

POSTDOCTORAL FELLOWSHIP**12/2019 – present VOLLUM INSTITUTE AT OHSU PORTLAND, OR**

- **Postdoctoral Fellow – Biological Bases of Drug-Seeking Behavior**
 - NIDA – 5T32DA007262-27; PI: John Williams
 - Mentor – John Williams, Ph. D.

EDUCATION**08/2015 – 11/2019 UNIVERSITY OF FLORIDA GAINESVILLE, FL**

- **PhD – Neuroscience**
 - PI: Habibeh Khoshbouei, Pharm.D. Ph.D.
 - Dissertation: Kv2.1 Clusters as Discrete Regulatory Microdomains of Dopamine Transporter Trafficking, Mobility, and Activity
- **Pre-Doctoral Fellow – NINDS Interdisciplinary T32 in Movement Disorders and Neurorestoration (08/2017-08/2019)**
 - NINDS - T32-NS082168; PI's: Dawn Bowers & David Vaillancourt

01/2010 - 12/2013 FLORIDA STATE UNIVERSITY TALLAHASSEE, FL

- **B.S. - Major: Biological Science. Minor: Philosophy.**
- **Research PI: Jim Fadool**
 - Thesis: "Protecting Against Rod Degeneration In A Model Of Retinitis Pigmentosa"

ADVANCED TRAINING**05/2018 ANALYTICAL & QUANTITATIVE LIGHT MICROSCOPY MBL - WOODS HOLE, MA**

- Nine day long theoretical and practical course in light microscopy. Concepts covered include: components & construction of a light microscope, ray and wave optics, fluorescent probes and advanced techniques, super-resolution and deconvolution microscopy, light sheet microscopy, machine learning and automated image processing
- Course Directors: Wendy Salmon (Whitehead Institute), Jagesh Shah (Harvard Medical School), Justin Taraska (NIH - NHLBI), Gary Lavesky (Princeton University)

POSITIONS HELD

12/2016 – 05/2018 RECRUITMENT REPRESENTATIVE - UF COM IDP IN BIOMEDICAL SCIENCES
11/2016 – 08/2017 CO-MANAGER – MCKNIGHT BRAIN INSTITUTE MOUSE BEHAVIOR CORE
06/2016 – 06/2017 TREASURER - NORTH CENTRAL FL SOCIETY FOR NEUROSCIENCE
06/2016 – 06/2017 GRADUATE STUDENT REPRESENTATIVE- UF COM GRADUATE EDUCATION COMMITTEE
04/2016 – 08/2017 SENATOR - UNITED FACULTY OF FLORIDA
08/2015 – 08/2017 COLLEGE OF MEDICINE STEWARD - GRADUATE ASSISTANTS UNITED
08/2015 – 08/2016 FIRST YEAR REPRESENTATIVE - UF IDP GRADUATE STUDENT ORGANIZATION
05/2011 - 12/2012 SHIFT LEADER - FLORIDA STATE UNIVERSITY STRENGTH & CONDITIONING
05/2011 – 12/2011 PRESIDENT - TO WRITE LOVE ON HER ARMS FSU UCHAPTER

AWARDS AND HONORS

08/2019 1ST PLACE, ART IN NEUROSCIENCE COMPETITION, UF NEUROSCIENCE RETREAT
03/2019 3RD PLACE, W.G. LUTTGE AWARD - OUTSTANDING GRAD RESEARCH IN NEUROSCIENCE
02/2019 3RD PLACE, NORTH CENTRAL FL SOCIETY FOR NEUROSCIENCE POSTER COMPETITION
04/2018 ASPET MENTORING NETWORK TRAVEL AWARD
05/2017 UF CENTER FOR ADDICTION RESEARCH AND EDUCATION TRAVEL AWARD
03/2017 1ST PLACE, NORTH CENTRAL FL SOCIETY FOR NEUROSCIENCE POSTER COMPETITION
11/2016 ASPET GRADUATE STUDENT TRAVEL AWARD

08/2016	1 st Place, UF NEUROSCIENCE RETREAT POSTER COMPETITION
05/2016	UF CENTER FOR ADDICTION RESEARCH AND EDUCATION TRAVEL AWARD
08/2015 – 08/2018	UF COLLEGE OF MEDICINE GRINTER SCHOLAR
08/2009 - 12/2013	FLORIDA BRIGHT FUTURES SCHOLARSHIP RECIPIENT
08/2012 - 05/2013	FLORIDA STATE UNIVERSITY CAMPUS RECREATION SERVICE SCHOLARSHIP
12/2013	FLORIDA STATE UNIVERSITY HONORS IN THE MAJOR DISTINCTION
10/2013	2 ND PLACE, TRI-BETA BIOLOGICAL HONOR SOCIETY ANNUAL POSTER COMPETITION
05/2013 - 08/2014	FSU MENTORED RESEARCH AND CREATIVE ENDEAVORS AWARD

PROFESSIONAL SOCIETY MEMBERSHIPS

12/2018 - present	UF CENTER FOR ADDICTION RESEARCH AND EDUCATION
04/2018 – 04/2019	AMERICAN SOCIETY FOR PHARMACOLOGY AND EXPERIMENTAL THERAPEUTICS MENTORING NETWORK
11/2017 - present	INTERNATIONAL TRANSMEMBRANE TRANSPORTER SOCIETY
08/2016 - present	AMERICAN SOCIETY FOR PHARMACOLOGY AND EXPERIMENTAL THERAPEUTICS
09/2015 - present	NORTH CENTRAL FLORIDA CHAPTER - SOCIETY FOR NEUROSCIENCE
08/2015 - present	SOCIETY FOR NEUROSCIENCE
08/2015 – 08/2017	UNITED FACULTY OF FLORIDA
08/2015 – 08/2017	NATIONAL EDUCATION ASSOCIATION
08/2015 – 08/2017	GRADUATE ASSISTANTS UNITED
09/2010 – 12/2016	NATIONAL STRENGTH AND CONDITIONING ASSOCIATION

INVITED LECTURES

- DIVERSE CHARACTER AND FUNCTIONS OF POTASSIUM CHANNELS. COURSE: ION CHANNELS OF EXCITABLE MEMBRANES, UNIVERSITY OF FLORIDA GRADUATE SCHOOL.

REVIEW SERVICES

- *NEUROSCIENCE LETTERS*

PEER REVIEWED PUBLICATIONS

- Wasserfall CH, Beachy DE, Hiller H, **Lebowitz JJ**, Engler S, Mason JR, Miller DM, Kusmarteva I, Jacobsen LM, Posgai AL, Khoshbouei H, Oram R, Schatz DA, Hattersley AT, Bodenmiller B, Nick HS, Atkinson MA. Monogenetic transcriptomic strategy reveals altered gene expression in multifactorial type 1 diabetes. (*under review – Nature Communications*)
- Lin M, Colon-Perez LM, Sambo DO, Miller DM, **Lebowitz JJ**, Jimenez-Rondan F, Cousins RJ, Horenstein N, Beker Aydemir T, Febo M, Khoshbouei H. Mechanism of manganese dysregulation of dopamine neuronal activity. (*under review - eLife*)
- **Lebowitz JJ**, Khoshbouei H. Heterogeneity of dopamine release sites in health and disease. Review. *Neurobiology of Disease* (*in press*)
- Miller DR, **Lebowitz JJ**, Guenther DT, Refowich AJ, Hansen C, Maurer AP, Khoshbouei H. Methamphetamine regulation of activity and topology of ventral midbrain networks. 2019. *PLOS ONE*
- **Lebowitz JJ**, Pino JA, Mackie PM, Lin M, Hurst C, Divita K, Collins AT, Koutzoumis DN, Torres GE, Khoshbouei H. Clustered Kv2.1 decreases dopamine transporter activity and internalization. 2019. *Journal of Biological Chemistry*. **294**, 6957-6971
- Sharma RK, Lobaton G, Oliveria A, Aquino V, **Lebowitz JJ**, Ahmari N, Seungbum K, Khoshbouei H, Summers C, Richards EM, Raizada MK. CMT-3, an anti-inflammatory, non-antibiotic tetracycline, attenuates AngII-induced hypertension. 2018. *Hypertension*. **71(6)**, 1156-1163

- Mackie P, **Lebowitz J**, Saadatpour L, Nickoloff E, Gaskill P, Khoshbouei H. The dopamine transporter: An unrecognized nexus for dysfunctional peripheral immunity and signaling in Parkinson's Disease. 2018. *Brain, Behavior, and Immunity*. **70**, 21-35 Review.
- Sambo D, **Lebowitz JJ**, Khoshbouei H. The sigma-1 receptor as a regulator of dopamine neurotransmission: a potential therapeutic target for methamphetamine addiction. 2018. *Pharmacology and Therapeutics*. **186**, 152-167 Review.
- Sambo D, Lin M, Owens A, **Lebowitz JJ**, Richardson B, Jagnarine DA, Madhur S, Alonge T, Ali M, Katz J, Febo M, Henry K, Bruijnzeel AW, Daws L, Khoshbouei H. The sigma-1 receptor regulates methamphetamine-stimulation of dopamine transporter activity. 2017. *Nature Communications*. **8(1)**, 2228
- **Lebowitz, J**, Fadool FM. Protecting against rod degeneration in a Model of retinitis pigmentosa. 2013. *Honors Theses - FSU DigiNole*

ABSTRACTS AND PRESENTATIONS

- **Lebowitz JJ**. Clustered Kv2.1 decreases dopamine transporter activity and internalization. Talk. 2019. *Florida Translational Cell Biology Symposium*.
- **Lebowitz JJ**, Pino JA, Mackie PM, Lin M, Hurst C, Divita K, Collins AT, Torres GE, Khoshbouei H. Clustered Kv2.1 decreases dopamine transporter activity and internalization. Poster. 2019. *UF Center for Addiction Research and Education Annual Conference*
- **Lebowitz JJ**, Pino JA, Mackie PM, Lin M, Hurst C, Divita K, Collins AT, Torres GE, Khoshbouei H. Clustered Kv2.1 decreases dopamine transporter activity and internalization. 2019. Poster. *UF College of Medicine Research Poster Session*
- **Lebowitz JJ**, Pino JA, Mackie PM, Lin M, Hurst C, Divita K, Collins AT, Torres GE, Khoshbouei H. Clustered Kv2.1 decreases dopamine transporter activity and internalization. Poster. 2019. *North Central Florida Chapter of the Society for Neuroscience Annual conference*.
- Phan L, Shaerzadeh F, Dacquel M, Bechtle A, Hachmeister W, **Lebowitz JJ**, Miller D, Streit W, Foster T, Kumar A, Khoshbouei H. Aging increases microglia senescence in the midbrain region: a risk factor in Parkinson's Disease. Poster. 2019. *UF College of Medicine Research Poster Session*
- Ahmari N, **Lebowitz JJ**, Miller DM, Gopinath AK, Larkin RM, Blaker NJ, Malphurs W, Martyniuk CJ, Khoshbouei H, Hayward L, Zubcevic J. Reduced bone marrow adrenergic receptor signaling is protective against microglia activation *ex vivo* following high fat diet. Dynamic poster. 2018. *Society for Neuroscience Annual Conference*.
- **Lebowitz, JJ***, Bracksieck S*, Vaillancourt D. Baseline DJ-1 levels do not predict the rate of protein aggregation detected in the CSF of Parkinson's Disease patients. Talk. 2018. *Grand Rounds - UF Center for Movement Disorders and Neurorestoration*. (*co-first author)
- **Lebowitz, JJ**, Lin M, Pino JA, Divita K, Henckel C, Lin ML, Torres GE, Khoshbouei H. Dopamine Transporter activation regulates Kv2.1 cluster size and activation potential. Talk. 2018. *ASPET Daily Data Blitz at Experimental Biology 2018*.
- **Lebowitz, JJ**, Lin M, Pino JA, Divita K, Henckel C, Lin ML, Torres GE, Khoshbouei H. Dopamine Transporter activation regulates Kv2.1 cluster size and activation potential. Poster. 2018. *ASPET at Experimental Biology 2018*.
- **Lebowitz, JJ**, Lin M, Pino JA, Divita K, Henckel C, Lin ML, Torres GE, Khoshbouei H. Dopamine Transporter activation regulates Kv2.1 cluster size and activation potential. Poster. 2018. *UF College of Medicine Celebration of research*
- **Lebowitz, JJ**, Pino JA, Sambo D, Streit S, Divita K, Henckel C, Lin ML, Torres GE, Khoshbouei H. Dopamine Transporter activation regulates Kv2.1 cluster size and activation potential. Poster. 2017. *Society for Neuroscience Annual Conference*.
- **Lebowitz, JJ**. Functional Interaction and Bidirectional Regulation of Kv2.1 and DAT. Presentation. 2017. *UF Center for Addiction Research and Education Annual Data Blitz*
- Sharma RK, Lobaton G, Oliveria A, Aquino V, **Lebowitz JJ**, Ahmari N, Seungbum K, Khoshbouei H, Summers C, Richards EM, Raizada MK. CMT-3, an anti-inflammatory, non-antibiotic tetracycline, attenuates AngII-induced hypertension. Poster. 2017. *Experimental Biology Annual Meeting*.
- **Lebowitz, JJ**, Pino JA, Sambo D, DiVita K, Streit S, Khoshbouei H, Torres GE. "Kv2.1 and the Dopamine Transporter Interact in Dopaminergic Neurons" Poster. 2017. *North Central Florida Society for Neuroscience Annual Conference*

- **Lebowitz, JJ**, Pino JA, Sambo D, DiVita K, Streit S, Khoshbouei H, Torres GE. “Kv2.1 and the Dopamine Transporter Interact in Dopaminergic Neurons” Poster. 2016. *Pharmacology 2016 – UK*
- Pino-Reyes JA, Cheng MH, Pullara F, Gopinath A, Saha K, **Lebowitz JJ**, Khoshbouei H, Garcia-Olivares J, Amara SG, Bahar I, Torres GE. “Identification of residues involved in the dopamine transporter-G β γ interaction and dopamine efflux” Poster. 2016. *Society for Neuroscience Annual Conference*
- **Lebowitz, JJ**, Pino JA, Sambo D, DiVita K, Streit S, Khoshbouei H, Torres GE. “Kv2.1 and the Dopamine Transporter Interact in Dopaminergic Neurons” Poster. 2016. *Society for Neuroscience Annual Conference*.
- **Lebowitz, JJ**, Pino JA, Sambo D, Streit S, Khoshbouei H, Torres GE. “Kv2.1 and the Dopamine Transporter Interact in Dopaminergic Neurons *in vivo*” Poster. 2016. *UF Department of Neuroscience Biannual Retreat*
- **Lebowitz, JJ**. "Kv2.1 and the Dopamine Transporter Interact in Dopaminergic Neurons” Presentation. 2016. *UF Center for Addiction Research and Education Seminar*
- **Lebowitz, JJ**, Pino JA, Sambo D, Streit S, Khoshbouei H, Torres GE. “Kv2.1 and the Dopamine Transporter Interact in Dopaminergic Neurons *in vivo*” Poster. 2016. *UF Center for Addiction Research and Education Symposium*
- **Lebowitz, JJ**, Pino JA, Sambo D, Streit S, Khoshbouei H, Torres GE. “Kv2.1 and the Dopamine Transporter Interact in Dopaminergic Neurons *in vivo*” Poster. 2016. *UF PSP/Lewy Body Disease ThinkTank*.
- **Lebowitz, JJ**, Khoshbouei H. “Does the dopamine transporter modulate oligomerization of Kv2.1” Presentation. 2016. *North Central Florida Society for Neuroscience Annual Conference*
- **Lebowitz, J.**, Fadool, J.M. "Protecting Against Photoreceptor Degeneration in a Model of Retinitis Pigmentosa" Poster. 2013 *Showcase of Undergraduate Research Excellence*.