

CURRICULUM VITAE

Biographical Information

NAME:

Radosveta Koldamova, MD, PhD

CITIZENSHIP:

United States of America

BUSINESS ADDRESS:

Department of Environmental and occupational Health
GSPH, University of Pittsburgh,
130 De Soto Street, PUBHL, Room 4135, Lab4060.5-4060.10.
Pittsburgh, PA 15261

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EDUCATION AND TRAINING

Undergraduate

Years of Attendance	NA	NA	NA
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Graduate

1973 – 1979	Medical Academy, Sofia, BULGARIA	MD, 1979	General Medicine
1989 - 1994	Medical Academy & Bulgarian Academy of Sciences, Sofia, BULGARIA	PhD, 1994	Molecular Biology and Biochemistry

Post-Graduate

1995-1998	Department of Pharmacology, University of Pittsburgh, Pittsburgh, PA, USA	Postdoctoral fellow	Pharmacology
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APPOINTMENTS AND POSITIONS

Academic

2011-present	Associate professor	Department of Environmental and Occupational Health, University of Pittsburgh.
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October 1, 2005 – 2011	Res. Assistant Professor	Department of Environmental and Occupational Health, University of Pittsburgh
Feb 1, 2005 – Sept 31, 2005	Res. Assistant Professor	Department of Pharmacology, University of Pittsburgh
1998 – January 31, 2005	Instructor	Department of Pharmacology, University of Pittsburgh, Pittsburgh, PA
1991-Oct 30, 1995	Assistant professor	Department of Biochemistry, School of Medicine, Stara Zagora, BULGARIA
1986-1990	Instructor	Department of Biochemistry, School of Medicine, Stara Zagora, BULGARIA
1983 - 1985	Lecturer	Department of Biochemistry, School of Medicine, Stara Zagora, BULGARIA
Non-Academic		
1980 – July 30, 1982	General Practitioner	Regional Hospital Strazhitca, BULGARIA

CERTIFICATION AND LICENSURE

Specialty Certification

1986	Board certified in Medical Biochemistry	Medical Academy, Sofia, BULGARIA.
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Medical or Other Professional Licensure

AND	NA	NA
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MEMBERSHIP IN PROFESSIONAL AND SCIENTIFIC SOCIETIES

2008 – Present time	International Society to Advance Alzheimer Research and Treatment
2004 – Present time	Society for Neuroscience
2003 – Present time	American Society for Biochemistry and Molecular Biology
1996-1998	American Association for Cancer Research

HONORS

1997	AACR - Pharmacia & Upjohn Young investigator Award
1998	AACR - Pharmingen Young investigator Award

PROFESSIONAL ACTIVITIES:

Teaching

Courses Taught:

Graduate School of Public Health, University of Pittsburgh

2013 present time	Graduate School of Public Health, University of Pittsburgh	Hours of Lecture – 3 classes (2 hours each); 25-30 students	Human genetics 2034 Biochemical and Molecular genetics of complex disease (Epigenetic mechanisms in human pathology)
2015	Graduate School of Public Health, University of Pittsburgh	Hours of Lecture – 2 classes (2 hours each); 20 students	#3210: Pathophysiology of Environmental Disease (Physiology and Pathophysiology of the Nervous System)
2015 present time	Graduate School of Public Health, University of Pittsburgh	Hours of Lecture – (2 hours each); 10 PhD students	Journal club at EOH

School of Medicine, Stara Zagora, Bulgaria

1983-1995; School of Medicine, St. Zagora, BG	Title: Biochemistry, Metabolism, Molecular Biology Second year medical students	Hours of Lecture – 9 hours weekly; 2 semesters; 75 students	Role in course: Primary instructor
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Other Teaching (lectures, tutorials and continuing education courses)

Date(s)	Type of Teaching	Title
April 2015	Guest mentor for Medical Scientist Training Program; University of Pittsburgh, School of Medicine	"Research Basis of Medical Knowledge."
March-April, 2014	Guest mentor for Medical Scientist Training Program. University of Pittsburgh, School of Medicine	"Research Basis of Medical Knowledge."
October 12, 2011	Guest mentor for Medical Scientist Training Program. University of Pittsburgh, School of Medicine	"Research Basis of Medical Knowledge."

Graduate Student Essays, Theses, and Dissertations

Name of Student	Degree Awarded, Year	Type of Document and Title	Notes
1. Alexis Y. Carter	2017		Graduated April 2017
2. Emilie Castranio	2018		Graduated July 2018
3. Cody Wolfe			4 rd PhD student

Service on Masters or Doctoral Committees

Dates Served	Name of Student	Degree Awarded	Title of Dissertation/Essay
April 2014	Cody M. Wolfe	MS-2014	Traumatic brain injury: a comprehensive review
January 2011-April 2012	Xiaozhuo Lu	MS-2012	Role of ABCA1 in amyloid pathology in APP mice expressing different APOE isoforms
2012-2013	Mark Wong Chen	MS-2013	Environmental exposure to arsenic and its relation to genome-wide modification mouse offspring

Service on Comprehensive or Qualifying Examination Committees:

Dates Served	Name of Student	Degree Awarded	Title of Dissertation/Essay
June 2015	Alexis Y. Carter	April 2017	Role of High Fat Diet on epigenetic changes in the brain of Alzheimer's disease model mice
January and May 2018	Emilie Castranio	July 2018	Role of APOE isoforms on Traumatic Brain Injury
November 2017	Amrita Sahu	3 rd year PhD student	Klotho expression with aging and arsenic exposure

Supervision of Post-Doctoral Students, Residents, and Fellows

Dates Supervised	Name of Student	Position of Student
2007 – 2013	Nicholas F. Fitz, PhD	Postdoctoral fellow
2007 – 2013	Andrea A. Cronican, PhD	Postdoctoral fellow
March 2014-2017	Kyong Nam, PhD	Postdoctoral fellow
April 2014-April 2015	Danko Georgiev MD, PhD	Postdoctoral fellow
April 2014-2016	Anais Mounier PhD	Postdoctoral fellow
2015-2016	Valerie L. Reeves	Postdoctoral fellow
April 2016-present	Florent Letronne	Postdoctoral fellow
July 2016-present	Hafsa Kamboh	Postdoctoral fellow

Mentoring of Graduate Students in Field Placements

Dates Supervised	Name of Student	Position of Student
2012	Mark Wong Chen	Master student
2012	Xiaozhuo Lu	Master student
2014	Cody M. Wolfe	Master student

Other Teaching and Training: Pre-doctoral students and University of Pittsburgh Undergraduate Training

Dates	Name of Student	Program/Description
May 2018-present	Sherrin Sennett	Pre-doctoral fellow
June 2017-June 2018	Heather Wells	Pre-doctoral fellow
2016-2018	Britany E. Playso	Pre-doctoral fellow
2015-2016	Jackson Towers B.S.	Pre-doctoral fellow
2014-2015	Saad Ahmed B.S.	Pre-doctoral fellow
2013-2014	Emilie Castranio B.S.	Pre-doctoral fellow
Dec 2012-July 2013	Sai Pratyusha Kancherla B.S	Pre-doctoral fellow
2011-2013	Muzamil Saleem M.S	Pre-doctoral fellow
June 2015 - present	Emily Jacobetz	Undergraduate, Department of Neuroscience
2012-2013	Iana Vodianova	Undergraduate, Department of Neuroscience
2012-2013	Luv Purohit	Undergraduate, Department of Neuroscience
2011-2013	Hiral Patel	Undergraduate, Department of Neuroscience
2011-2012	Sai Pratyusha Kancherla	Undergraduate, Department of Neuroscience
June -Aug 2009	Sean Egglestone	EOH Summer Undergraduate Research Program
June -Aug 2008	Mitchell Thompson III	EOH Summer Undergraduate Research Program
June -Aug 2008	Alexis Carter	Pitt STEER Program for High School Students

RESEARCH AND TRAINING

Extramural Grants Support – Active:

R01AG056371-01 **Koldamova R, Lefterov I. (MPI)**
NIH/NIA 06/01/2017 – 05/31/2022 Total amount \$1,900,000
“Age dependent APOE isoform specific effect on immune receptor mediated phagocytosis in brain

R56 AG057565-01 **Koldamova R, Lefterov I. (MPI)**
NIH/NIA 09/01/2017 – 08/31/2018 Total amount \$448,000
APOE orchestrated "molecular signatures" in aging brain and AD - the contribution of APOE2

R01ES024233 **Koldamova R, Lefterov I. (MPI)**
NIH/NIEHS 09/01/2014 – 08/31/2019 Total amount \$2,600,000
“Epigenetic and phenotypic effects of arsenic: impact on cognition and AD”

R01AG037919 Lefterov I. (PI)
NIH/NIA 08/01/2012 – 07/31/2017 Total amount \$2.375,000
“Genome wide analysis of LXR binding - metabolic and epigenetic regulation in AD”
At no cost extension

W81XWH-13-1-0384
Research Grant Lefterov I. (PI)
Department of Defense 09/30/2013 – 09/30/2017 Total amount \$750,000
“Role of APOE isoforms in the pathogenesis of TBI induced Alzheimer's disease
At no cost extension

Extramural Grant Support – Pending:

Pending council:

1R01AG057565A1-01A1 **Koldamova R, Lefterov I. (MPI)**
NIH/NIA 10/01/2018 – 09/31/2022 GRANT12596583

APOE Orchestrated Molecular Signatures in Aging Brain and AD-the Contribution of APOE2

Priority score: 22

Extramural Grant Support – Completed (Principal Investigator, only):

R01 AG037481 **Koldamova R. (PI)**
2013 – 2016 Minority supplement
NIH/NIA
“LXR and human ApoE isoform effects on AD phenotype: in vitro and in vivo models”

R01 AG037481 **Koldamova R. (PI)**
2015 Administrative supplement
NIH/NIA
“LXR and human ApoE isoform effects on AD phenotype: in vitro and in vivo models”

R01 AG027973 **Koldamova (PI)**
2007-2012
NIH/NIA

“Role of Abca1 in neurodegeneration”

AG027973
2007-2012
NIH/NIA

Koldamova (PI)
administrative supplement

“Role of Abca1 in neurodegeneration”

R21 AG027973
2005-2007
NIH/NIA

Koldamova (PI)

“Abca1: a potential therapeutic target for AD”

Invited Lectureships and Major Seminars Related to Research-Past 5 years

June 27-28, 2018, Tel Aviv Israel	Role of APOE lipoproteins in microglia response to Abeta	THE 26th TEL AVIV UNIVERSITY AD CONFERENCE
April 2018; LA	Effect of APOE isoform on microglial response to amyloid-b	Society for Brain Mapping and Therapeutics (SBMT) Alzheimer’s Disease Conference 2018
February 2018	“Role of Apolipoprotein E in Alzheimer’s disease: experimental and human data”	Invited speaker at Cleveland Clinic
October 19, 2017	Transcriptomic analysis of purified microglia from human APOE expressing mice reveals age- associated changes	Invited speaker at AAIC satellite meeting in Varna, Bulgaria.
September 2, 2017	APOE isoform-specific effect on A β clearance by microglia.	Invited speaker at TransportDEMENTIA meeting, Svolvar, Norway.
December 10, 2015	ABCA1, ApoE and ApoA-I and A β clearance through BBB	Invited speaker at TransportDEMENTIA meeting, Oslo, Norway
February 10, 2014	Regulation of APOE and its function in Alzheimer's disease by ABCA1 and nuclear receptors - a decade of research	Invited Seminar Speaker, Department of Neuroscience, Merck, West Point, PA
Nov, 2013	Apolipoprotein E, ABCA1 and Ab clearance.	Invited Seminar Speaker, Department of Neuroscience, Genentech, South San Francisco, CA
July, 2013	Apolipoprotein E and ABCA1: partners in Ab clearance	Annual Alzheimer’s Disease meeting, Tel- Aviv University, Israel

June, 2013

Abca1 regulation of ApoE function:
how significant is it for Alzheimer's
disease

ApoE, ApoE Receptors &
Neurodegeneration June 3-4th, 2013 -
Georgetown University in Washington,
DC

PUBLICATIONS

Referred Articles

Iliya Lefterov, Cody M. Wolfe, Nicholas F. Fitz, Kyong Nyon Nam, Florent Letronne, Julia Kofler, Xianlin Han, Jianing Wang, Jonathan Schug, Radosveta Koldamova. Multi-omics profiling identifies APOE-allele dependent lipid and gene expression patterns in Alzheimer's disease. *Molecular Neurodegeneration*: revised version re-submitted on June 20, 2018.

Castranio EL, Wolfe CM, Letronne F, Nam KN, Fitz NF, Koldamova R, Lefterov I. ABCA1 haplo deficiency affects the brain transcriptome following traumatic brain injury in mice expressing human APOE isoforms. Accepted in *Acta neuropathologica communications* on July 8 2018.

Nam KN, Wolfe C, Fitz NF, , Letronne F, Carter AY, Castranio EL, Schug J, Lefterov I, Koldamova R. Integrated approach reveals diet, APOE genotype and gender affect immune response in APP mice. *Biochim Biophys Acta*. 2017 Oct 14;1864(1):152-161. doi: 10.1016/j.bbadis.2017.10.018. [Epub ahead of print]

Nam KN, Mounier A, Wolfe C, Fitz NF, Carter AY, Castranio EL, Kamboh HI, Reeves VL, Wang J, Han X, Schug J, Lefterov I, Koldamova R. Effect of high fat diet on phenotype, brain transcriptome and lipidome in Alzheimer's model mice. *Sci Rep*. 2017 Jun 27;7(1):4307. doi: 10.1038/s41598-017-04412-2.

Castranio EL, Mounier A, Wolfe CM, Nam KN, Fitz NF, Letronne F, Schug J, Koldamova R, Lefterov I. Gene co-expression networks identify Trem2 and Tyrobp as major hubs in human APOE expressing mice following traumatic brain injury. *Neurobiol Dis*. 2017 Sep;105:1-14. doi: 10.1016/j.nbd.2017.05.006. Epub 2017 May 11.

Carter AY, Letronne F, Fitz NF, Mounier A, Wolfe CM, Nam KN, Reeves VL, Kamboh H, Lefterov I, Koldamova R. Liver X receptor agonist treatment significantly affects phenotype and transcriptome of APOE3 and APOE4 Abca1 haplo-deficient mice. *PLoS One*. 2017 Feb 27;12(2):e0172161. doi: 10.1371/journal.pone.0172161. eCollection 2017.

Fitz, N. F., et al. (2017) "Abca1 deficiency affects dendritic density and cognitive function in mice". *Journal of Alzheimer's Disease*, doi:10.3233/jad-161056 (2017)

Sweet RA, MacDonald ML, Ding Y, Schempf T, Jones-Laughner J, Kofler J, Ikonovic MD, Lopez OL, Garver ME, Fitz NF, Koldamova R, Yates NA. Apolipoprotein E*4 (APOE*4) Genotype Is Associated with Altered Levels of Glutamate Signaling Proteins and Synaptic Coexpression Networks in the Prefrontal Cortex in Mild to Moderate Alzheimer Disease. *Mol Cell Proteomics*. 2016 Jul;15(7):2252-62. doi: 10.1074/mcp.M115.056580. Epub 2016 Apr 21.

Kyong Nyon Nam, Anais Mounier, Nicholas F. Fitz, Cody Wolfe, Jonathan Schug, Iliya Lefterov and Radosveta Koldamova RXR controlled regulatory networks identified in mouse brain counteract deleterious effects of A β oligomers. *Sci Rep*. 2016 Apr 7;6:24048. doi: 10.1038/srep24048.

Nicholas F. Fitz, Victor Tapias, Andrea A. Cronican , Emilie Castranio, Muzamil Salem, Alexis Y. Carter, Martina Lefterova, Iliya Lefterov & Radosveta Koldamova, Opposing effects of Apoe/Apoa1 double deletion on amyloid β pathology and cognitive performance in APP mice. *Brain*. 2015 Dec;138(Pt 12):3699-715. doi: 10.1093/brain/awv293. Epub 2015 Oct 28.

Anais Mounier, Danko Georgiev, Kyong Nyon Nam, Nicholas F. Fitz, Emilie Castranio, Cody Wolfe, Andrea Cronican, Jonathan Schug, Iliya Lefterov and Radosveta Koldamova, Bexarotene activated

- Retinoid X Receptors regulate neuronal differentiation and dendritic complexity. [J Neurosci](#). 2015 Aug 26;35(34):11862-76. doi: 10.1523/JNEUROSCI.1001-15.2015.
- Lefterov, I., Jonathan Schug, Anais Mounier, Kyong Nyon Nam, Nicholas F. Fitz, and Radosveta Koldamova, *Neurobiology of Disease* “RNA-sequencing reveals transcriptional up-regulation of Trem2 in response to bexarotene treatment” (2015 Jun 10. pii: S0969-9961(15)00194-1).
- Koldamova R., Fitz FN, Lefterov I, ATP-binding cassette transporter A1: from metabolism to neurodegeneration. [Neurobiol Dis](#). 2014 Dec;72 Pt A:13-21. doi: 10.1016/j.nbd.2014.05.007
- Koldamova R., Fitz FN, Lefterov I, Metabolic Disorders and Neurodegeneration, introduction to the special issue, [Neurobiol Dis](#). 2014 Dec;72 Pt A:1-2.
- Nicholas F. Fitz, Emilie L. Castranio, Alexis Y. Carter, Ravindra Kodali, Iliya Lefterov & Radosveta Koldamova: Improvement of memory deficits and A β clearance in aged APP23 mice treated with a combination of anti-A β antibody and LXR agonist. *J Alzheimer's Disease* 2014 Mar 18. [Epub ahead of print]
- Koldamova R, Schug J, Lefterova M, Cronican AA, Fitz NF, Davenport FA, Carter A, Castranio EL, Lefterov I: “Genome-wide approaches reveal EGR1-controlled regulatory networks associated with neurodegeneration”. *Neurobiology Dis* 2014 Mar;63:107-14. doi: 10.1016/j.nbd.2013.11.005. Epub 2013 Nov 20.
- Fitz NF, Cronican AA, Lefterov I, Koldamova R. 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.123580
- Cronican AA, Fitz NF, Carter A, Saleem M, Shiva S, Barchowsky A, Koldamova R, Schug J, Lefterov I. Genome-wide alteration of histone H3K9 acetylation pattern in mouse offspring prenatally exposed to arsenic. *PLoS One*. 2013;8(2):e53478. doi:10.1371/journal.pone.0053478. Epub 2013 Feb 6
- Fitz NF, Cronican AA, Saleem M, Fauq AH, Chapman R, Lefterov I, Koldamova R. Abca1 deficiency affects Alzheimer's disease-like phenotype in human ApoE4 but not in ApoE3-targeted replacement mice. *J Neuroscience*. 2012 Sep 19;32(38):13125-36
- Lefterov I, Fitz NF, Cronican AA, Fogg A, Kodali R, Wetzel R, Radosveta Koldamova (2010) Apolipoprotein A-I deficiency increases cerebral amyloid angiopathy and cognitive deficits in APP/PS1dE9 mice. *J Biol Chem*. 285: 36945-36957.
- Fitz Nicholas, Andrea Cronican, Tam Pham, Allison Fogg, Abdul H. Fauq, Robert Chapman, Iliya Lefterov & Radosveta Koldamova (2010). LXR agonist treatment ameliorates amyloid pathology and memory deficits caused by high fat diet in APP23 mice. *J Neuroscience*, 30: 6862-72.
- Cronican, A.A., Fitz, N.F., Pham, T., Fogg, A., Kifer, B., Koldamova, R. & Lefterov, I. (2010) Proton pump inhibitor Lansoprazole is a nuclear Liver X Receptor agonist. *Biochemical Pharmacology*, 79: 1310-6.
- Lefterov I., Fitz N., Cronican A., Lefterov P., Staufenbiel M., and Koldamova R., (2009). Memory deficits in APP23/Abca1^{-/-} mice correlate with the level of A β oligomers. *ASN NEURO* (1):art:e0000x.doi:10.1042/AN20090015
- Cohen AD, Ikonovic MD, Abrahamson EE, Paljug WR, DeKosky ST, Lefterov IM, Koldamova RP, Shao L, Debnath ML, Mason NS, Mathis CA, Klunk WE (2009). Anti-Amyloid Effects Of Small Molecule A β -Binding Agents In PS1/APP Mice. *Letters in Drug Design and Discovery* 6: 437-444
- Lefterov, I.; Bookout, A.L.; Wang, Z.; Staufenbiel, M.; Mangelsdorf, D.; Koldamova, R. (2007) Expression profiling in APP23 mouse brain: inhibition of A β amyloidosis and inflammation in

response to LXR agonist treatment, *Mol. Neurodegeneration* 2: 20

- Koldamova RP, Staufenbiel M, Lefterov I, (2005). Lack of ABCA1 considerably decreases brain ApoE level and increases amyloid deposition in APP23 mice. *J Biol Chem.* 280: 43224-35.
- Klunk WE, Brian J. Lopresti, Milos D. Ikonovic, Iliya M. Lefterov, Radosveta P. Koldamova, Eric E. Abrahamson, Manik L. Debnath, Daniel P. Holt, Guo-feng Huang, Li Shao, Steven T. DeKosky, Julie C. Price and Chester A. Mathis (2005) "Binding of the PET Tracer, Pittsburgh Compound-B (PIB), reflects the Amount of A β in Alzheimer's Disease Brain, but not in PS1/APP Mouse Brain". *J. Neuroscience*, 25: 10598-606.
- William E. Klunk, Brian J. Lopresti, Milos D. Ikonovic, Iliya M. Lefterov, Radosveta P. Koldamova, Eric E. Abrahamson, Manik L. Debnath, Daniel P. Holt, Guo-feng Huang, Li Shao, Steven T. DeKosky, Julie C. Price and Chester A. Mathis. (2005) Binding of the PET Tracer, Pittsburgh Compound-B (PIB), reflects the Amount of A β in Alzheimer's Disease Brain, but not in PS1/APP Mouse Brain *J. Neuroscience*, Nov 16;25(46):10598-606
- Koldamova RP, Lefterov IM, Staufenbiel M, Wolfe D, Huang S, Glorioso JC, Walter M, Roth MG, Lazo JS, (2005). "The LXR ligand T0901317 decreases amyloid beta production in vitro and in a mouse model of Alzheimer's disease". *J Biol Chem.* 280: 4079-88.
- Koldamova RP, Lefterov IM, Ikonovic MD, Skoko J, Lefterov PI, DeKosky ST and Lazo JS (2003). "22R-Hydroxycholesterol and 9-cis-retinoic acid induce ABCA1 transporter expression and cholesterol efflux in brain cells and decrease Abeta secretion". *J Biol Chem.* 278(15):13244-56.
- Lazo JS, Ducruet AP, Koldamova RP. (2003) Sleuthful pharmacology *Mol Pharmacol.* 64(2):199
- Lefterov IM, Koldamova RP, Lefterova MI, Schwartz DR, Lazo JS (2001). Cysteine 73 in bleomycin hydrolase is critical for amyloid precursor protein processing. *Biochem. Biophys. Res. Comm.*, 283 (4):994-9.
- Koldamova RP, Lefterov IM, Lefterova MI, Lazo JS (2001). Apolipoprotein A-I directly interacts with amyloid precursor protein and inhibits A beta aggregation and toxicity. *Biochemistry.* 40(12):3553-60.
- Gadjeva, Vesselina G., and Radosveta P. Koldamova (2001). Spin-labeled 1-alkyl-1-nitrosourea synergists of antitumor antibiotics. *Anti-Cancer Drug Design*, Aug-Oct;16(4-5):247-53
- Lefterov IM, Koldamova RP, Lazo JS (2000). Human bleomycin hydrolase regulates the secretion of amyloid precursor protein. *FASEB J.* 14(12):1837-47.
- Koldamova, Radosveta P., Iliya M. Lefterov, Marc T. DiSabella, Simon C. Watkins, Ciprian Almonte and John S. Lazo (1999). Human bleomycin hydrolase binds ribosomal proteins. *Biochemistry*, 38 (22): 7111-7117.
- Koldamova, R. P. Lefterov, I. M., Gadjeva. V., Lazo, J. S., (1998) Essential Binding and Functional Domains of Human Bleomycin Hydrolase. *Biochemistry* 37 (8): 2282-2290.
- Koldamova R., Lefterov I., DiSabella M., and Lazo J. S., (1998). Evolutionarily conserved cysteine protease, human bleomycin hydrolase, binds to the human homologue of UBC9. *Molecular Pharmacology*, 54: 954-961.
- Lefterov, Iliya M., Radosveta P. Koldamova, Jeremy King, John S. Lazo (1998) The C-terminus of human bleomycin hydrolase is required for protection against bleomycin-induced chromosomal damage, *Mutation Res.* (421) 1 pp. 1-7
- Lefterov I. and R. Koldamova (1992) Schedule dependent variation in lymphocyte sensitivity to Bleomycin and repair of chromosomal aberrations at G2 stage. *Mutation Res.* 284: 184-195.

Koldamova R. and I. Lefterov (1991) Synergistic effect of CCNU and Bleomycin on human lymphocytes exposed at late- G1 and G2 stage of the cell cycle. *Mutation Res.* 260: 265-269

1. Books and Book Chapters - NA

2. Published Proceedings – NA

3. Invited Articles

Koldamova R, Fitz NF, Lefterov I. “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. [Epub ahead of print]

Koldamova R, Fitz NF, Lefterov IM. The role of ATP-Binding Cassette Transporter A1 in Alzheimer's disease and neurodegeneration (2010). *Biochemica and Biophysica Acta - Molecular and Cell Biology of Lipids*, 1801: 824-830.

Koldamova R and Lefterov IM. (2007) Role of LXR and ABCA1 in the Molecular pathology of Alzheimer disease – Implications for a New Therapeutic Approach, *Current Alzheimer Research*, 4, 171

4. Review Articles

Koldamova R, Fitz NF, Lefterov I. “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. [Epub ahead of print]

Koldamova R, Fitz NF, Lefterov IM. The role of ATP-Binding Cassette Transporter A1 in Alzheimer's disease and neurodegeneration (2010). *Biochemica and Biophysica Acta - Molecular and Cell Biology of Lipids*, 1801: 824-830.

Koldamova R and Lefterov IM. (2007) Role of LXR and ABCA1 in the Molecular pathology of Alzheimer disease – Implications for a New Therapeutic Approach, *Current Alzheimer Research*, 4, 171

Published Abstracts

McGraw W.T., R. Yamin, J.A. Sloane, R.P. Koldamova, I.M. Lefterov, D. R. Schwartz, G. Homanics, J.S. Lazo and C.R. Abraham. Examination of the cysteine protease bleomycin hydrolase as a candidate γ -secretase in APP transfected cells. (1998) *Proceedings, 1998 Annual Neuroscience meeting. Neurobiology of Aging*, vol. 19, Supplement.

Lefterov I., Koldamova R. and Lazo J. S. Bleomycin hydrolase binds to the human homologue of ubiquitin conjugating enzyme 9. *Proceedings, 1998 Annual AACR Meeting*, p221.

Koldamova R., Lefterov I. and Lazo J. S. (1997) Carboxyl terminus of human bleomycin hydrolase is essential for degradation of the anticancer drug bleomycin. *Proceedings, 1998 Annual AACR Meeting*, p221.

Koldamova Radosveta P., Iliya M. Lefterov, Martina I. Lefterova and John S. Lazo. Apolipoprotein-A directly interacts with amyloid precursor protein and inhibits A β aggregation and toxicity. Presented at the 2001 *Keystone Symposium on The Molecular Basis of Neurodegenerative Disease*. Steamboat Springs, Colorado, March 29 – April 3, 2001. Book of abstracts, p. 51

Lefterov Iliya M., Radosveta P. Koldamova, Martina I. Lefterova and John S. Lazo. Exploring protein interactions in primary neuronal cultures by using HSV-1 based recombinant vectors for multigene delivery. Presented at the 2001 *Keystone Symposium on The Molecular Basis of Neurodegenerative*

Disease. Steamboat Springs, Colorado, March 29 – April 3, 2001. Book of abstracts, p. 45.

Lefterov IM, Skoko JS, Lefterov PI, Koldamova RP, and Lazo JS. Expression of mutant PS1^{M146V} increases tau phosphorylation in amyloid- β treated primary neurons. (2002). *Neurobiology of Aging; Vol. 23:S216*

William E. Klunk, Brian J. Lopresti, Manik L. Debnath, Daniel P. Holt, Yanming Wang, Guo-feng Huang, Li Shao, Iliya Lefterov, Radosveta Koldamova, Milos Ikonovic, Steven T. DeKosky, Chester A. Mathis (2004). Amyloid Deposits in Transgenic PS1/APP Mice Do Not Bind the Amyloid PET Tracer, PIB, in the Same Manner as Human Brain Amyloid. *Neurobiology of Aging; Vol. 25, (S2): 232*

Iliya Lefterov, Radosveta Koldamova, Matthias Staufenbiel, Milos Ikonovic, Barbara Isanski, Steven T. DeKosky, John S. Lazo (2004) LXR ligand treatment in vitro and in vivo is followed by ABCA1 upregulation and decrease in Ab secretion. *Neurobiology of Aging; Vol. 25, (S2): 569*

Member of Organizing Committee, Alzheimer's Association International Conference Satellite Symposium, Varna, Bulgaria, October 2017.

<https://www.alz.org/varna/downloads/varna-alzheimers-research-symposium.pdf>

Presentations

A.Y. CARTER, A. A. CRONICAN, N. F. FITZ, E. L. CASTRANIO, F. A. 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.

A. A. CRONICAN, N. F. FITZ, F. A. DAVENPORT¹, E. L. 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

N. F. FITZ, A. A. CRONICAN, E. L. CASTRANIO, F. A. DAVENPORT, I. LEFTEROV, R. KOLDAMOVA; The effects of immunotherapy and LXR ligand co-treatment on amyloid neuropathology and cognition in APP23 model mice.

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.

A. 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.

Fitz, N., Lefterov, I., Koldamova, R. Role of Abca1 in Alzheimer's pathology and cognition. Presentation: University of Pittsburgh Postdoctoral Association: Data and Dine, Pittsburgh PA, June 2009

Allison. L. Fogg, N. F. Fitz, A. A. Cronican, S. Egglestone, T. Tulloch, P. Rajendran, I. Lefterov, R. Koldamova. Lack of ApoA-I increases amyloid deposition and aggravates memory deficits in APP/PS1 mice. *Presented at SfN meeting, Chicago, Oct 17-21, 2009*

Nicholas F. Fitz, Andrea A. Cronican, Allison L. Fogg, Sean Egglestone, Tim Tulloch, Iliya Lefterov & Radosveta Koldamova, LXR ligand treatment in APP23 mice on normal and high fat diet. *Presented at SfN meeting, Chicago, Oct 17-21, 2009*

Andrea A. Cronican. Nicholas Fitz, Allison Fogg, Sean Egglestone, Tim Tulloch, Priya Rajendran, Iliya Lefterov, and Radosveta P. Koldamova. "Effect of Abca1 and brain lipoproteins on in vivo A β

clearance in APP/PS1 mice". *Presented at SfN meeting, Chicago, Oct 17-21, 2009*

Fitz, N., Lefterov, I., Koldamova, R. Influence of Abca1 on Alzheimer's pathology and cognition. Presentation: Celebrating Research on Aging, Pittsburgh PA, December 2008

Koldamova, R., Fitz, N.; Cronican, A., Lefterov, P., Lefterov, I., Regulatory role of Abca1 and brain lipoproteins in Ab oligomerization and deposition - comparative pathology in ABCA1ko and ApoA-1ko/ApoEko mice, 2008 Society for Neuroscience Meeting, Washington D.C., November 2008

Fitz, N., Lefterov, I., Lefterov, P., Staufenbiel, M., Koldamova, R. Amyloid beta oligomerization and fibrillization associated with working memory impairments in APP23/ABCA1^{+/-} mice - implications for the role of ABCA1 in Alzheimer's disease. 2008 Society for Neuroscience Meeting, Washington D.C., November 2008

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I. Lefterov, A. Bookout, M. Staufenbiel, D. Mangelsdorf, R. Koldamova. "Effects of LXR ligands on inflammatory response in primary microglia and AD transgenic animals" Presented at the Society for Neuroscience Meeting in Atlanta, GA., October 13-18, 2006.

William E. Klunk, Brian J. Lopresti, Manik L. Debnath, Guo-feng Huang, Li Shao, Iliya Lefterov, Radosveta Koldamova, Milos D. Ikonovic, Steven T. DeKosky, Chester A. Mathis, University of Pittsburgh, Pittsburgh, PA, USA. "Low Binding of the Amyloid PET Tracer, PIB, to Transgenic PS1/APP Mouse Brain Compared to Human AD Brain Explained by Bmax". Presented at the Alzheimer's Association International Prevention of Dementia Conference in Washington, D.C., USA, June 18 - 21, 2005.

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Non-Print Media

[Pitt researchers verify cancer drug improves Alzheimer's symptoms in mice](#)

Pittsburgh Tribune-Review

May 23, 2013

[Doubt Cast on Potential Alzheimer's Treatment](#)

The Wall Street Journal (paid access)

May 23, 2013

[Labs reject dramatic findings on cancer drug in Alzheimer's mice](#)

Reuters (picked up by Chicago Tribune, [TVNZ](#), [World Bulletin](#), [The New Age](#), [MedCity News](#),

May 23, 2013

[Alzheimer's 'wonder drug' could be completely ineffective, warn scientists](#)

Daily Mail

May 24, 2013

[Studies cast doubt on cancer drug as Alzheimer's treatment](#)

Nature (picked up by [Scientific American](#),

May 23, 2013

[Drug Reverses Alzheimer's Disease Deficits in Mice](#)

Science Daily (similar stories in [FARS News Agency](#), [News Track India](#), [Health Canal](#), [MedicalXpress](#), [BioPortfolio](#), [World News Connection](#), [Web India 123](#),

May 23, 2013

[Alzheimer's breakthrough 'may be too good to be true'](#)

Scotsman

May 24, 2013

[Alzheimer's disease miracle drug controversy unresolved](#)

Examiner

May 24, 2013

Interview with WSJ: comment on paper by Cramer et al.

<http://online.wsj.com/article/SB10001424052970204642604577213113324707968.html>

Koldamova R and Lefterov I. Comment on paper by Lee JH. et al., 2009, Alzheimer Research Forum, 30 Sep 2009; <http://www.alzforum.org/pap/annotation.asp?powID=94582#{03789BCC-B657-4EEB-B8DD-4C42F67BA874}>

Koldamova R. Comment on paper by Jiang et al., (2008). Alzheimer Research Forum. 17 June, 2008; <http://www.alzforum.org/new/detail.asp?id=1849#{E464D97D-9668-4277-BE89-6ADABD3C389A}>

Koldamova R. Comment on paper by Kim et al., (2008). Alzheimer Research Forum, 5 Feb 2008; <http://www.alzforum.org/pap/annotation.asp?powID=74035#{BE8C42ED-A347-4F5D-A29C-5ECB8629E371}>

Koldamova R. Comment on paper by Liu Q. et al., (2007), Alzheimer Research Forum, 10 Oct 2007; <http://www.alzforum.org/pap/annotation.asp?powID=70815#{6706EAD6-59B5-466A-B95C-F603A2D2EB02}>

Koldamova R and Lefterov I. Comment on paper by Zelcer et al., (2007) Alzheimer Research Forum, 17 June 2007; <http://www.alzforum.org/new/detail.asp?id=1613#{613C0AB5-6469-41A2-968A-5058EA2BA3C1}>

Koldamova R and Lefterov I. Comment on Paper by Wahrle S. et al. (2005). Alzheimer Research Forum, 21 Oct 2005; <http://www.alzforum.org/new/detail.asp?id=1267#{966D623A-BF26-448D-99D7-776D6350B4C2}>

Koldamova R and Lefterov I. Comment on Paper by van den Elzen P. et al. (2005). Alzheimer Research Forum, 21 Oct 2005; <http://www.alzforum.org/new/detail.asp?id=1267#{B492C908-2803-4876-B557-06045C004AC4}>

SERVICE

Service to School and University

Years	Committee	Position
January 2015-present	GSPH Council, University of Pittsburgh,	member
2011-2015	GSPH, University of Pittsburgh, Faculty Diversity Committee	member

Service to Field of Scholarship

Editorial Boards, Editorships

Date	Position	Organization
July 2013 – June 2014	Guest Editor SI on Metabolism and Neurodegeneration	Neurobiology of Disease
January 2015-present	Associate editor	Journal of Alzheimer’s disease (JAD)

Study Sections and Review Panels

Date	Position	NIH Study Section / Panel
November, 2017	Reviewer	NIH/NIA, special emphasis panel, PAR16-370 and PAR16-371) on APOE2
September, 2017	Reviewer	Brain Disorders and Clinical Neuroscience (BDCN) PAR17-033: Integrative Research to Understand the Impact of Sex Differences on the Molecular Determinants of AD Risk and Responsiveness to Treatment [ZRG1 BDCN-K (55) R]
July-17	Reviewer	NIH/NIA, special emphasis panel, PAR16-370 and PAR16-371) on APOE2
December, 2016	Reviewer	NINDS Special Emphasis Panel (SEP) ZNS1 SRB-C(02) to review two Program Project Grant proposals
August, 2016	Reviewer	NIH Special Emphasis Panel/Scientific Review Group 2016/10 ZGM1 RCB-0 (SC) meeting.
June, 2016	Reviewer	NIH, Integrative Physiology of Obesity and Diabetes (IPOD) Study Section
March 2016	Reviewer	NIH Cellular and Molecular Biology of Neurodegeneration (CMND) Study Section
June, 2014	Reviewer	NIH , Molecular and Integrative Signal Transduction (MIST) Study Section and SRO, Retinopathy Studies member SEP, ZRG1 CB-G(02)
July, 2013	Reviewer	NIH/NIA, special emphasis panel

Date	Position	Organization
June, 2013	Reviewer	NIH/NIA, special emphasis panel
April, 2012	Reviewer	NIH/NIA-special emphasis panel
June, 2012	Reviewer	NIH/NIA-special emphasis panel
October 30, 2011	Reviewer	Special Emphasis Panel/Scientific Review Group 2012/01 ZAG1 ZIJ-6 (J2) meeting
June, 2011	Reviewer	NIH, CDIN study section
2007	Reviewer	NIH/NIA-special emphasis panel
2008	Reviewer	NIH/NIA-special emphasis panel
2009	Reviewer	NIH/NIA-special emphasis panel
2010	Reviewer	NIH/NIA-special emphasis panel

Other agencies

2006 – Present	Reviewer	Alzheimer’s disease Association; Grant Review Panel
2004 – Present	Reviewer	ADRC, University of Pittsburgh, Review Panel
July, 2016	Reviewer	China-Israel NSFC-ISF Joint Scientific Research Program Grants
October, 2016	Reviewer	National Science Foundation, Modulation program of the Neural Systems Cluster of BIO/IOS
October, 2011	Reviewer	National Science Centre, Poland Internationale Stichting
2007-2008	Ad-hoc Reviewer	Alzheimer Onderzoek. (ISAO) Netherlands

Leadership in Scholarly and Professional Organizations and Honorary Societies - NA

Service for Practice and Policy-Making, including Consultantships-NA

a. Governmental Organizations - NA

Date	Position	Type of Service and/or Agency
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Manuscript and Other Document/Publication Review

Journal Title

ACS Chemical Neuroscience,
Acta Neuropathologica
American Journal of Medical Genetics
BBA - Molecular and Cell Biology of Lipids
BBA – Molecular Mechanisms of Disease
Biochemical Journal
Current Alzheimer’s Disease (CAR)
Experimental Gerontology
Journal of Alzheimer’s disease (JAD)
Journal of Biological Chemistry (JBC)
Journal of Experimental Medicine (JEM),
Journal of Neurochemistry
Journal of Neuroscience
Journal of Neuroscience Methods
JPET
Molecular Biology Reports;
Molecular Neurodegeneration
Molecular Pharmacology
Neurobiology of Aging
Neurobiology of Disease
Neurochemistry International
Neurodegenerative disease
Neuroscience
Pharmacogenomics Journal
PLoS ONE

Advisory Boards

Sept 2011- present	Member of advisory board	Resverlogix Corp. (TSX:RVX) Calgary, AB T2X 1M2
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Leadership in Scholarly and Professional Organizations and Honorary Societies - NA

Service for Practice and Policy-Making, including Consultantships-NA

a. Governmental Organizations - NA

Date	Position	Type of Service and/or Agency
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