

Laura J. Blair, PhD
 USF Health Byrd Institute
 Department of Molecular Medicine
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Professional Experience

2016-Present Assistant Professor, Department of Molecular Medicine, MCOM, University of South Florida, Tampa, FL

2014-2016 Postdoctoral Scholar, Department of Molecular Medicine, MCOM, University of South Florida, Tampa, FL (PI: Chad Dickey)

2009-2014 Graduate Research Assistant, Department of Molecular Medicine, MCOM, University of South Florida, Tampa, FL (PI: Chad Dickey)

2008-2009 Research Technician, Department of Molecular Medicine, MCOM, University of South Florida, Tampa, FL (PI: Chad Dickey)

2006-2008 Undergraduate Research, Department of Chemistry, University of South Florida, Tampa, FL (PI: Bill Baker)

Education

INSTITUTION AND LOCATION	DEGREE	YEAR	FIELD OF STUDY
University of South Florida, Tampa, FL	PhD	2014	Medical Sciences Emphasis: Molecular Medicine
University of South Florida, Tampa, FL	MS	2013	Medical Sciences Emphasis: Molecular Medicine
University of South Florida, Tampa, FL	BA	2009	Chemistry with Biochemistry emphasis Minors: Public Health and Business

Research Support

National Institutes of Health/NIMH 1R01MH103848 (PI: LJ Blair)
 Modeling stress-related psychopathology through FKBP5 manipulation
 Through 09/30/2019: \$272,400 direct costs/year

National Institutes of Health/NIA 1R01AG055088 (MPI: LJ Blair with P Bickford (contact) and V Uversky)
 Controlling tau toxicity from inside and outside of neurons
 Through 05/31/2022: \$309,703 direct costs/year

Collaborative Research Agreement with Boehringer Ingelheim (PI: LJ Blair)
 Through 12/15/2020 \$10,000 direct costs/year

Peer-reviewed Publications

- Huard DJE, Crowley VM, Du Y, Cordova RA, Sun Z, Tomlin MO, Dickey CA, Koren J 3rd, **Blair L**, Fu H, et al. Trifunctional High-Throughput Screen Identifies Promising Scaffold To Inhibit Grp94 and Treat Myocilin-Associated Glaucoma. **ACS Chem Biol.** 2018 Feb 20. doi: 10.1021/acschembio.7b01083. [Epub ahead of print] PubMed PMID: 29402077.
- Criado-Marrero M, Rein T, Binder EB, Porter JT, Koren III J, **Blair LJ**. "Hsp90 and FKBP51: complex regulators of psychiatric diseases." **Philos Trans R Soc Lond B Biol Sci.** 2018 Jan 19;373(1738). pii:

20160532. doi: 10.1098/rstb.2016.0532. Review. PubMed PMID: 29203717; PubMed Central PMCID: PMC5717532.

3. Stothert AR, Suntharalingam A, Tang X, Crowley VM, Mishra SJ, Webster JM, Nordhues BA, Huard DJE, Passaglia C, Lieberman RL, Blagg BSJ, **Blair LJ***, Koren III J*, Dickey CA. Isoform-selective Hsp90 inhibition rescues model of hereditary open-angle glaucoma. **Sci Rep.** 2017 Dec 20 Epub. DOI: 10.1038/s41598-017-18344-4 ***Corresponding author**
4. Shelton LB, Koren III J, **Blair LJ.** "Imbalances in the Hsp90 chaperone machinery: Implications for tauopathies." **Front. Neurosci.** 2017; 11: 724. Published online 2017 Dec 22. doi: 10.3389/fnins.2017.00724. PMCID: PMC5744016.
5. Shelton LB*, Baker JD*, Zheng D*, Sullivan LE, Solanki PK, Webster JM, Sun Z, Sabbagh JJ, Nordhues BA, Koren J 3rd, Ghosh S, Blagg BSJ, **Blair LJ***, Dickey CA. Hsp90 activator Aha1 drives production of pathological tau aggregates. **Proc Natl Acad Sci U S A.** 2017 Sep 5;114(36):9707-9712. doi: 10.1073/pnas.1707039114. Epub 2017 Aug 21. PubMed PMID: 28827321; PubMed Central PMCID: PMC5594679. ***Corresponding author**
6. Baker JD*, Shelton LB*, Zheng D*, Favretto F, Nordhues BA, Darling A, Sullivan LE, Sun Z, Solanki PK, Martin MD, Suntharalingam A, Sabbagh JJ, Becker S, Mandelkow E, Uversky VN, Zweckstetter M, Dickey CA, Koren J 3rd, **Blair LJ.** Cyclophilin 40 and Amyloid Disaggregation. **PLoS Biol.** 2017 Jun 27;15(6):e2001336. doi: 10.1371/journal.pbio.2001336. eCollection 2017 Jun. PubMed PMID: 28654636.
7. Sabbagh JJ, Fontaine SN, Shelton LB, **Blair LJ,** Hunt JB Jr, Zhang B, Gutmann JM, Lee DC, Lloyd JD, Dickey CA. Noncontact Rotational Head Injury Produces Transient Cognitive Deficits but Lasting Neuropathological Changes. **J Neurotrauma.** 2016 Oct 1;33(19):1751-1760. PubMed PMID: 26739819; PubMed Central PMCID: PMC5065038.
8. Zheng D, Sabbagh JJ, **Blair LJ,** Darling AL, Wen X, Dickey CA. MicroRNA-511 Binds to FKBP5 mRNA, Which Encodes a Chaperone Protein, and Regulates Neuronal Differentiation. **J Biol Chem.** 2016 Aug 19;291(34):17897-906. doi: 10.1074/jbc.M116.727941. PubMed PMID: 27334923; PubMed Central PMCID: PMC5016178.
9. Fontaine SN, Zheng D, Sabbagh JJ, Martin MD, Chaput D, Darling A, Trotter JH, Stothert AR, Nordhues BA, Lussier A, Baker J, Shelton L, Kahn M, **Blair LJ,** Stevens SM Jr, Dickey CA. DnaJ/Hsc70 chaperone complexes control the extracellular release of neurodegenerative-associated proteins. **EMBO J.** 2016 Jul 15;35(14):1537-49. doi: 10.15252/embj.201593489. PubMed PMID: 27261198; PubMed Central PMCID: PMC4946142.
10. **Blair LJ,** Baker JD, Sabbagh JJ, Dickey CA. The emerging role of peptidyl-prolyl isomerase chaperones in tau oligomerization, amyloid processing, and Alzheimer's disease. **J Neurochem.** 2015 Apr;133(1):1-13. doi: 10.1111/jnc.13033. Review. PubMed PMID: 25628064; PubMed Central PMCID: PMC4361273.
11. **Blair LJ,** Frauen HD, Zhang B, Nordhues BA, Bijan S, Lin YC, Zamudio F, Hernandez LD, Sabbagh JJ, Selenica ML, Dickey CA. Tau depletion prevents progressive blood-brain barrier damage in a mouse model of tauopathy. **Acta Neuropathol Commun.** 2015 Jan 31;3:8. doi: 10.1186/s40478-015-0186-2. PubMed PMID: 25775028; PubMed Central PMCID: PMC4353464.
12. **Blair LJ,** Sabbagh JJ, Dickey CA. Targeting Hsp90 and its co-chaperones to treat Alzheimer's disease. **Expert Opin Ther Targets.** 2014 Oct;18(10):1219-32. doi: 10.1517/14728222.2014.943185. Review. PubMed PMID: 25069659; PubMed Central PMCID: PMC4625388.

13. Selenica ML, Davtyan H, Housley SB, **Blair LJ**, Gillies A, Nordhues BA, Zhang B, Liu J, Gestwicki JE, Lee DC, Gordon MN, Morgan D, Dickey CA. Epitope analysis following active immunization with tau proteins reveals immunogens implicated in tau pathogenesis. **J Neuroinflammation**. 2014 Sep 3;11:152. doi: 10.1186/s12974-014-0152-0. PubMed PMID: 25183004; PubMed Central PMCID: PMC4167523.
14. Sabbagh JJ, O'Leary JC 3rd, **Blair LJ**, Klengel T, Nordhues BA, Fontaine SN, Binder EB, Dickey CA. Age-associated epigenetic upregulation of the FKBP5 gene selectively impairs stress resiliency. **PLoS One**. 2014 Sep 5;9(9):e107241. doi: 10.1371/journal.pone.0107241. PubMed PMID: 25191701; PubMed Central PMCID: PMC4156438.
15. O'Leary JC 3rd, Zhang B, Koren J 3rd, **Blair L**, Dickey CA. The role of FKBP5 in mood disorders: action of FKBP5 on steroid hormone receptors leads to questions about its evolutionary importance. **CNS Neurol Disord Drug Targets**. 2013 Dec;12(8):1157-62. Review. PubMed PMID: 24040820; PubMed Central PMCID: PMC4236834.
16. **Blair LJ**, Nordhues BA, Hill SE, Scaglione KM, O'Leary JC 3rd, Fontaine SN, Breydo L, Zhang B, Li P, Wang L, Cotman C, Paulson HL, Muschol M, Uversky VN, Klengel T, Binder EB, Kaye R, Golde TE, Berchtold N, Dickey CA. Accelerated neurodegeneration through chaperone-mediated oligomerization of tau. **J Clin Invest**. 2013 Oct;123(10):4158-69. doi: 10.1172/JCI69003. PubMed PMID: 23999428; PubMed Central PMCID: PMC3784538.
17. **Blair LJ**, Zhang B, Dickey CA. Potential synergy between tau aggregation inhibitors and tau chaperone modulators. **Alzheimers Res Ther**. 2013 Sep 16;5(5):41. doi: 10.1186/alzrt207. Review. PubMed PMID: 24041111; PubMed Central PMCID: PMC3979086.
18. Abisambra J, Jinwal UK, Miyata Y, Rogers J, **Blair L**, Li X, Seguin SP, Wang L, Jin Y, Bacon J, Brady S, Cockman M, Guidi C, Zhang J, Koren J, Young ZT, Atkins CA, Zhang B, Lawson LY, Weeber EJ, Brodsky JL, Gestwicki JE, Dickey CA. Allosteric heat shock protein 70 inhibitors rapidly rescue synaptic plasticity deficits by reducing aberrant tau. **Biol Psychiatry**. 2013 Sep 1;74(5):367-74. doi: 10.1016/j.biopsych.2013.02.027. PubMed PMID: 23607970; PubMed Central PMCID: PMC3740016.
19. Abisambra JF, Jinwal UK, **Blair LJ**, O'Leary JC 3rd, Li Q, Brady S, Wang L, Guidi CE, Zhang B, Nordhues BA, Cockman M, Suntharalingham A, Li P, Jin Y, Atkins CA, Dickey CA. Tau accumulation activates the unfolded protein response by impairing endoplasmic reticulum-associated degradation. **J Neurosci**. 2013 May 29;33(22):9498-507. doi: 10.1523/JNEUROSCI.5397-12.2013. PubMed PMID: 23719816; PubMed Central PMCID: PMC3733249.
20. Jinwal UK, Akoury E, Abisambra JF, O'Leary JC 3rd, Thompson AD, **Blair LJ**, Jin Y, Bacon J, Nordhues BA, Cockman M, Zhang J, Li P, Zhang B, Borysov S, Uversky VN, Biernat J, Mandelkow E, Gestwicki JE, Zweckstetter M, Dickey CA. Imbalance of Hsp70 family variants fosters tau accumulation. **FASEB J**. 2013 Apr;27(4):1450-9. doi: 10.1096/fj.12-220889. PubMed PMID: 23271055; PubMed Central PMCID: PMC3606536.
21. Suntharalingam A, Abisambra JF, O'Leary JC 3rd, Koren J 3rd, Zhang B, Joe MK, **Blair LJ**, Hill SE, Jinwal UK, Cockman M, Duerfeldt AS, Tomarev S, Blagg BS, Lieberman RL, Dickey CA. Glucose-regulated protein 94 triage of mutant myocilin through endoplasmic reticulum-associated degradation subverts a more efficient autophagic clearance mechanism. **J Biol Chem**. 2012 Nov 23;287(48):40661-9. doi: 10.1074/jbc.M112.384800. PubMed PMID: 23035116; PubMed Central PMCID: PMC3504779.
22. Koren J 3rd, Miyata Y, Kiray J, O'Leary JC 3rd, Nguyen L, Guo J, **Blair LJ**, Li X, Jinwal UK, Cheng JQ, Gestwicki JE, Dickey CA. Rhodacyanine derivative selectively targets cancer cells and overcomes

- tamoxifen resistance. *PLoS One*. 2012;7(4):e35566. doi: 10.1371/journal.pone.0035566. Erratum in: **PLoS One**. 2012;7(7). doi:10.1371/annotation/7493e5d2-4c1a-43eb-a83f-16814861ff13. Li, Xiokai [corrected to Li, Xiaokai]. PubMed PMID: 22563386; PubMed Central PMCID: PMC3338522.
23. Abisambra JF, Jinwal UK, Jones JR, **Blair LJ**, Koren J 3rd, Dickey CA. Exploiting the diversity of the heat-shock protein family for primary and secondary tauopathy therapeutics. **Curr Neuropharmacol**. 2011 Dec;9(4):623-31. doi: 10.2174/157015911798376226. PubMed PMID: 22654720; PubMed Central PMCID: PMC3263456.
 24. O'Leary JC 3rd, Dharia S, **Blair LJ**, Brady S, Johnson AG, Peters M, Cheung-Flynn J, Cox MB, de Erausquin G, Weeber EJ, Jinwal UK, Dickey CA. A new anti-depressive strategy for the elderly: ablation of FKBP5/FKBP51. **PLoS One**. 2011;6(9):e24840. doi: 10.1371/journal.pone.0024840. PubMed PMID: 21935478; PubMed Central PMCID: PMC3174203.
 25. Jones JR, Lebar MD, Jinwal UK, Abisambra JF, Koren J 3rd, **Blair L**, O'Leary JC, Davey Z, Trotter J, Johnson AG, Weeber E, Eckman CB, Baker BJ, Dickey CA. The diarylheptanoid (+)-aR,11S-myricanol and two flavones from bayberry (*Myrica cerifera*) destabilize the microtubule-associated protein tau. **J Nat Prod**. 2011 Jan 28;74(1):38-44. doi: 10.1021/np100572z. PubMed PMID: 21141876; PubMed Central PMCID: PMC3070757.
 26. O'Leary JC 3rd, Li Q, Marinec P, **Blair LJ**, Congdon EE, Johnson AG, Jinwal UK, Koren J 3rd, Jones JR, Kraft C, Peters M, Abisambra JF, Duff KE, Weeber EJ, Gestwicki JE, Dickey CA. Phenothiazine-mediated rescue of cognition in tau transgenic mice requires neuroprotection and reduced soluble tau burden. **Mol Neurodegener**. 2010 Nov 1;5:45. doi: 10.1186/1750-1326-5-45. PubMed PMID: 21040568; PubMed Central PMCID: PMC2989315.
 27. **Blair LJ***, Abisambra JF*, Hill SE, Jones JR, Kraft C, Rogers J, Koren J 3rd, Jinwal UK, Lawson L, Johnson AG, Wilcock D, O'Leary JC, Jansen-West K, Muschol M, Golde TE, Weeber EJ, Banko J, Dickey CA. Phosphorylation dynamics regulate Hsp27-mediated rescue of neuronal plasticity deficits in tau transgenic mice. **J Neurosci**. 2010 Nov 17;30(46):15374-82. doi: 10.1523/JNEUROSCI.3155-10.2010. PubMed PMID: 21084594; PubMed Central PMCID: PMC3073547.
 28. Lee DC, Rizer J, Selenica ML, Reid P, Kraft C, Johnson A, **Blair L**, Gordon MN, Dickey CA, Morgan D. LPS- induced inflammation exacerbates phospho-tau pathology in rTg4510 mice. **J Neuroinflammation**. 2010 Sep 16;7:56. doi: 10.1186/1742-2094-7-56. PubMed PMID: 20846376; PubMed Central PMCID: PMC2949628.
 29. Jinwal UK, O'Leary JC 3rd, Borysov SI, Jones JR, Li Q, Koren J 3rd, Abisambra JF, Vestal GD, Lawson LY, Johnson AG, **Blair LJ**, Jin Y, Miyata Y, Gestwicki JE, Dickey CA. Hsc70 rapidly engages tau after microtubule destabilization. **J Biol Chem**. 2010 May 28;285(22):16798-805. doi: 10.1074/jbc.M110.113753. PubMed PMID: 20308058; PubMed Central PMCID: PMC2878041.
 30. Jinwal UK, Koren J 3rd, Borysov SI, Schmid AB, Abisambra JF, **Blair LJ**, Johnson AG, Jones JR, Shults CL, O'Leary JC 3rd, Jin Y, Buchner J, Cox MB, Dickey CA. The Hsp90 cochaperone, FKBP51, increases Tau stability and polymerizes microtubules. **J Neurosci**. 2010 Jan 13;30(2):591-9. doi: 10.1523/JNEUROSCI.4815-09.2010. PubMed PMID: 20071522; PubMed Central PMCID: PMC2830818.
 31. Koren J 3rd, Jinwal UK, Jin Y, O'Leary J, Jones JR, Johnson AG, **Blair LJ**, Abisambra JF, Chang L, Miyata Y, Cheng AM, Guo J, Cheng JQ, Gestwicki JE, Dickey CA. Facilitating Akt clearance via manipulation of Hsp70 activity and levels. **J Biol Chem**. 2010 Jan 22;285(4):2498-505. doi: 10.1074/jbc.M109.057208. PubMed PMID: 19889640; PubMed Central PMCID: PMC2807306.

32. Koren J 3rd, Jinwal UK, Lee DC, Jones JR, Shults CL, Johnson AG, **Anderson LJ**, Dickey CA. Chaperone signalling complexes in Alzheimer's disease. **J Cell Mol Med**. 2009 Apr;13(4):619-30. Review. PubMed PMID: 19449461; PubMed Central PMCID: PMC2749087.
33. Dickey C, Kraft C, Jinwal U, Koren J, Johnson A, **Anderson L**, Lebson L, Lee D, Dickson D, de Silva R, Binder LI, Morgan D, Lewis J. Aging analysis reveals slowed tau turnover and enhanced stress response in a mouse model of tauopathy. **Am J Pathol**. 2009 Jan;174(1):228-38. doi: 10.2353/ajpath.2009.080764. PubMed PMID: 19074615; PubMed Central PMCID: PMC2631335.

Book Chapters

1. Baker JD, Webster JM, Shelton LB, Koren J 3rd, Uversky VN, **Blair LJ**, Dickey CA. "Neurodegenerative Diseases as Protein Folding Disorders." **The Molecular and Cellular Basis of Neurodegenerative Diseases 1st Edition**. Elsevier. 243-267. 2018 Mar 1.
2. Sun Z, Blackburn RJ, **Blair LJ**, Koren J 3rd. "Hsp70-Family Proteins and Neurodegenerative Diseases." **Heat Shock Protein 70 in Biology and Medicine**. Volume 12. Springer. In Press.

Oral Presentations and Select Posters

1. "Aha1 stimulates tau aggregation." **Florida Annual Meeting and Exposition (FAME)** organized by the Florida Local Section of the American Chemical Society. May 2018. Invited Symposium Speaker sponsored by FLACS.
2. "Molecular chaperones regulate the pathogenicity of tau in neurodegenerative disease." **University of South Florida**, Department of Cell Biology, Microbiology, and Molecular Biology. October 2017. Invited Seminar Speaker. (Host, Sandy Westerheide)
3. "Extracellular release of neurodegenerative proteins is regulated by DnaJC5/Hsc70 complexes." **International Society for Neurochemistry – Japanese Society for Neurochemistry Joint Symposium 2017**. Sendai, Japan. September 2017. Invited Symposium Speaker sponsored by ISN.
4. "Cyclophilin 40 untangles tau aggregates." **Protein Misfolding Diseases and Therapy 2017**. Sendai, Japan. September 2017. Invited Symposium Speaker.
5. "Hsp90 co-chaperones regulate tau aggregation and toxicity." **National Institute of Radiological Sciences**, Department of Functional Brain Imaging Research. Chiba, Japan. September 2017. Invited Seminar Speaker. (Host, Naruhiko Sahara)
6. "Aha1 Accelerates Hsp90 ATPase Activity to Drive Tau Aggregation." **Alzheimer's Association International Conference**. July 2017, London, United Kingdom. Invited Symposium.
7. "Controlling Tau Aggregate Structure and Toxicity with a Twist" **University of Texas Medical Branch**, Department of Neurology, Galveston, TX. February 2017. Invited Seminar Speaker. (Host, Rakez Kaye)
8. "High FKBP5 expression alters learning and memory." **Midwest Stress Response and Molecular Chaperone Meeting**. Northwestern University, Evanston, IL. January 2017. Poster.
9. "High FKBP5 expression alters learning and memory". **Society for Neuroscience**, November 2016. San Diego, CA, Invited Nanosymposia.

10. "Targeting of Chaperone Activity for the Treatment of Alzheimer's Disease." **Alzheimer's Association International Conference**. July 2016, Toronto, Canada. Invited Symposium.
11. "Generation of a novel mouse to model *FKBP5* expression in aging and disease." **Midwest Stress Response and Molecular Chaperone Meeting**. Northwestern University, Evanston, IL. January 2015. Poster.
12. "Epigenetic regulation of *FKBP5* expression in aging and disease." **Society for Neuroscience**, October 2014. Washington D.C., Nanosymposia.
13. "FKBP51 as a drug target for tauopathies." **USF Health Molecular Medicine Retreat**. March 2014, Tampa, FL. Invited speaker.
14. "Progressive FKBP51 increases make tau neurotoxic." **USF Molecular Medicine Department: Work In Progress Seminar Series**. November 2013, Tampa, FL. Invited speaker.
15. "The Hsp90 co-chaperone FKBP51 produces neurotoxic tau oligomers: implications for aging and Alzheimer's disease." **Alzheimer's Association International Conference**, June 2013. Boston, MA. Poster.
16. "Age dependent increases in FKBP5/FKBP51 alter tau processing by Hsp90." **EMBO: Biomembranes**, June 2013. Cargese, Corsica, France. Poster.
17. "Progressive FKBP51 increases make tau neurotoxic." **USF Health Seminar**, March 2013. Tampa, FL. Speech.
18. "FKBP51 accelerates Alzheimer's disease pathogenesis." **ASNTR**, April 2013. Clearwater, FL. Poster.
19. "*FKBP51/FKBP5 accelerates* Alzheimer's disease pathogenesis by slowing tau turnover and altering tau aggregate structure." **USF Health Research Day**, February 2013. Tampa, FL. Poster.
20. "FKBP51 Age-Dependently Affects Cellular Processing of Tau by Hsp90." **USF Health Neuroscience Research Day**, February 2012. Tampa, FL. Poster
21. "FKBP51 Age-Dependently Affects Cellular Processing of Tau by Hsp90." **Society for Neuroscience**, October 2012. New Orleans, LA. Invited Nanosymposia.
22. "*In Vivo* Administration of Heat Shock Protein 27 Improves Hippocampal Plasticity." **USF Health Research Day**. February 2010. Tampa, FL. Poster.
23. "In Vivo Administration of Heat Shock Protein 27 Variants; Implications for Tauopathies. **Society for Neuroscience**. October 2009. Chicago, IL. Invited Nanosymposia.
24. "The Effect of Hsp27 on Phosphorylated Tau." **Midwest Stress Response and Molecular Chaperone Meeting**. Northwestern University, Evanston, IL. Jan. 2009. Poster.
25. "Oligomeric Hsp27 Degrades Phosphorylated Tau." **USF Undergraduate Research Symposium**, University of South Florida, Tampa, FL. Mar. 2009. Poster.

Media Appearances and Interviews

5/7/18

14 October 2017. Interviewed for "USF neuroscientist probes how different states of tau drive brain cell damage." USF Health News. <https://hscweb3.hsc.usf.edu/blog/2017/10/14/usf-neuroscientist-probes-different-states-tau-may-drive-brain-cell-damage/>

25 Aug 2017. Interviewed by Gwenyth Dickey Zakaib for "Aha! Co-Conspirator Caught Misfolding." AlzForum. <http://www.alzforum.org/news/research-news/aha-co-conspirator-caught-misfolding>

21 Aug 2017. Research Featured in "AHA1 INHIBITION REDUCES TAU ACCUMULATION." BioCentry. <https://www.biocentury.com/bc-extra/preclinical-news/2017-08-21/aha1-inhibition-reduces-tau-accumulation>

30 June 2017. Research Featured in "This New Alzheimer's Discovery Could Be The Key To Future Treatments." Forbes. <https://www.forbes.com/sites/daviddisalvo/2017/06/30/researchers-may-have-just-found-the-key-to-future-alzheimers-treatments/#1738fd196d95>

28 June 2017. Contributed to "Human enzyme may be key to unraveling Alzheimer's disease." Medical News Today. <http://www.medicalnewstoday.com/articles/318138.php>

27 June 2017. Interview by Roni Dengler. "This human protein may unfurl toxic tangles in Alzheimer's disease." PBS NewsHour. <http://www.pbs.org/newshour/rundown/human-protein-may-unfurl-toxic-tangles-alzheimers-disease/>

27 June 2017. Interviewed for "Human enzyme can reduce neurotoxic amyloids in a mouse model of dementia." *ScienceDaily*. www.sciencedaily.com/releases/2017/06/170627142846.htm

27 June 2017. Contributed to "A human enzyme can reduce neurotoxic amyloids in a mouse model of dementia." EurekAlert. https://www.eurekalert.org/pub_releases/2017-06/p-ah062017.php

27 June 2017. Interviewed for "A human enzyme can reduce neurotoxic amyloids in mouse model of dementia." USF Health News. <https://hscweb3.hsc.usf.edu/blog/2017/06/27/human-enzyme-can-reduce-neurotoxic-amyloids-mouse-model-dementia/>

27 June 2017. Research Featured in "Enzyme unravels Alzheimer's protein in mice." Alzheimer's Research UK. <http://www.alzheimersresearchuk.org/enzyme-unravels-alzheimers-protein-mice/>

11 April 2017. Highlights from a round table discussion with Representative Kathy Castor. "Castor Protests NIH Funding Cuts." WUSF Health News Florida. <http://health.wusf.usf.edu/post/castor-protests-nih-funding-cuts#stream/0>

10 April 2017. Highlights from a round table discussion with Representative Kathy Castor. "U.S. Rep. Kathy Castor meets with USF Health Researchers to discuss importance of NIH-Funded research." USF Health News. <https://hscweb3.hsc.usf.edu/blog/2017/04/10/u-s-rep-kathy-castor-meets-usf-health-researchers-discuss-importance-nih-funded-research/>

Outreach Activities

- March 9, 2018 – J. W. Mitchell Field Trip to USF Health MCOM, Tampa FL
- January 20, 2018 – Winthrop Charter School Science Fair Judge, Brandon, FL
- November 16, 2017 – Great American Teach-in Winthrop Charter School, Brandon, FL
- February 24, 2017 – USF Health Research Day, Poster Judge, Tampa, FL
- November 19, 2015 – Great American Teach-in Winthrop Charter School, Brandon, FL

Institutional Committees

- 2018-Present USF Health Biomedical Sciences PhD Program Admission Committee
- 2017-Present USF Health Molecular Medicine Faculty Recruitment Committee

Review Committees

Grants Review:

- 2018 External Advisory Committee Member for NIH/DDNS Study Section (Spring)
- 2018 External Advisory Committee Member for NIH/ZRG1-MDCN-C-58 Study Section (Spring)
- 2018 External Grant Reviewer; Alzheimer's Association
- 2017 External Grant Reviewer; Alzheimer's Research UK
- 2017 USF Health Internal Grant Review

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Manuscripts: Acta Neuropathologica, Molecular Cell, Neurobiology of Aging, Scientific Reports, PLoS One, Frontiers, Journal of Alzheimer's Disease, Journal of Affective Disorders, Biomedicine & Pharmacotherapy, Neuroscience, EbioMedicine, World Journal of Biological Psychiatry, Biomolecular Concepts

Professional Memberships

2016-Present Member, Society for Neuroscience
2017 Member, ISTAART
2015 Postdoc Member, Society for Neuroscience.
2013 Student Member, ISTAART
2009-2014 Student Member, Society for Neuroscience

Awards

2017: Alzheimer's Association International Conference Travel Fellowship
2014: Best Poster Award: USF Molecular Medicine Retreat
2013: Alzheimer's Association International Conference Travel Fellowship
2013: American Society for Neural Therapy and Repair Travel Fellowship
2013: Best Poster Award: Phelps Travel Scholarship at USF Health Research Day
2012: Outstanding Poster Award and Scholarship for University of South Florida Neuroscience Research Symposium
2009: Student Government Travel Award
2009: 2nd Place Award and Scholarship for poster at the University of South Florida Undergraduate Research Symposium

Teaching/Training

- ❖ First-Year Medical Student Lectures:
 - BMS6818 "Cancer Biology" 2 hours of lecture/year
- ❖ Graduate Student Lectures:
 - BCH6727 "Molecular Basis of Disease" 6 hours of lecture/year
 - GMS7930 "Principles of Molecular Medicine" 2 hours of lecture/year
 - GMS7930 "Advanced Neuroscience" 2 hours of lecture/year
- ❖ Junior Faculty Mentored
 - J. Matt Webster 2016-Present
- ❖ Postdoctoral Fellows Mentored
 - Marangelie Criado-Marrero 2016-Present
 - Dali Zheng 2016-2017
 - Leonid Breydo 2016-2017
- ❖ Graduate Students Mentored:
 - PhD - Ilayda Ozsan 2017-Present
 - PhD - Jeremy Baker 2016-Present
 - PhD - Lindsey Shelton 2016-2018
 - MS - Lauren Gould 2017-Present
 - MS - Sheldon Lord 2017-Present
 - Master's Thesis
 - MS - Ricardo Cordova 2017
 - Master's Thesis, "Models and Therapeutic Strategies for Open Angle Glaucoma."
 - MS - Khalid Muhammad 2016-2017
 - Master's Independent study, "Molecular cloning and heterologous protein expression of BDNF and GDNF."
- ❖ Graduate Thesis Committees
 - PhD - April Darling 2017-Present
 - PhD - Meena Subbarayan 2017-Present
 - PhD - Nicole Avalon (Chair) 2016-Present

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- ❖ Undergraduate Trainees:
 - Yenchu Li
 - Mateo Hernandez
 - Nick Hernandez
 - Shelly Mittal
 - Wei Lou Tong (Honors Thesis)
 - Luis Mariusso
 - Tori Gotschall
 - Ashwini Goshwami
 - Emily Seitz (Honors Thesis)
 - Sarah Bijan
 - Lindsay Burch
 - Haley Frauen (Honors Thesis)
 - Lidice Hernandez
 - Arielle Zapata
 - Frank Zamudio
 - Bryce Montañe
 - Garrett Fitzpatrick
 - Leia Sullivan
 - Kaitlynn Kelly
 - Haily Radziseski
 - Aisha Remy
 - Sebastian Smith
 - Hannah Penny
- ❖ High School Student Trainees:
 - William Li