson. Aversive stimulus attenuates impairment of acquisition in a delayed match to position T-maze task caused by a selective lesion of septo-hippocampal cholinergic projections. *Brain Research Bulletin*. 2006, 69, 660-665

2. Review Articles

1. R. Koldamova; N.F. Fitz; I. Lefterov. ATP-binding cassette transporter A1: From metabolism to neurodegeneration. *Neurobiology of Disease*. 2014 May 17. pii: S0969-9961(14)00125-9. doi: 10.1016/j.nbd.2014.05.007
2. R. Koldamova; N.F. Fitz; I. Lefterov. The role of ATP-binding cassette transporter A1 in Alzheimer's disease and neurodegeneration. *Biochimica et Biophysica Acta (BBA) - Molecular and Cell Biology of Lipids*. 2010, 1801(8); 824-830

3. Presentations

1. N.F. Fitz, A. Cronican, E. Castranio, F. Davenport, I. Lefterov; R. Koldamova. The effects of immunotherapy and LXR ligand co-treatment on amyloid neuropathology and cognition in APP23 mouse model. 2013 Society for Neuroscience Meeting, San Diego, CA.
2. A.Y. Carter, A. Cronican, N.F. Fitz, E. Castranio, F. Davenport, R. Koldamova, I. Lefterov. Effect of apolipoprotein E on learning deficits in animal models infused with soluble β -amyloid oligomers. 2013 Society for Neuroscience Meeting, San Diego, CA.
3. A. Cronican, N.F. Fitz, F. Davenport, E. Castranio, J. Schug, R. Koldamova, I. Lefterov. Identification of regulatory networks controlled by Egr1 genome-wide in brain of Alzheimer's disease mouse model. 2013 Society for Neuroscience Meeting, San Diego, CA.
4. N.F. Fitz; A. Cronican; I. Lefterov; R. Koldamova. Abca1 deficiency affects differentially amyloid phenotype of ApoE3 and ApoE4 targeted replacement mice. 2012 Alzheimer's Association International Conference, Vancouver B.C.
5. N.F. Fitz; A. Cronican; I. Lefterov; R. Koldamova. Effect of Abca1 on amyloid deposition in APP mice expressing different ApoE isoforms. 2011 Society for Neuroscience Meeting, Washington D.C.
6. Cronican; N.F. Fitz; R. Klei, A. Barchowsky, R. Koldamova, I. Lefterov. Effects of arsenic exposure on ABCA1 gene expression, APP processing, and cognition in mice. 2011 Society for Neuroscience Meeting, Washington D.C.
7. N.F. Fitz; A. Cronican; A. Fogg; I. Lefterov; R. Koldamova. LXR ligand treatment in APP mice. Poster Presentation: 2009 Nuclear Receptor Conference, Pittsburgh PA
8. N.F. Fitz; A. Cronican; A. Fogg; S. Egglestone; T. Tulloch; I. Lefterov; R. Koldamova. LXR ligand treatment in APP mice on normal and high fat diet. Poster Presentation: 2009 Society for Neuroscience Meeting, Chicago IL

9. A. Cronican; N.F. Fitz; A. Fogg; T. Tulloch; S. Egglestone; P. Rajendran; I. Lefterov; R. Koldamova. Effect of ABCA1 and brain lipoproteins on in vivo A β clearance through blood brain barrier in APP/PS1 mice. Poster Presentation: 2009 Society for Neuroscience Meeting, Chicago IL
10. A.Fogg; N.F. Fitz; A. Cronican; S. Egglestone; T. Tulloch; P. Rajendran; I. Lefterov; R. Koldamova. Lack of apolipoprotein A-I increases amyloid deposition and aggravates memory deficits in APP/PS mice. Poster Presentation: 2009 Society for Neuroscience Meeting, Chicago IL
11. R. Koldamova; N.F. Fitz; A. Cronican; A. Fogg; S. Egglestone; I. Lefterov. Critical role of Abca1 in maintaining functional ApoE and ApoA-I and their impact on A β aggregation and clearance from brain. Poster Presentation: 2009 ICAD Vienna, Austria.
12. N.F. Fitz; I. Lefterov; R. Koldamova. Influence of Abca1 on Alzheimer's pathology and cognition. Poster Presentation: University of Pittsburgh Postdoctoral Association: Data and Dine, Pittsburgh PA
13. N.F. Fitz; I. Lefterov; R. Koldamova. Influence of Abca1 on Alzheimer's pathology and cognition. Presentation: Celebrating Research on Aging, Pittsburgh PA
14. R. Koldamova; N.F. Fitz; A. Cronican; P. Lefterov; I. Lefterov. Regulatory role of Abca1 and brain lipoproteins in A β oligomerization and deposition - comparative pathology in ABCA1ko and ApoA-Iko/ApoEko mice. Poster Presentation: 2008 Society for Neuroscience Meeting, Washington D.C.
15. N.F. Fitz; I. Lefterov; P. Lefterov; M. Staufenbiel; R. Koldamova. Amyloid beta oligomerization and fibrillization associated with working memory impairments in APP23/ABCA1+/- mice - implications for the role of ABCA1 in Alzheimer's disease. Poster Presentation: 2008 Society for Neuroscience Meeting, Washington D.C.
16. N.F. Fitz; I. Lefterov; P. Lefterov; R. Koldamova. Implications for the role of ABCA1 in Alzheimer's disease. Poster Presentation: SCIENCE 2008, Pittsburgh PA
17. N.F. Fitz; R.B. Gibbs; D.A. Johnson. Effects of selective lesioning of the septo-hippocampal cholinergic projections on learning strategies. Poster Presentation: 2006 Society for Neuroscience Meeting, Atlanta, GA
18. R.B. Gibbs; N.F. Fitz; D.A. Johnson. Task selective effects of ovariectomy on learning: impaired acquisition of a 12 arm radial maze task. Poster Presentation: 2006 Society for Neuroscience Meeting, Atlanta, GA

19. R.B. Gibbs; N.F. Fitz; D.A. Johnson. Cholinergic lesions produce selective effects on cognitive performance in rats. Poster Presentation: 2005 Society for Neuroscience Meeting, Washington D.C.
20. N. Konduru; D.A. Johnson; N.F. Fitz; S. Benloueif; P.A. Witt-Enderby. MT2 melatonin receptors and MEK/ERK (1/2) modulate melatonin mediated phase shift of circadian activity rhythms in Long Evans rats. Poster Presentation: 2004 Society for Neuroscience Meeting, San Diego, CA
21. S. Arshad; P. Li; N.F. Fitz; D.A. Johnson. Effects of dehydroepiandrosterone sulfate on retention in passive avoidance in septal hippocampal cholinergic lesioned rats. Poster Presentation: 2004 Society for Neuroscience Meeting, San Diego, CA
22. N.F. Fitz; P. Li; D.A. Johnson. Effects of dehydroepiandrosterone sulfate on delayed match to position T-maze task performance in 192-IgG-saporin lesioned rats. Poster Presentation: 2004 Society for Neuroscience Meeting, San Diego, CA
23. V.N. Pokala; N.F. Fitz; P.A. Witt-Enderby; D.A. Johnson. Septohippocampal cholinergic lesion and hippocampal alpha-secretase activity in rat. Poster Presentation: 2004 Society for Neuroscience Meeting, San Diego, CA
24. N.F. Fitz; R.B. Gibbs; D.A. Johnson. Arousal enhances delayed match to position T-maze performance independent of septo-hippocampal cholinergic projections. Poster Presentation: 2003 Society for Neuroscience Meeting, New Orleans, LA
25. M.A. Liberatore; N.J. Zambone; N.F. Fitz; V.N. Pokala; R.A. Nagle; P. Li; D.A. Johnson. Steroid sulfatase inhibition potentiates working memory deficit induced by 192 IgG-Saporin. Poster Presentation: 2002 Society for Neuroscience Meeting, Orlando, FL

SERVICE

1. Service to School and University

Years	Committee	Position
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Years	Committee	Position
2014-present	Muzamil Saleem's dissertation Committee member: School of Biological Sciences	Duquesne University
2014	University of Pittsburgh Postdoctoral Association Data and Dine	Poster Judge
2014	GPSH poster judge	
2013-2014	Mylan School of Pharmacy Accreditation Committee	Duquesne University
2010	University of Pittsburgh Postdoctoral Association Data and Dine	Poster Judge
March 2008	Award Committee for Graduate Student Award for Excellence in Teaching	Duquesne University

2. Service to Field of Scholarship

A. Manuscript and Other Document/Publication Review

Dates	Journal Title
2014	CCAD grant proposal review
2013-present	Biochimica et Biophysica Acta
2013-present	Alzheimer's & Dementia
2013-present	Neurobiology of Disease
2011-present	Frontiers in Neurodegeneration
2012-present	Alzheimer's Association

B. Leadership in Scholarly and Professional Organizations and Honorary Societies

Date	Position	Organization
March 2011	Science fair judge	Pittsburgh Regional Science and Engineering Fair

