CURRICULUM VITAE

NAME AND CONTACT INFORMATION

Theresa CURRIER THOMAS, PhD
Center of Excellence for Aging and Brain Repair
Department of Neurosurgery, Brain & Spine
University of South Florida | Morsani College of Medicine
12901 Bruce B. Downs Boulevard, MDC-78
Tampa, Florida 33612

CHRONOLOGY OF EDUCATION

08/1994-05/1999	B.S., Agricultural Biotechnology, University of Kentucky, Lexington, Kentucky 40536; *cum laude*
08/1999-05/2003	Research Analyst – See 'employment'
05/2003-04/2008	Ph.D., University of Kentucky Chandler Medical Center, Department of Anatomy and Neurobiology, Lexington, Kentucky 40536
04/2008-06/2012	Postdoctoral Fellowship, University of Kentucky Chandler Medical Center, Spinal Cord & Brain Injury Research Center (SCoBIRC) at Lexington, Kentucky 40536

CHRONOLOGY OF EMPLOYMENT

7/2025-	Associate Professor, Center of Excellence for Aging and Brain Repair, Department of Neurosurgery, Brain & Spine, USF Morsani College of Medicine; Tampa, FL
9/2023-	Adjunct Associate Professor, College of Graduate Studies, Midwestern University; Glendale, AZ
7/2023-7/2025	Affiliate Faculty, Department of Translational Neurosciences, University of Arizona College of Medicine-Phoenix; Phoenix, AZ
06/2022-7/2025	Director, Translational Neurotrauma and Neurochemistry Research Lab; Department of Child Health at the University of Arizona College of Medicine–Phoenix; Phoenix, AZ
12/2019-7/2025	Associate Professor, Research Scholar Track Translational Neurotrauma Research Program; Department of Child Health at the University of Arizona College of Medicine–Phoenix; Phoenix, AZ
03/2019-7/2025	Associate Professor, Clinical Translational Sciences graduate program, University of Arizona Health Sciences; Phoenix, AZ
06/2014-7/2025	Assistant Professor, Scientist Track, Department of Neuroscience Research, Barrow Neurological Institute; Phoenix, Arizona
06/2012-7/2025	Research Investigator; Phoenix VA Health Care System; Phoenix, Arizona
10/2020-	Affiliate Faculty, Arizona State University; School of Life Sciences, Tempe, AZ
06/2012-12/2019	Assistant Professor, Research Scholar Track Translational Neurotrauma Research Program; Department of Child Health at the University of Arizona College of Medicine–Phoenix; Phoenix, AZ
08/1999-05/2003	Research Analyst in the Department of Anatomy and Neurobiology University of Kentucky, Lexington, KY

02/1999-07/1999	Research Assistant in the Department of Animal Sciences. University of Kentucky, Lexington, KY
01/1998 – 01/1999	Student Research Assistant at Kentucky Equine Research, Inc. Versailles, KY
08/1995 – 12/1997	Student Research Assistant in the Department of Horticulture. University of Kentucky, Lexington, KY

HONORS & AWARDS

2025	Secretary of the National Neurotrauma Society for 2025
2021	1st Annual Rosalind Franklin Award – National Neurotrauma Society – Recognition of a female researcher with a notable scientific contribution to the TBI field and impact from mentoring, outreach, and advocacy.
2020-2022	Elected: Director of Training, Education, and Mentorship (TEAM) for the National Neurotrauma Society. Serve as Chair of TEAM committee, member of Program and Membership committees, and represent TEAM as a member of the Executive Council.
2020-2023	Elected: Research Senate, University of Arizona College of Medicine-Phoenix
2012	Michael Goldberger Award of Excellence (1st place), 30th National Neurotrauma Society Symposium, Phoenix, AZ. July 2012
2012	Keystone Symposia Scholarship to travel to Clinical and Molecular Biology of Acute and Chronic Traumatic Encephalopathies, Keystone, CO. February 2012. NIH NINDS 1R13NS077709-01
2005-2007	Research Challenge Trust Fund Fellowship from the University of Kentucky

UNIVERSITY/COMMUNITY SERVICE

2025	MENTOR Institute Online and Synchronous Training – University of Arizona Employee Development, Growth & Engagement
2024-2025	American Society for Neural Therapy and Repair – Program Committee for 2025 Conference in Clearwater, FL
2024-present	National Neurotrauma Society – Executive Committee, Council, Program Committee, Membership Committee, Training Education and Mentorship Committee.
2024-2025	Member – Child Health Institute – Faculty Search Committee
2023-2024	Member - Department of Translational Neurosciences – Faculty Search Committee
2023-2025	Member – Phoenix Children's Medical Group - Research & Education Committee. Support clinical pediatric research oversight and professional education. Role includes junior faculty mentorship and fostering research collaboration between the University of Arizona College of Medicine – Phoenix and Phoenix Children's Hospital.
2023-2025	Founder and Co-Chair of the Department of Child Health Junior Physician-Scientist Mentor-Mentee Program. Designed and implemented a structured mentorship program

to support junior physician-scientists in building research networks and advancing their careers. Actively involved in program development, mentorship framework, and resource allocation to provide early-career researchers with essential training and collaborative opportunities. (Co-chair - Ashish Patel, MD)

2020-present Founder and Co-Chair – National Neurotrauma Society and Training Education and Mentorship Committee's Mentor:Mentee Program.
As of 2025 we've match 299 people across 96 institutions, 29 U.S. states, and 11 countries. Led strategic development to enhance mentorship, networking, and career advancement for career neurotrauma researchers regardless of level.

2018-2025 Women in Medicine and Science - UA College of Medicine-Phoenix – Member of Executive Board, Chair of Events (2018-2023)

2018-present Society for Neuroscience – National Neurotrauma Society Booth (promote NNS and membership advantages); San Diego, CA, Washington DC, Chicago, IL

2023 Member - Search Committee – Department of Child Health Sr. Business Manager

2023-present Investigator, Achieving Consensus Diagnostic Criteria for Post-Traumatic Hypopituitarism (PTHP) in Children using Modified Delphi Method.
National focus group chaired by Nico West, MD, PhD, University of Tennessee Health Science Center, Pediatric Critical Care Medicine Division
Goal: Establish standardized diagnostic and treatment guidelines for pediatric PTHP through consensus-based criteria, survey development, and algorithm refinement.
Role: Collaborate with a national network of clinical neuroendocrinologists to identify key knowledge gaps and preclinical research opportunities that inform diagnostic and therapeutic advancements.

2022 National Neurotrauma Society
Member - Training, Education and Mentorship (TEAM), Membership,
Member – Advocacy Committee
Chair - Mentor-Mentee Program
Representative, National Neurotrauma Society Membership Booth at Society for Neuroscience, San Diego, CA

2020-2023 Elected committee member - Research Senate, University of Arizona College of Medicine - Phoenix

2020-2022 National Neurotrauma Society Activities as Training, Education, and Mentorship (TEAM) Director, Chair of TEAM Committee with roles on Membership and Program Committees

- Started the NNS Mentor:Mentee program and continuing chair of the Mentor:Mentee subcommittee (2020-present)
- Co-planned two virtual Webinars in collaboration with the NIH on Grant Funding during COVID-10 and Professional development.
- Assisted with Membership Drive
- Assisted in launching "Ask an Expert' – Virtual Roundtable Discussions
- Organized and was a panelist for the Roundtable Discussion on *Sex as a Biological Variable* in neurotrauma research
- Organized Local Scholar activities for 2022
- Chair and Speaker for 2022 Conference: Neuroendocrine Dysregulation after Neurotrauma
- Chair and organizer of Neurotrauma training and mentorship pipeline programs and strategic workshop

– Managed the Training, Education, and Mentorship VISA application process.
– Led TEAM into a transition from an independent group to a official NNS committee with council representation.
– Assisted with the R13 NIH application for the symposium
– Program Planning Committee for the 2021 Conference (Virtual)

2022 Member - Faculty Search Committee, Director of the Child Health Institute

2022 Panelist - UACOMP Faculty Development Fellowship Program
Jennifer Hartmark-Hill 1/13/2022

2021 Application reviewer - CTS graduate student travel awards.

2021 Connect2Stem Volunteer, Women in Medicine and Science booth. University of Arizona College of Medicine-Phoenix. May 22nd

2021 Planning Committee: Women in Medicine and Science Virtual Spring Dinner. Guest Speaker – Susan Marguiles, PhD May 20th

2021 Co-host and chair of events subcommittee for the planning, execution, and participation: "*Even Serena Williams had a Coach: Embrace Media Training & Communicate Like a Pro"* Lectures and Role Play/Feedback. Supported through Women in Medicine and Science – Phoenix & the Office of Health Care Advancement. March 31st

2021 Host Faculty Development Book Club – "Radical Candor" by Kim Scott. Supported through Women in Medicine and Science – Phoenix & the Office of Health Care Advancement. April 22nd

2020 Co-host and chair of events subcommittee for the planning, execution, and participation in the Women in Medicine and Science's 3rd Annual Networking Event focused on memorable introductions: Keynote speakers Jacque Chadwick, MD, MS and Rhonda Bannard.

2020 Host Faculty Development Book Club – "Into the Magic Shop" by James Doty. Supported through Women in Medicine and Science – Phoenix & the Office of Health Care Advancement. October 16th.

2020 Co-host Faculty Development Book Club – "Never Split the Difference" by Chris Voss. Supported through Women in Medicine and Science – Phoenix & the Office of Health Care Advancement. August 20th

2020 Co-host Faculty Development Book Club – "A Woman of No Importance" by Sonia Purnell. Supported through Women in Medicine and Science – Phoenix & the Office of Health Care Advancement. June 23rd

2020 Co-host and chair of events subcommittee for the planning for the Women in Medicine and Science Virtual Spring Dinner. Leadership, Equity, and Resilience. Keynote Speaker, Phoenix Mayor, Kate Gallego – May 28th

2020 Co-host Faculty Development Book Club – "Moment of Lift" by Melinda Gates. Supported through Women in Medicine and Science – Phoenix & the Office of Health Care Advancement. April 9th

2019	Co-host Faculty Development Book Club – “Dare to Lead” by Brene Brown. Supported through Women in Medicine and Science – Phoenix & the Office of Health Care Advancement. August 20th
2019	Planning Committee for Women in Medicine and Science Spring Dinner – June 2019
2019	Organizer, Faculty Development Event – "Writing Outstanding Letters of Recommendation" Conceived and organized a faculty development event featuring Mary Frances Kuper, Andrea Romero, PhD, and Rebecca Tsosie, JD, focused on writing competitive, unbiased letters of recommendation for students, faculty, and mentors. The event included a 1-hour seminar, 1:1 meetings with speakers, a 1-hour workshop, and a leadership dinner with the Women in Medicine and Science (WIMS) executive committee. Supported through Women in Medicine and Science – Phoenix & the Office Health Care Advancement. April 9th, 2019
2019	TGEN Bioscience Leadership Academy – Interviewed finalists – March 30th, 2019
2019	Co-host Faculty Development Book Club – “The Autobiography of a Transgender Scientist” by Ben Barres. PhD. Supported through Women in Medicine and Science – Phoenix & the Office Health Care Advancement. March 28th, 2019
2019	Chair: Data Blitz I & II sessions. National Neurotrauma Symposium. Pittsburgh, PA. July 1st and 2nd 2019
2019	Co-host Faculty Development Book Club – “168 Hours: You have more time than you think” by Laura Vanderkam. Supported through Women in Medicine and Science – Phoenix & the Office of Health Care Advancement. January 17th, 2019
2019	National Neurotrauma Society’s Training, Education, and Mentoring (TEAM) planning committee – adjunct member and mentor
2017-2022	University of Arizona COM-PHX– Faculty Reviewer for MS2 Research Presentations
2015-2020	Phoenix Children’s Hospital – Emerging Leaders Program
2015-2016	Scottsdale Leadership – Project Lead It Forward Mentor and Alumni Engagement Committee, Scottsdale, AZ
2015-2016	Teddy Bear Fair, Phoenix Children’s Hospital, promoting health awareness and safety in children
2014	Chair: Open Communications Session I: TBI; 32nd Annual National Neurotrauma Symposium, San Francisco, CA. July 30th, 2014
2014	Co-chair (with Michelle LaPlaca, PhD): Research Design for Young Investigators Workshop. Sponsored by Women in Neurotrauma (WiNTR) and the Craig H. Neilsen Foundation.
2013-2023	Interviewer at UA College of Medicine - Phoenix Multiple Mini-Interviews for the incoming medical students
2013	Environmental Health & Safety; Subcommittee to the Research Senate – University of Arizona College of Medicine – Phoenix. (Paul E. Boehmer, Ph.D., Chair)

2013 All Campus Celebration Planning Committee – Awareness Education/Fundraising (Sheila Maddox, Event Coordinator)

2013 Sports Concussion Awareness Booth at the Annual Phoenix Biomedical Research Campus Celebration – Superbowl Theme. Short oral presentation, poster display, interactive egg demonstrations promoting helmet safety, informative handouts

SCHOLARLY WORK

H-Index: 27

Peer-Reviewed Publications

1. M. Esfandiarei, F. Anwar, M. Nuthi, A. Harrison, M.E. Barrameda, T.M. Curry-Koski, K. Pull, **T. Currier Thomas**, N.M. Jadavji. Apoptosis and Brain Derived Neurotrophic Factor are increased in cortical neurons of Marfan Syndrome mice. Preprint available on BioRxiv. Oct 17, 2024. PMID: 39464057 Peer-reviewed: *microPublication Biology*. 2025. 10.17912/micropub.biology.001651

2. R. Sheets, B. Rajaboina, C.E. Bromberg, L. Curtin, M.L. Haddock, P. Stafford, **T. Currier Thomas**, A.C. Scheck. Freezing diluted bovine serum albumin standards does not significantly affect standard curves. Preprint available on BioRxiv. Jun 26, 2024. doi: https://doi.org/10.1101/2024.06.26.600904. PMID: 38979386. Accepted in *BioTechniques* 04/30/2025

3. T. Curry-Koski, L. Curtin, M. Esfandiarei*, **T. Currier Thomas***. Cerebral Microvascular Density, Permeability of the Blood-Brain Barrier, and Neuroinflammatory Responses Indicate Early Aging Characteristics in a Marfan Syndrome Mouse Model. Preprint *BioRxiv* PMID: 39005441. *Front Physiol.* 2025 Jan 31;15:1457034. PMID: 39959812

4. Z. Sabetta, G. Krishna, T. Curry-Kosky, Mackenzie Lopez, P.D. Adelson, **T. Currier Thomas.** Sex-Dependent Temporal Changes in Astrocyte-Vessel Interactions Following Diffuse Traumatic Brain Injury in Rats. *Front Physiol.* 2024 Sep 25;15:1469073. PMID: 39387100

5. E. Abbasloo, S. Esmaeili-Mahani, F. Kobeissy, **T. Currier Thomas**. Evidence for the induction of analgesic cross-tolerance between opioid and apelin/APJ systems in male rats. *Stud Alcohol Drugs.* 2024 Mar 22. PMID: 38517751

6. S.M. Joshi, **T. Currier Thomas**, N.M. Jadavji. Impact of increasing one-carbon metabolites on traumatic brain injury (TBI) outcome using pre-clinical models. *Neural Regen Res*. 2024 Aug 1;19(8):1728-1733. PMID: 38103238

7. T. Curry, M.E. Barrameda, **T. Currier Thomas***, M. Esfandiarei*. In Vivo Phenotypic Vascular Dysfunction Extends Beyond the Aorta in a Mouse Model for Fibrillin-1 (FBN1) Mutation. *Sci Rep.* 2024 Mar 9;14(1):5779. PMID: 38461168; Preprint available on BioRxiv. PMID: 38014144; *denotes co-senior/corresponding author.

8. T. B. Jones, T. Mackey, A. Juba, K. Amin, A. Atyam, M. McDole, J. Yancy, **T.Currier Thomas***, L. M. Buhlman*. Traumatic brain injury in Drosophila melanogaster alters reactive oxygen and nitrogen species in a sex-dependent manner. *Exp Neurol.* 2024 Feb;372:114621. PMID: 38029809 *denotes co-senior/corresponding author

9. J.A. Beitchman*, G. Krishna*, C. Bromberg, **T.C. Thomas**. Effects of isoflurane and urethane anesthetics on glutamate neurotransmission in rat brain using *in vivo* amperometry. *BMC Neurosci.* 2023 Oct 10;24(1):52. PMID: 37817064; Preprint available on BioRxiv. PMID 36824899

10. E. Abbasloo, M. Khaksari, M. Sanjari, F. Kobeissy, **T. Currier Thomas**. Carvacrol decreases blood–brain barrier permeability post-diffuse traumatic brain injury in rats. *Sci Rep.* 2023 Sep 4;13(1):14546. PMID: 37666857

11. E. Abbasloo, M. K. Hadad, S. Amiresmaili, S. S. Pour, M. Sanjari, **T. Currier Thomas**. *Satureja khuzistanica Jamzad* essential oil and pure carvacrol attenuate TBI-induced inflammation and apoptosis via NF-κB and caspase-3 regulation in the male rat brain. *Sci Rep*. 2023 Mar 23;13(1):4780. PMID: 36959464

12. Z. Sabetta^, G. Krishna^, T. Curry, P.D. Adelson, **T.C. Thomas**. Aging with TBI vs. Aging: 6-month temporal profiles for neuropathology and astrocyte activation converge in behaviorally relevant thalamocortical circuitry of male and female rats. Preprint available on BioRxiv. doi: https://doi.org/10.1101/2023.02.06.527058. 2023. PMID 36798182

13. T. Curry, M. Esfandiarei, **T. Currier Thomas**, R.G. Rastogi. Case Report: Lingering post-concussive symptoms in a pediatric patient with presumed Ehlers-Danlos Syndrome. *Frontiers in Pediatrics*; 2022 Nov 4;10:937223. PMID: 36405827

14. M. Goutnik, J. Goeckeritz, Z. Sabetta. T. Curry, M. Willman, J. Willman, **T. Currier Thomas**, B. Lucke-Wold. Neurotrauma Prevention Review: Improving Helmet Design and Implementation. *Biomechanics (Basel).* 2022 Sept 23;2(4):500-512. PMID: 36185779

15. **T.C. Thomas,** C.E. Bromberg, G. Krishna. Female sex in experimental traumatic brain injury research: Forging a path forward. *Neural Regen Res.* 2022 Mar;17(3):550-552. Available Online. PMID: 34380885

16. L. Buhlman^*, G. Krishna*, B. Jones*, **T. Currier Thomas^***. Insights into secondary injury cascades after diffuse traumatic brain injury in *Drosophila*. Review. *Biomed Pharmacother.* 2021 Aug 27;142:112079. Available Online. PMID:34463269
*co-corresponding authors; *Equal contribution.

17. E. Abbasloo, F. Abdollahi, A. Saberi, S. Esmaeili-Mahani, A Kaeidi, F. Akhlaghinasab, V. Sheibani, **T. Currier Thomas,** F.H. Kobeissy, S. Oryan. Involvement of T-Type calcium channels in the mechanism of low-dose morphine hyperalgesia in adult male rats. *Neuropeptides.* 2021 Dec;90:102185. Available Online. PMID: 34419803

18. J.A. Beitchman, J. Lifshitz, N.G. Harris, **T.C. Thomas**, A.D. Lafrenaye, A. Hånell, C.E. Dixon, J.T. Povlishock, R.K. Rowe. Spatial distribution of neuropathology and neuroinflammation elucidate the biomechanics of fluid percussion injury. *Neurotrauma Reports.* 2021 Jan. 59-75. PMCID: PMC8240834; PMID: 34223546

19. A.S. Sukhina, O.J. Oatman, K.S. Lewis, **T.C. Thomas,** D. Brown, R.K. Rowe, P.D. Adelson, J. Lifshitz. Failure to thrive in a 15 month-old with a history of head trauma. *Pediatr Rev*. 2021 Jan; 42(Suppl 1): S55-S59. PMID: 33386363

20. R.K. Rowe, B. Ortiz, **T.C. Thomas**. Mild and moderate traumatic brain injury and repeated stress affect corticosterone in the rat. *Neurotrauma Reports.* 2020 Oct. 113-124. PMCID: PMC8240883; PMID: 34223536

21. C.E. Bromberg*, A.M. Condon*, S.W. Ridgway, P.C. Garcia-Filion, G. Krishna, P.D Adelson, R.K. Rowe, **T. Currier Thomas***. Sex-dependent pathology in the HPA axis at a sub-acute period after experimental traumatic brain injury. *Frontiers Neurol.* 2020 Sept 30;11:946. PMCID: 7554641, PMID: 33101162
*denotes equal contribution to manuscript preparation, data collection, and data interpretation.

22. G. Krishna, C. Bromberg, E. Connell, C. Hu, E. Mian, J. Lifshitz, P.D. Adelson, **T. Currier Thomas**. Traumatic brain injury-induced sex-dependent changes in late-onset sensory hypersensitivity and glutamate neurotransmission. *Frontiers Neurol.* 2020 Aug 5;11:749, PMCID: PMC7419702 , PMID: 32849211

23. J.A. Beitchman, D.R. Griffiths, Y. Hur, S.B. Ogle, C.E. Bromberg, H.W. Morrison, J. Lifshitz, P.D. Adelson, **T.C. Thomas**. Experimental traumatic brain injury induces chronic glutamatergic dysfunction in amygdala circuitry known to regulate anxiety-like behavior. *Frontiers in Neuroscience.* 2020 Jan 21;13:1434. PMID: 32038140

24. G. Krishna*, J.A. Beitchman*, C.E. Bromberg, **T.C. Thomas**. Approaches to monitor circuit disruption after traumatic brain injury: Frontiers in preclinical research. Review. *Int J Mol Sci.* 2020 Jan 16;21(2). PMID: 31963314
*denotes equal contribution to manuscript preparation, data collection and data interpretation.

25. **T.C. Thomas**, A. Romero, M.F. Kuper. Perspectives and Practical Advice About Writing Your Own Letter of Recommendation. *MedEdPublish.* 2020 Feb 27;9:37. PMID: 38058942

26. P.B. de la Tremblaye, D.A. O'Neil, M.J. LaPorte, J.P. Cheng, J.A. Beitchman, **T.C. Thomas,** C.O. Bondi, A.E. Kline. Elucidating opportunities and pitfalls in the treatment of experimental traumatic brain injury to optimize and facilitate clinical translation. *Neurosci Biobehav Rev*. 2018 Jan *85*:160-175. PMID: 28576511

27. **T.C. Thomas,** S.B. Ogle, B.M. Rumney, H.G. May, P.D. Adelson, J. Lifshitz. Does time heal all wounds? Experimental diffuse traumatic brain injury results in persisting histopathology in the thalamus. *Behav Brain Res*. 2018 Jan; 340:137-146. PMID: 28042008

28. **T.C. Thomas***, E.M. Stockhausen*, M.L. Law, A. Khodadad, J. Lifshitz. Rehabilitation Modality and Onset Differentially Influence Whisker Sensory Hypersensitivity after Diffuse Traumatic Brain Injury in the Rat. *Restor Neurol Neurosci.* 2017 Oct 9. PMID: 29036852
*denotes equal contribution to manuscript preparation, data collection and data interpretation.

29. **T.C. Thomas**, J.A. Beitchman, F. Pomerleau, T. Noel, P. Jungsuwadee, D.A. Butterfield, D.K. St. Clair, M.E. Vore, G.A. Gerhardt. Acute treatment with doxorubicin affects glutamate neurotransmission in the mouse frontal cortex and hippocampus. *Brain Res*. 2017 Oct 1;1692:10-17. PMID: 28705715

30. A.N. Hoffman, P.R. Paode, H.G. May, J.B. Ortiz, S. Kemmou, J. Lifshitz, C.D. Conrad, **T.C. Thomas**. Early and Persistent Dendritic Hypertrophy in the Basolateral Amygdala Following a Single Diffuse Traumatic Brain Injury. *J Neurotrauma* 2017 Jan1;34(1):213-219. PMID: 27306143

31. R.K. Rowe, B.M. Rumney, H.G. May, P.D. Adelson, S.M. Harman, P. Permana, L. Lifshitz, **T.C. Thomas.** Diffuse traumatic brain injury affects chronic corticosterone function in the rat. *Endocrine Connections*. 2016 Jul; 5(4):152-66. PMID: 27317610

32. J. Lifshitz, R.K. Rowe, D.R. Griffiths, M.N. Evilsizor, **T.C. Thomas**, P.D. Adelson, T.K. McIntosh. Clinical relevance of midline fluid percussion brain injury: acute deficits evolve into chronic morbidities tracked by biomarkers. *Brain Inj*. 2016 Aug 30(11):1293-1301. PMID: 27712117

33. Khodadad, P.D. Adelson, J. Lifshitz, **T.C. Thomas**. The time course of activity-regulated cytoskeletal (ARC) gene and protein expression in the whisker-barrel circuit using two paradigms of whisker stimulation. *Behav Brain Res*. 2015 May 1; 284:249-56. PMID: 25682931

34. E. Casella*, **T.C. Thomas*,** D.L. Vanino, W. Fellows-Mayle, J. Lifshitz, J.P. Card, P.D. Adelson. Traumatic brain injury alters long-term hippocampal neuron morphology in juvenile, but not immature, rats. *Childs Nerv Syst*. 2014 Aug; 30(8):1333-42. PMID: 24881033
*denotes equal contribution to manuscript preparation, data collection, and data interpretation.

35. J.D. Bell, **T.C. Thomas,** E.H. Lass, J. Ai, H. Wan, J. Lifshitz, A.J. Baker, R.L. Macdonald. Platelet-mediated changes in neuronal glutamate receptor expression at sites of micro thrombosis following experimental subarachnoid hemorrhage. *J Neurosurg*. 2014. PMID: 24745710

36. R.K. Rowe, J.L. Harrison, **T.C. Thomas**, J.R. Pauly, P.D. Adelson, J. Lifshitz. Using anesthetics and analgesics in experimental traumatic brain injury. *Lab Animal.* 2013. PMID: 23877609

37. T. Cao, **T.C. Thomas**, J.M. Ziebell, J.R. Pauly, J. Lifshitz. The morphological and genetic activation of microglia after diffuse traumatic brain injury in the rat. *Neuroscience*. 2012 Dec;225:65-75. PMID: 22960311

38. J.M. Hinzman, **T.C. Thomas**, J.E. Quintero, G.A. Gerhardt, J. Lifshitz. Disruptions in the Regulation of Extracellular Glutamate by Neurons and Glia in the Rat Striatum Two Days after Diffuse Brain Injury. *J. Neurotrauma.* 2012 Apr 10;29(6):1197-208. PMID: 22233432

39. D. van Bregt, **T.C. Thomas**, J.M. Hinzman, T. Cao, G.A. Gerhardt, J.R. Pauly, J. Lifshitz. Substantia nigra vulnerability after a single moderate diffuse brain injury in the rat. *Exp Neurol.* 2012 Mar;234(1):8-19. PMID: 22178300

40. **T.C. Thomas**, J.M. Hinzman, G.A. Gerhardt, J. Lifshitz. Hypersensitive glutamate signaling correlates with the development of late-onset behavioral morbidity in diffuse brain-injured circuitry. *J Neurotrauma*. 2012 Jan;29(2):187-200. PMID: 21939393

41. J.M. Hinzman, **T.C. Thomas**, J.J. Burmeister, J.E. Quintero, P. Huettl, F. Pomerleau, G.A. Gerhardt, J. Lifshitz. Diffuse Brain Injury Elevates Tonic Glutamate Levels and Potassium-Evoked Glutamate Release in Discrete Brain Regions at Two Days Post-Injury: an Enzyme-Based Microelectrode Array Study. J. *Neurotrauma.* 2010 May;27(5):889-99. PMID: 20233041

42. **T.C. Thomas**, D.K. Grandy, G.A. Gerhardt, P.E.A. Glaser. Decreased Dopamine D4 Receptor Expression Increases Extracellular Glutamate and Alters Its Regulation in Mouse Striatum. *Neuropsychopharmacology.* 2009 Jan;34(2):436-45. PMID: 18536704

43. **T.C. Thomas**, P.J. Kruzich, B.M. Joyce, K. Suchland, S.P. Surgener, E.C. Rutherford, D.K. Grandy, G.A. Gerhardt, P.E.A. Glaser. Dopamine D4 receptor knockout mice exhibit neurochemical changes consistent with decreased dopamine release. *J Neurosci Methods.* 2007 Nov 30;166(2):306-314. PMID: 17449106

44. P.E.A. Glaser, **T.C. Thomas**, B.M. Joyce, F.X. Castellanos, G.A. Gerhardt. Differential effects of amphetamine isomers on dopamine release in the rat striatum and nucleus accumbens core. *Psychopharmacology* (Berl). 2005 Mar;178(2-3):250-8. PMID: 15719230

45. M.F. Salvatore, J. Zhang, D.M. Large, P.E. Wilson, C.R. Gash, **T.C**. **Thomas,** J.W. Haycock, G. Bing, J.A. Stanford, D.M. Gash, G.A. Gerhardt. Striatal GDNF administration increases tyrosine hydroxylase phosphorylation in the rat striatum and substantia nigra. *J Neurochem*. 2004 Jul;90(1):245-54. PMID: 15198683

46. M.S. Purdom, J.A. Stanford, **T.D. Currier,** G.A. Gerhardt. Microdialysis studies of D-amphetamine-evoked striatal dopamine overflow in young versus aged F344 rats: effects of concentration and order of administration. *Brain Res*. 2003 Jul 25;979(1-2):203-9. PMID: 12850587

47. J.A. Stanford, **T.D. Currier,** G.A. Gerhardt. Acute locomotor effects of fluoxetine, sertraline, and nomifensine in young versus aged Fischer 344 rats. *Pharmacol Biochem Behav*. 2002 Jan-Feb;71(1-2):325-32. PMID: 11812540

48. J.A. Stanford, **T.D. Currier,** M.S. Purdom, G.A. Gerhardt. Nomifensine reveals age-related changes in K(+)-evoked striatal DA overflow in F344 rats. *Neurobiol Aging*. 2001 May-Jun;22(3):495-502. PMID: 11378257

49. J.D. Pagan, P. Karnezos, M.A.P. Kennedy, **T. Currier**, K.E. Hoekstra. Effect of Selenium source on selenium digestibility and retention in exercised Thoroughbreds. *Proc. Equine Nutr. Physiol. Soci.* 1999. 135-140. PDF

Manuscripts Under Review or In Preparation

1. M. Haddock, G. Krishan, K. Yuen, **T. Currier Thomas**. Growth Hormone Deficiency after Traumatic Brain Injury: Current Insights and the Need for Preclinical Modeling. Under Review in Special Issue on TBI-induced Hypopituitarism in *Growth Hormone and IGF-1 Research*. 4/1/2025

2. T. Curry, M. Esfandiarei, **T. Currier Thomas**. Neurovascular and Neurological Manifestations in Heritable Connective Tissue Disorders. Review.

3. B. Rajaboina, G. Krishna, E. Mian, C.E. Bromberg, J. Baun, C. Zurhellen, P.D. Adelson, **T. Currier Thomas**. Aging with Traumatic Brain Injury: Evaluation of neuropathology, axonal injury, neuroinflammation, autophagy, and pTau pathology in the dentate gyrus at 6-months post-injury in males and females.

4. S. Danoff, C. Sanghadia, Z. Sabetta, L.P. Curtin, P.D. Adelson, **T. Currier Thomas**. Age- and Aging-with-Injury-Related Temporal Microglial Morphological Profiles Indicate Unique Pathological Processes in Behaviorally Relevant Circuit Relays.

5. T. Curry, L. Curtin, M. Esfandiarei*, **T. Currier Thomas*.** Permeability of the Blood-Brain Barrier, Neuroinflammatory Responses, and Neurobehavioral Alterations After Acute Mild Traumatic Brain Injury in a Marfan Syndrome Mouse Model.

Book Chapters and Non-Peer-Reviewed Publications

1. L.P. Curtin. The role of transforming growth factor-β in murine dura structure and glutamatergic neurotransmission. Master's Thesis. 2023. Mentor: **T. C. Thomas**

2. M. Haddock. Evaluation of a midline fluid percussion injury model for evidence of sex-dependent growth hormone deficiency. Master's Thesis. 2023. *Mentor: **T. C. Thomas***

3. M.E. Barrameda. Measurements of Cerebrovascular Blood Flow Velocity in a Mouse Model of Marfan Syndrome. Master's Thesis. 2023. *Co-Mentor: **T. C. Thomas***

4. T. Curry. Fibrillin-1 Mutation Promotes Cerebrovascular Aging, Neuropathology, and Vulnerability to Traumatic Brain Injury in Mice. PhD Dissertation. 2024. *Mentor: **T. C. Thomas***

5. T. Mackey. Traumatic Brain Injury Associated with Climbing Deficits and Decreases Nitric Oxide Synthase Expression in Drosophila melanogaster. Master's Thesis. 2022. *Co-mentor: **T. C. Thomas***

6. G. Krishna, C.E. Bromberg, **T.C. Thomas**. Circuit reorganization after diffuse axonal injury: Utility of the whisker barrel circuit (Chapter 23). In: Cellular, Molecular, Physiological, and Behavioral Aspects of Traumatic Brain Injury: The Neuroscience of Traumatic Brain Injury *(pp. 281-292).* R. Rajendram, V.

Preedy, C. Martin (Eds). San Diego: Academic Press. doi.org/10.1016/B978-0-12-823036-7.00020-7. 2022

7. A. Satinsky. Glucocorticoid Receptor (GR) and Neuropathology in the Amygdala: Linking the Potential Roles of GR in Chronic Outcomes Post-Traumatic Brain Injury. Master's Thesis. ProQuest Dissertations Publishing, 2022. 29210137. Mentor: **T. C. Thomas**

8. J.A. Beitchman, J. Lifshitz, N.G. Harris, **T.C. Thomas**, A.D. Lafrenaye, A. Hånell, C.E. Dixon, J.T. Povlishock, R.K. Rowe. Spatial distribution of neuropathology and neuroinflammation elucidate the biomechanics of fluid percussion injury. bioRχiv https://www.biorxiv.org/content/10.1101/2020.10.05.325514v1.full. 2020

9. S. W. Ridgway. Diffuse Brain Injury Incites Sex Differences and Hypothalamic-Pituitary-Adrenal Axis Disruptions. Master's Thesis. ProQuest Dissertations Publishing, 2019. 22588132. *Mentor:* ***T. C. Thomas***

10. **T.C. Thomas**, M.F. Kuper. Writing your own letter of recommendation: The Goldilocks Dilemma – Getting is Just Right. National Neurotrauma Society's Annual Newsletter. June 2019

11. J.A. Beitchman, D.R. Griffiths, Y. Hur, S.B. Ogle, C.E. Bromberg, H.W. Morrison, J. Lifshitz, P.D. Adelson, **T.C. Thomas**. Diffuse TBI-induced expression of anxiety-like behavior coincides with altered glutamatergic function, TrkB protein levels and region-dependent pathophysiology in amygdala circuitry. *bioRχiv* https://doi.org/10.1101/640078. 2019.

12. J.A. Beitchman. Amygdala circuit dysfunction coincides with late-onset traumatic brain-injury induced affective symptoms. Master's Thesis. Midwestern University, 2017. *Mentor:* ***T. C. Thomas***

13. E.W. Vogel III, B. Morrison III, M.N. Evilsizor, D.R. Griffiths, **T.C. Thomas**, J. Lifshitz, R.L. Sutton, J.B. Long, D. Ritzel, G.S.F. Ling, J. Huh, R. Raghupathi, T.K. McIntosh. Experimental models of TBI: Clinical Relevance and Shortcomings (Chapter 4), in: Cellular Therapy for Neurological Injury. Cox (Editor). CRC Press/Taylor & Francis Group, Boca Raton. ISBN 9781032179544. https://doi.org/10.1201/b19533. 2017.

14. S. Ogle. Re-expression of thrombospondin-1 in the thalamocortical whisker circuit after experimental diffuse traumatic brain injury: potential role in mediating synaptogenesis? ProQuest Dissertations Publishing, 2016. 10119108. *Mentor:* ***T.C. Thomas***

15. **T.C. Thomas**, T. Colburn, K.E. Korp, A. Khodadad, J. Lifshitz. Translational Considerations for Behavioral Impairment and Rehabilitation Strategies after Diffuse Traumatic Brain Injury (Chapter 36), In: Brain Neurotrauma: Molecular, Neuropsychological and Rehabilitation Aspects in Brain Injury Models. Firas H. Kobeissy (Editor). CRC Press/Taylor & Francis Group, Boca Raton. ISBN 9781466565982. 2015. PMID: 26269926

16. E.M. Miller, **T.C. Thomas**, G.A. Gerhardt, P.E.A. Glaser. Dopamine and Glutamate Interactions in ADHD: Implications for the Future Neuropharmacology of ADHD (Chapter 6). In: Attention Deficit Hyperactivity Disorder in Children and Adolescents. Somnath Banerjee (Editor). InTech. http://dx.doi.org/10.5772/50252. 2013.

17. D. van Bregt, **T.C. Thomas**, R.K. Rowe, J. Lifshitz. Morphological Assessments of Traumatic Brain Injury (chapter 26), In: Animal Models of Acute Neurological Injuries II: Injury and Mechanistic Assessments. Jun Chen, Zao C.Xu, Xiao-Ming Xu, and John H. Zheng (Editors.) Humana Press; Springer Science + Business Media, LLC. New York, NY. 2012:257-262. http://dx.doi.org/10.1007/978-1-61779-576-3

18. T.C. Thomas. Neurochemical investigations in transgenic mice, implications for attention-deficit/hyperactivity disorder. PhD Thesis. ProQuest Dissertations Publishing, 2008. 3310469.

Media

2023 Translational Neurotrauma Research Program
2022 Concussions During Adolescence Can Increase the Risk for Late-Onset Symptoms and Age-Related Neurodegenerative Diseases, with Emerging Evidence of Sex Differences. Barrow Neurological Institute at Phoenix Children's Hospital Innovations Report.
2022 Expert Insights: How do we study traumatic brain injuries?
2021 Meet the Innovators Shaping the Future of Pediatric Medicine
2021 Dr. Theresa Currier Thomas Honored for TBI Research. *Health Science Connect*
2020 Press Release: Study Confirms Sex-Differences in Neuroscience and Long-Term Outcomes Following Concussion

Published Abstracts

*denotes award or recognition

1. **T. Currier Thomas**, C. Bromberg, T. Curry-Koski, Z. Sabetta, L. Curtin, P.D. Adelson, G. Krishna. Early Rehabilitation Attenuates Late-Onset Symptoms and Restores Circuit Function in a Preclinical Traumatic Brain Injury Model. **American Society for Neural Therapy and Repair**. Clearwater, Florida. April 2025. ASNTR 2025 Meeting Abstracts. *Cell Transplantation*. 2025;34. doi:10.1177/09636897251326148

2. J. Venegas, C. Bromberg, **T. Currier Thomas**. Utilizing the Barnes Maze to Asses Cognitive Flexibility after Early Interventions with Gabapentin in Male Rats with Traumatic Brain Injury. **American Society for Neural Therapy and Repair**. Clearwater, Florida. April 2025. ASNTR 2025 Meeting Abstracts. *Cell Transplantation*. 2025;34. doi:10.1177/09636897251326148

3. L.P. Curtin, T. Curry Koski, C.E. Bromberg, G. Krishna, Z. Sabetta, M. Esfandiarei, **T.C. Thomas**. Impact of FbnC1041G/- Mutation on Chronic TGF-β Signaling and Glutamate Neurotransmission in the Hippocampus: Insights from a Marfan Syndrome Model. **Society for Neuroscience**, 2024, Chicago, IL.

4. T. Curry, L. Curtin, M.E. Barrameda, C.E. Bromberg, G. Krishna, Z. Sabetta, M. Esfandiarei & **T.C. Thomas.** Systemic transforming growth factor-β promotes neuropathology and vulnerability to traumatic brain injury in mice. **41st Annual National Neurotrauma Symposium**, a joint meeting of the National Neurotrauma Society and the AANS/CNS Joint Section on Neurotrauma & Critical Care, June 2024, San Francisco, CA.

5. M. Nuthi, A. Harrison, M.E. Barrameda, T. Curry, F. Anwar, **T.C. Thomas,** M. Esfandiarei, N. M. Jadavji. Apoptosis is increased in cortical neurons of female Marfan Syndrome mice. Kenneth A Suarez Research Day. April 2024. Glendale, AZ.

6. M. Esfandiarei, T. Curry, B. Gusek, E. Barrameda, C. Priday, **T. C. Thomas.** Sex Differences in Marfan Syndrome-Associated Aortic Root Aneurysm Progression: A Model for Premature Vascular Aging. **Organization for the Study of Sex Differences Annual Conference** May 2024. Bergen, Norway. [Invited Session Presentation]

7. T. Curry, L. Curtin, M.E. Barrameda, C. Bromberg, G. Krishna, Z. Sabetta, **T.C. Thomas*,** M. Esfandiarei*. Cerebrovascular dysfunction in a mouse model of Marfan syndrome: increased vulnerability to neuropathology & mild traumatic brain injury. **American Physiological Society Conference**. April 2024. Longbeach, CA.

8. R. Cheung, S. Naguib, C. Hair, **T.C. Thomas**, T.R. Rex. Evidence of retinal inflammation following fluid percussion-induced brain injury in rats. **The Association for Research in Vision and Ophthalmology**, April 2023, New Orleans, LA.

9. T. Curry, M.E. Barrameda, L. Curtin, C.E. Bromberg, G. Krishna, Z. Sabetta, M. Esfandiarei & **T.C. Thomas**. Sex-dependent Accelerated Cerebrovascular Aging and Vulnerability to Traumatic Brain Injury in a Fibrillin-1 Mutated Mouse Model. **40th Annual National Neurotrauma Symposium**, a joint meeting of the National Neurotrauma Society and the AANS/CNS Joint Section on Neurotrauma & Critical Care, 2023, Austin, TX

10. G. Krishna, C.E. Bromberg, T. Curry, Z. Sabetta, P.D. Adelson, **T.C. Thomas**. Early circuit-directed rehabilitation reduced severity of late-onset symptoms and corresponding neurotransmission after diffuse traumatic brain injury in rat. **40th Annual National Neurotrauma Symposium**, a joint meeting of the National Neurotrauma Society and the AANS/CNS Joint Section on Neurotrauma & Critical Care, 2023, Austin, TX.

11. M.L. Haddock, G. Krishna, K.C.J. Yuen, **T.C. Thomas**. Sex-dependent chronic growth hormone dysregulation after experimental diffuse traumatic brain injury in rats. **40th Annual National Neurotrauma Symposium**, a joint meeting of the National Neurotrauma Society and the AANS/CNS Joint Section on Neurotrauma & Critical Care, 2023, Austin, TX.

12. L.P. Curtin, C.E. Bromberg, G. Krishna, Z. Sabetta, T. Curry, **T.C. Thomas**. Transforming growth factor-β elicits extracellular glutamate overflow in the lateral hippocampus in mice; a novel mechanism for TGF-beta to mediate neurological deficits. **American Physiology Summit**, 2023, Long Beach, CA.

13. T. Curry, M.E. Barrameda, L. Curtin, C.E. Bromberg, G. Krishna, Z. Sabetta, **T.C. Thomas**, M. Esfandiarei. Sex-dependent Cerebrovascular Aging and Vulnerability to Traumatic Brain Injury in a Transgenic Mouse Model of a Fibrillin-1 Associated Connective Tissue Disorder. **American Physiology Summit**, 2023, Long Beach, CA.

14. C.E. Bromberg, A. Satinsky, E. Mian, G. Krishna, P.D. Adelson, T. Currier Thomas. Traumatic Brain Injury Induces Chronic Hypothalamic-Pituitary-Adrenal Axis Dysregulation in Male and Female Rats. **Society for Neuroscience**. San Diego, CA. Nov 12-16, 2022

15. T. Curry, M.E. Barrameda, C.E. Bromberg, M. Saber, R.K. Rowe, R.J. Gonzales, M. Esfandiarei, **T. Currier Thomas**. The fibrillin-1 mutation presents accelerated cerebrovascular aging and vulnerability to mild traumatic brain injury. **Society for Neuroscience**. San Diego, CA. Nov 12-16, 2022

16. T. Curry, M.E. Barrameda, C.E. Bromberg, M. Saber, R.K. Rowe, R.J. Gonzales, M. Esfandiarei, **T. Currier Thomas**. Fibrillin-1 mutation accelerates cerebrovascular aging and increases neurovascular vulnerability to mild traumatic brain injury. **39th Annual National Neurotrauma Symposium**. June 2022. J Neurotrauma 39 (11-12), A5-6.
    ***Top 40 abstract & data blitz*

17. C. Sanghadia, Z. Sabetta, B. Rajaboina, P.D. Adelson, **T. Currier Thomas**. Age- and Aging-with-injury-related temporal microglial morphological profiles indicate unique pathological processes in behaviorally relevant circuit relays. **39th Annual National Neurotrauma Symposium**. June 2022. J Neurotrauma 39 (11-12), A5.
    ***Top 40 abstract & data blitz*

18. E. Abbasloo, M. Khaksari, F. Kobbeisy, **T. Currier Thomas**. Carvacrol decreases blood-brain barrier permeability after diffuse traumatic brain injury in rats. **39th Annual National Neurotrauma Symposium**. June 2022. J Neurotrauma 39 (11-12), A8.
    ***Top 40 abstract & data blitz*

19. B. Rajaboina, E. Mian, G. Krishna, C. Bromberg, J Baun, C. Zurhellen, P.D. Adelson, **T. Currier Thomas.** Aging with traumatic brain injury: evaluation of neuropathology, axonal injury,

neuroinflammation, autophagy, and pTau pathology in the dentate gyrus at 6-months post-injury. **39th Annual National Neurotrauma Symposium**. June 2022. J Neurotrauma 39 (11-12), A32-33.

20. Z. Sabetta, G. Krishna, A. Willyerd, T. Curry, P.D. Adelson, **T. Currier Thomas**. Deconstructing the blood-brain barrier: Evaluation of cortical astrocyte changes surrounding microvasculature post-TBI. **39th Annual National Neurotrauma Symposium**. June 2022. J Neurotrauma 39 (11-12), A26.

21. G. Krishna, C. Bromberg, M. Herbst-Kralovetz, **T. Currier Thomas**. What's sex got to do with it? Impact of sham procedures and traumatic brain injury on chronic gut microtota dysbiosis and affective behaviors. **39th Annual National Neurotrauma Symposium**. June 2022. J Neurotrauma 39 (11-12), A25-26.

22. T. Curry, M.E. Barrameda, R. Gonzales, **T. Currier Thomas**, M. Esfandiarei. Marfan Syndrome Accelerates Cerebrovascular Aging and Blood-Brain Barrier Permeability. **The Marfan Foundation - Science in Paris** Augst 2022.
    **Travel award and Oral Presentation*

23. M.E. Barrameda, T. Curry, M. Esfandiarei, **T. Currier Thomas**. Age-related vascular dysfuntion increase vulnerability to traumatic brain injury. **39th Annual National Neurotrauma Symposium**. June 2022. J Neurotrauma 39 (11-12), A124-A125.

24. T. Curry, M.E. Barrameda, C.E. Bromberg, M. Saber, R.K. Rowe, R. Gonzales, **T. Currier Thomas**, M. Esfandiarei. 'Increased Neurovascular Vulnerability to Mild Traumatic Brain Injury in a Mouse Model of Marfan Syndrome. **Experimental Biology**. April 2022. Philadelphia, PA. The FASEB Journal 36.
    **Trainee Award*

25. T. Mackey, T.B. Jones, **T. Currier Thomas**, A. Juba, L. Buhlman. Traumatic brain injury in a *Drosophila* upregulates nitric oxide synthase associated with increased acute behavioral deficits and decreased survival time. **Experimental Biology**. April 2022. Philadelphia, PA. The FASEB Journal 36.
    **Trainee Oral Presentation*

26. A. Satinsky, Z. Sabetta, C. Sanghadia, P.D. Adelson, **T. Currier Thomas**. Cross Sectioning Our Emotions: A Histological Assessment of the BLA and CeA After TBI. **ReImagine Health Research Symposium**. Virtual. Phoenix, AZ. February 17, 2022

27. T. Curry, M.E. Barrameda, C.E. Bromberg, M. Saber, R.K. Rowe, R. Gonzales, **T. Currier Thomas**, M. Esfandiarei. 'Increased Neurovascular Vulnerability to Mild Traumatic Brain Injury in a Mouse Model of Marfan Syndrome. **ReImagine Health Research Symposium**. Virtual. Phoenix, AZ. February 17, 2022

28. C. Sanghadia, Z. Sabetta, P.D. Adelson, **T. Currier Thomas**. TBI-Induced and Age-Related Neuroinflammation Intersect at 6-Months Post-Injury. **33rd Undergraduate Biology Research Program Conference. Tucson, AZ.** January 2022.

29. T. Curry, B. Gusek, C.E. Bromberg, R. Gonzales, M. Esfandiarei, **T. Currier Thomas**. Cerebrovascular and Neurological Alterations in a Mouse Model of Marfan Syndrome. **Arizona Physiological Society's Annual Conference**. Virtual. Friday Nov. 6th 2021
    ***Chosen for Oral Presentation*

30. E. Barrameda, T. Curry, R. Folk, **T. Currier Thomas**, M. Esfandiarei. Evaluation of Cerebral Vascular Function in a Mouse Model of Marfan Syndrome. **Arizona Physiological Society's Annual Conference**. Virtual. Friday Nov. 6th 2021

31. C. Sanghadia, Z. Sabetta, P.D. Adelson, **T. Currier Thomas**. TBI-Induced and Age-Related Neuroinflammation Intersect at 6-Months Post-Injury. **Arizona Physiological Society's Annual Conference**. Virtual. Friday Nov. 6th 2021
    ***Chosen for Oral Presentation*
    ***3rd Place Oral Presentation for Undergraduates*

32. Z. Sabetta, A. Condon, G. Krishna, P.D. Adelson, T. **Currier Thomas**. Sex, Age, and Region-Specific Changes in Astrocytes Following TBI in a Behaviorally Relevant Circuit. **Arizona Physiological Society's Annual Conference**. Virtual. Friday Nov. 6th 2021
    ***1st Place Poster Award for Undergraduates*

33. M. McDole, **T. Currier Thomas**, L. Buhlman, T.B. Jones. Nitric oxide synthase levels transiently decrease after TBI in aged *Drosophila*. **Society for Neuroscience**. October 2021. Chicago, Illinois.

34. J. Spiker, **T. Currier Thomas**, T.B. Jones, L. Buhlman. Assessing mild TBI-induced axonal damage in aged *Drosophila melanogaster*. **Society for Neuroscience.** October 2021. Chicago, Illinois.

35. Z. Sabetta, A. Condon, G. Krishna, P.D. Adelson, **T. Currier Thomas**. Sex, age, and region specific changes in astrocytes following TBI in a behaviorally relevant circuit in rats. **Arizona Alzheimer Consortium**. Tucson, AZ. October 2021

36. C. Sanghadia, Z. Sabetta, P.D. Adelson, **T. Currier Thomas**. TBI-induced and age-related neuroinflammation intersect at 6-months post-injury. **Arizona Alzheimer Consortium**. Tucson, AZ. October 2021

37. B. Rajaboina, E. Mian, C.E. Bromberg, J. Baun, C. Zurhellen, P.D. Adelson, **T. Currier Thomas**. Evaluation of phospho-tau pathology in the hippocampus at 6 months following experimental TBI in rats. **Arizona Alzheimer Consortium**. Tucson, AZ. October 2021

38. T. Curry, C.E. Bromberg, M. Saber, R.K. Rowe, R. Gonzales, M. Esfandiarei, **T. Currier Thomas.** Fibrillin-1 Deficiency Accelerates Cerebrovascular Aging, Leaving the Brain More Vulnerable to TBI. **Arizona Alzheimer Consortium**. Tucson, AZ. October 2021

39. G. Krishna, C.E. Bromberg, D. Laubitz, M Herbst-Kralovetz, **T. Currier Thomas**. Sex-specific impact of diffuse TBI in rats: Evidence for chronically altered gut microbiota and affective behaviors. **38th Annual National Neurotrauma Symposium**. July 2021. J Neurotrauma 38 (14), A92.
    ***Trainee award*

40. T. Curry, C.E. Bromberg, M. Saber, R.K. Rowe, R. Gonzales, M. Esfandiarei**, T. Currier Thomas**. Increased TGF-β/MMP Levels Accelerate Cerebrovascular Aging, Leaving the Brain More Vulnerable to TBI. **38th Annual National Neurotrauma Symposium**. July 2021. J Neurotrauma 38 (14), A168-69.

41. T. Greco, G. Neigh, R. Rahupathi, T. Currier Thomas. Equity in neurotrauma: what can we do at the trainee level? 38th Annual National Neurotrauma Symptosium. July 2021. J Neurotrauma 38 (14), A123

42. E. Mian, G. Krishna, C. Sanghadia, Z. Sabetta, C.E. Bromberg, **T. Currier Thomas**. Diffuse TBI induces sex-dependent neuropathology in the hypothalamic-pituitary-adrenal axis. **38th Annual National Neurotrauma Symposium**. July 2021. J Neurotrauma 38 (14), A103.

43. Z. Sabetta, A. Condon, G. Krishna, P.D. Adelson, **T. Currier Thomas**. Sex, age, and region specific changes in astrocytes following TBI in a behaviorally relevant circuit in rats. **38th Annual National Neurotrauma Symposium**. July 2021. J Neurotrauma 38 (14), A19

44. B. Rajaboina, E. Mian, C.E. Bromberg, J. Baun, C. Zurhellen, P.D. Adelson, **T. Currier Thomas**. Evaluation of phospho-tau pathology in the hippocampus at 6 months following experimental TBI in rats. **38th Annual National Neurotrauma Symposium**. July 2021. J Neurotrauma 38 (14), A58.

45. C. Sanghadia, Z. Sabetta, P.D. Adelson, **T. Currier Thomas**. TBI-induced and age-related neuroinflammation intersect at 6-months post-injury. **38th Annual National Neurotrauma Symposium**. July 2021. J Neurotrauma 38 (14), A94.

46. L. Shaw-Patel, **T. Currier Thomas,** A. Gallitano, J. Hartmark Hill, A. Out. Media Training To Enhance Womens's Communications Skills in Professional Settings. **AAMC-Group on Student Affairs/Organization of Student Representatives Spring Meeting.** April 14-17 2021

47. G. Krishna, C Bromberg, D. Laubitz, M. Herbst-Kralovetz, **T. Currier Thomas**. Altered fecal microbiota and behavioral pathology after diffuse traumatic brain injury (TBI): Implications for sex-specific effects. **6th Annual ABRC-Flinn Research Conference.** Phoenix, AZ. Feb 2021
**Chosen for oral presentation*

48. C.E. Hair, A.M. Condon, S.W. Ridgway, G. Krishna, P.D. Adelson, R.K. Rowe, **T. Currier Thomas**. Evidence of sex-dependent HPA axis dysregulation in the sub-acute period after experimental traumatic brain injury. **International Neurotrauma Society Conference**. Feb 2021

49. **T. Currier Thomas,** C. Bromberg, E. Connell, E. Mian, J. Lifshitz, P.D. Adelson, G. Krishna. Traumatic brain injury-induced sex-dependent changes in late-onset sensory hypersensitivity and glutamate neurotransmission. **International Neurotrauma Society Conference**. Melbourne, Australia. Feb 2021

50. **T.C. Thomas**, M. Gulati, J. Hartmark-Hill, E. Mallin, F. Lucio, J. Parrish, S. Muhammad, L. Nelson, C. O'Malley, P. Garcia-Filion, N. Mahnert, G. Federico, A. Titelbaum, R. Gonzales, M. Herbst-Kralovetz, T. Hale, A. Gallitano. Strategic initiative to create a Women in Medicine and Science (WIMS) program at a recently established and independently accredited College of Medicine. **AAMC-Learn, Serve, Lead**. November 9th 2019, Phoenix, AZ

51. **T.C. Thomas**, Z. Swann, C.E. Hair, R.K. Rowe, S.W. Ridgway. Sexual dimorphic dysregulation in the hypothalamic-pituitary-adrenal axis after brain injury. **Society for Neuroscience**. October 21, 2019. Chicago, Illinois.

52. G. Krishna, C.E. Hair, E.C. Connell, E. Mian, J. Lifshitz, P.D. Adelson, **T.C. Thomas**. Traumatic brain injury-induced late-onset sensory hypersensitivity and circuit function: Does sex matter? **National Neurotrauma Symposium**. June 2019, Pittsburgh, Pennsylvania. J Neurotrauma 36 (13), A136.

53. E.C. Connell, G. Krishna, C.E. Hair, P.D. Adelson, **T.C. Thomas**. A novel approach to measuring real-time circuit dysregulation after diffuse brain injury. **Annual National Neurotrauma Symposium**. June 2019, Pittsburgh, Pennsylvania. J Neurotrauma 36 (13), A26.

54. **S.B Ogle, C. E. Hair, P. D. Adelson, J. Lifshitz, S.B. Johnson, **T. C. Thomas**. Early Treatment with Gabapentin Mitigates Chronic Neurological Dysfunction After Experimental Diffuse Traumatic Brain Injury. **Harlan Stone Surgery Scholarship Day**. Banner University Medical Center. Phoenix, AZ 2019. **1st place podium presentation.**

55. **S.W. Ridgway, C.E. Hair, H.W. Morrison, **T.C. Thomas**. Adrenoceptor expression and microglial presentation in the hypothalamus change over time after diffuse axonal injury. **International Neurotrauma Society**. August 2018. Toronto, Canada. J Neurotrauma 35 (16), A249.

56. S.B. Ogle, C.E. Hair, P.D. Adelson, J. Lifshitz, S.B. Johnson, **T.C. Thomas**. Early treatment with gabapentin mitigates chronic neurological dysfunction after experimental diffuse traumatic brain injury.

International Neurotrauma Society. August 2018. Toronto, Canada. J Neurotrauma 35 (16), A267.

57. J.A. Beitchman, S.B. Ogle, D.R. Griffiths, Y. Hur, C.E. Hair, H. Morrison, J. Lifshitz, P.D. Adelson, S.B. Johnson, **T.C. Thomas**. Late-onset, diffuse TBI-induced anxiety-like behavior in rats is preceded by region-dependent pathophysiology in amygdala nuclei. **International Neurotrauma Society**. August 2018. Toronto, Canada. J Neurotrauma 35 (16), A105.

58. C.E. Hair, S.B. Ogle, D.R. Griffiths, P.D. Adelson, J. Lifshitz, S.B. Johnson, **T.C. Thomas.** Early gabapentin treatment has a dose-dependent influence on morbidity after experimental diffuse axonal injury and sham surgery. **International Neurotrauma Society**. August 2018. Toronto, Canada. J Neurotrauma 35 (16), A120.

59. S. B. Ogle, C.E Hair, J.A. Beitchman, B.R. Tallent, P.D. Adelson, J. Lifshitz, **T.C. Thomas,** S.B. Johnson. Experimental Diffuse Traumatic Brain Injury Increased Glucocorticoid Receptors in the Amygdala. **Academic Surgical Congress.** Jacksonville, FL. 2018

60. N, Shah, L. Law, T. Thomas, J. Lifshitz, H. Morrison. Neuropathology of the hippocampal memory circuitry in days following experimental diffuse brain injury. 3rth Annual National Neurotrauma Symposium. July 2017. Snow Bird, UT. J Neurotrauma 34 (13), A134.

61. J.A. Beitchman, D.R. Griffiths, Y. Hur, J. Lifshitz, P.D. Adelson, **T.C. Thomas**. Amygdala circuit dysfunction coincides with late-onset TBI-induced affective symptoms.
    - **The 35th Annual National Neurotrauma Symposium**. July 2017, Snow Bird, UT. J Neurotrauma 34 (13), A103.
    - **Society for Neuroscience**. November 2017, Washington, DC.

62. **S.B. Ogle , C.E. Hair, J.A. Beitchman, B.R. Tallent, P.D. Adelson, J. Lifshitz, **T.C. Thomas**, S.B. Johnson. Synaptogenic Molecules Thrombospondin-1 and Brain Derived Neurotrophic Factor Rise in the Amygdala after Experimental Diffuse Traumatic Brain Injury. *Journal of the American College of Surgeons Clinical Congress*. 225(4)e187 October 2017. San Diego, CA.

63. **S.B. Ogle, L.M. Law, P.D. Adelson, J. Lifshitz, **T.C. Thomas**, S.B. Johnson. Gabapentin attenuates whisker hypersensitivity after diffuse traumatic brain injury in the rat. **American College of Surgeons-Committee on Trauma, Arizona Chapter Conference, Arizona Trauma & Acute Care Consortium.** Phoenix, AZ. November 2016.
    **F*irst place oral presentation.*

64. A.D. Fyans, S.B. Ogle, S.B. Johnson, P.D. Adelson, J. Lifshitz, **T.C. Thomas**. Synapse quantification after experimental diffuse traumatic brain injury and early treatment with riluzole. **The 34nd Annual National Neurotrauma Symposium**. Lexington, KY. June 26th-29th 2016. *J Neurotrauma*. June 2016, 33(13): A-1-A139, PSB-164.

65. **S.B. Ogle, L.M. Law, S.B. Johnson, P.D. Adelson, J. Lifshitz, **T.C. Thomas**. Diffuse traumatic brain injury results in concomitant re-expression of thrombospondin 1&2 and increased synaptic markers in the hippocampus. **The 34nd Annual National Neurotrauma Symposium**. Lexington, KY. June 26th-29th 2016. *J Neurotrauma*. June 2016, 33(13): A-1-A139, PSB-179.

66. L.M. Law, D.G. Griffiths, **T.C. Thomas,** J. Lifshitz. New rehabilitation task designed to reduce somatosensory sensitivity and improve memory performance following experimental TBI. **The 34nd Annual National Neurotrauma Symposium**. Lexington, KY. June 26th-29th 2016. *J Neurotrauma*. June 2016, 33(13): A-1-A139, PSB-241.

67. **T.C. Thomas,** A. Khodadad, P.D. Adelson, J. Lifshitz. Using Circuit-Directed Behavioral Induction of Immediate Early Genes As A Biomarker For Circuit Integrity During Recovery of Brain Injury. **25th**

Annual International Behavioral Neuroscience Society Meeting. June 10th, 2016 Budapest, Hungary.

68. S.B. Ogle, H.G. May, P.D. Adelson, J. Lifshitz, **T.C. Thomas**, S.B. Johnson. Diffuse traumatic brain injury results in evidence of thrombospondin-mediated synaptogenesis in the thalamocortical circuit. **American College of Surgeons- Committee on Trauma, Arizona Chapter Conference, Arizona Trauma & Acute Care Consortium.** Phoenix, AZ. November 2015.
    ***First place poster presentation; first place oral presentation.*

69. **T.C. Thomas**, R.K. Rowe, B.M. Rumney, H.G. May, C.D. Conrad, P.D. Adelson, S.M. Harman, P. Permana, L. Lifshitz. Diffuse traumatic brain injury affects chronic corticosterone levels and alters neuron morphology in the paraventricular nucleus. **Third Annual Phoenix Children's Hospital Research Day, 45th Annual Meeting for the Society for Neuroscience**. Chicago, IL. 2015.

70. S.B. Ogle, H.G. May, R.K. Rowe, B. Rumney, S.B. Johnson, P.D. Adelson, J. Lifshitz, **T.C. Thomas**. Re-expression of developmental thrombospondins after experimental diffuse traumatic brain injury coincides with injury-induced temporal profile of synaptic markers. **Third Annual Phoenix Children's Hospital Research Day, 45th Annual Meeting for the Society for Neuroscience**. Chicago, IL. 2015.

71. T.A. Colburn, D.R. Griffiths, J. Lifshitz, **T.C. Thomas**. Differential impact of anesthetics on real-time electrochemical recordings of glutamate neurotransmission in the rodent brain. **Third Annual Phoenix Children's Hospital Research Day, 45th Annual Meeting for the Society for Neuroscience**. Chicago, IL. 2015.

72. **T.C. Thomas,** H.G. May, S.B. Ogle, H. Ray-Jones, R.K. Rowe, P.D. Adelson, J. Lifshitz. Diffuse traumatic brain injury results in a time course of fluctuating synaptic marker expression that parallels changes in neuron morphology in the somatosensory cortex. **25th Neuropharmacology Conference: Synaptopathy - from Biology to Therapy**. Chicago, IL. 2015.

73. S.B. Ogle, H.G. May, R.K. Rowe, B. Rumney, S.B. Johnson, P.D. Adelson, J. Lifshitz, **T.C. Thomas**. Re-expression of thrombospondins after experimental diffuse traumatic brain injury coincides with alterations in histological and molecular evidence of circuit reorganization. **25th Neuropharmacology Conference: Synaptopathy - from Biology to Therapy**. Chicago, IL. 2015.

74. **T.C. Thomas**, R.K. Rowe, B.M. Rumney, H.G. May, C.D. Conrad, P.D. Adelson, S.M. Harman, P. Permana, L. Lifshitz. Experimental diffuse brain injury leads to chronic corticosterone dysfunction with evidence of compromised neuron morphology in the hypothalamus. **Third Annual Phoenix Children's Hospital Research Day, The 33nd Annual National Neurotrauma Symposium**. Santa Fe, NM. June 29-July 1 2015.

75. **H.G. May, S.B. Ogle, R.K. Rowe, A. Khodadad, P.D. Adelson, J. Lifshitz, **T.C. Thomas**. Diffuse traumatic brain injury results in bimodal variation of synaptic marker expression in the somatosensory cortex over time. **Third Annual Phoenix Children's Hospital Research Day, The 33nd Annual National Neurotrauma Symposium**. Santa Fe, NM. June 29-July 1 2015.

76. **S.B. Ogle, H.G. May, R.K. Rowe, B. Rumney, S.B. Johnson, P.D. Adelson, J. Lifshitz, **T.C. Thomas**. Experimental diffuse traumatic brain injury increases astrocyte-secreted thrombospondin-1 in the thalamus. **Third Annual Phoenix Children's Hospital Research Day, The 33nd Annual National Neurotrauma Symposium**. Santa Fe, NM. June 29-July 1 2015.

77. A.N. Hoffman, P.R. Paode, J.B. Ortiz, S. Kemmou, H.G. May, J. Lifshitz, C.D. Conrad, **T.C. Thomas**. Immediate and Persistent Dendritic Hypertrophy in the Basolateral Amygdala Following a Single Diffuse Traumatic Brain Injury. **The 33nd Annual National Neurotrauma Symposium**. Santa Fe, NM. June 29-July 1 2015.

78. J. Lifshitz, **T.C. Thomas**, J.M. Ziebell, R.K. Rowe, P. Garcia-Filion, P.D. Adelson. Sensory sensitivity in experimental and clinical traumatic brain injury emerges from circuit reorganization. **Cell Symposium**: Translational Neuroscience: Bridging the gap between basic research discoveries and clinical applications. Nov. 13-14, 2014. Arlington, VA, USA.

79. A.N. Hoffman, J.B. Ortiz, **T.C. Thomas,** J. Lifshitz, C.D. Conrad. In the wake of diffuse traumatic brain injury, enduring dendritic hypertrophy within the basolateral amygdala. **44th Annual Meeting for the Society for Neuroscience.** Washington, D.C. 2014.

80. M.N. Evilsizor, K.E. Korp, P.D. Adelson, J. Lifshitz, **T.C. Thomas.** Astrocyte-mediated circuit reorganization: evidence from synaptogenic expression after experimental diffuse traumatic brain injury. **The 32nd Annual National Neurotrauma Symposium**. San Francisco, CA. June 29-July 2 2014.

81. **T.C. Thomas,** A. Khodadad, P.D. Adelson, J. Lifshitz. Verification of circuit-directed rehabilitation paradigm for brain injury-induced circuit reorganization **The 32nd Annual National Neurotrauma Symposium**. San Francisco, CA. June 29-July 2 2014.

82. R. Rowe, T. Colburn, R.S. Burns, **T.C. Thomas,** J. Lifshitz. Experimental diffuse brain injury leads to chronic endocrine dysfunction. **The 32nd Annual National Neurotrauma Symposium.** San Francisco, CA. June 29-July 2 2014.

83. **B. Rumney, A. Khodadad, P.D. Adelson, J. Lifshitz, **T.C. Thomas**. Morphological reorganization of thalamic neurons after diffuse TBI may underlie attenuated immediate early gene activation. **The 32nd Annual National Neurotrauma Symposium**. San Francisco, CA. June 29-July 2 2014.

84. **Khodadad, D.R. Griffiths, M. Evilsizor, P.D. Adelson, J. Lifshitz, **T.C. Thomas.** Activity-related cytoskeletal (ARC) gene expression as a molecular biomarker of circuit integrity after diffuse traumatic brain injury. **11th Annual International Neurotrauma Society.** Budapest, Hungary. March 2014.

85. Khodadad, P.D. Adelson, J. Lifshitz, **T.C. Thomas.** ARC gene expression in response to whisker stimulation. **43rd Annual Meeting for the Society for Neuroscience.** San Diego, CA. 2013.

86. **T.C. Thomas,** H. Ray-Jones, R.P. Hammer, P.D. Adelson, J. Lifshitz. Diffuse brain injury results in morphological changes to neurons that parallel development of late-onset morbidity in rats. **43rd Annual Meeting for the Society for Neuroscience.** San Diego, CA. 2013.

87. **T.C. Thomas,** H. Ray-Jones, R.P. Hammer, P.D. Adelson, J. Lifshitz. Morphological changes in neurons along a diffuse-injured circuit associated with the development of late-onset morbidity in rats. The **31st Annual National Neurotrauma Symposium**. Nashville, TN. August 2013.

88. ****T.C. Thomas,** T. Spaulding, L. Smith, J. Lifshitz. Diffuse brain injury alters synaptogenesis over a time course that corresponds to late-onset behavioral morbidity. The **30th Annual National Neurotrauma Society Symposium**. Phoenix, AZ. July 2012.

89. P. Garcia-Filion, **T.C. Thomas**, E. Magee, P.D. Adelson, J. Lifshitz. Despite anatomical circuit reorganization after diffuse brain injury in the rat, molecular responsiveness to circuit activation remains intact. The **30th Annual National Neurotrauma Society Symposium**. Phoenix, AZ. July 2012.

90. **T.C. Thomas**, T. Cao, L. Smith, T. Spaulding, J. Lifshitz. Diffuse brain injury causes up-regulation of thrombospondins in the rat thalamus; implications for a role in post-traumatic circuit reorganization? **Keystone Symposia: Clinical and Molecular Biology of Acute and Chronic Traumatic Encephalopathies**. Keystone, CO. February 2012.

91. **T.C. Thomas**, J.M. Hinzman, G.A. Gerhardt, J. Lifshitz. "Experimental diffuse brain injury generates functional, pathological, and structural alterations in the thalamus that parallel the development of behavioral morbidity." **41th Annual Meeting for the Society for Neuroscience.** Washington D.C.: 2011.

92. J. Lifshitz, R.D. Young, N.G. Harris, **T.C. Thomas**. "Intracranial mechanics of diffuse brain injury in the rat." **41th Annual Meeting for the Society for Neuroscience.** Washington D.C.: 2011.

93. G.A. Gerhardt**,** T. Noel, P. Jungsuwadee, D.K. St. Clair, M.E. Vore, **T.C. Thomas**. "Treatment with Doxorubicin Affects Glutamate Neurotransmission in the Prefrontal Cortex and Hippocampus." **41th Annual Meeting for the Society for Neuroscience.** Washington D.C.: 2011.

94. **T.C. Thomas,** T. Noel, P. Jungsuwadee, D.K. St. Clair, M.E. Vore, G.A. Gerhardt. "Treatment with Doxorubicin Affects Glutamate Neurotransmission in the Prefrontal Cortex and Hippocampus." **International Conference on the Side Effects of Cancer**; Chemo Brain: Mechanisms & Assessments, Lexington, KY October, 2011.

95. **T.C. Thomas**, J.M. Hinzman, G.A. Gerhardt, J. Lifshitz. "Diffuse brain injury-induced increases in presynaptic glutamate release in the thalamus correspond to structurally remodeled neuronal processes in rats." The **29th Annual National Neurotrauma Society Symposium**. Ft. Lauderdale, FL. July 2011.

96. J.M. Hinzman, **T.C. Thomas**, J. Quintero, G.A. Gerhardt, J. Lifshitz. "Diffuse brain injury disrupts glutamate regulation in the rat striatum." The **29th Annual National Neurotrauma Society Symposium**. Ft. Lauderdale, FL. July 2011.

97. ****T.C. Thomas**, J.M. Hinzman, G.A. Gerhardt, J. Lifshitz. Diffuse brain injury-induced increases in glutamate neurotransmission parallel the development of late-onset behavioral morbidity in rats. **Bluegrass Chapter of the Society for Neuroscience,** Lexington, Kentucky, March 2011. **University of Louisville Neuroscience Day**, Louisville, Kentucky, April 2011.

98. J.M. Hinzman, **T.C. Thomas**, J.E. Quintero P. Huettl, F. Pomerleau, J. Lifshitz, G.A. Gerhardt. Disrupted Glutamate Regulation in the Rat Striatum Two Days after Diffuse Brain Injury. **Bluegrass Chapter of the Society for Neuroscience**, Lexington, Kentucky, March 2011.

99. ****T.C. Thomas,** J.M. Hinzman, G.A. Gerhardt, J. Lifshitz. Injury-induced disruption in presynaptic glutamate release parallels the development of late-onset behavioral morbidity. **4th Annual College of Medicine Postdoctoral Poster Session**. Lexington, KY December 7th, 2010.

100. **J.M. Hinzman, **T.C. Thomas**, J. Quintero, P. Huettl, F. Pomerleau, G.A. Gerhardt, J. Lifshitz. Diffuse brain injury disrupts glutamate signaling in the rat striatum two days post-injury: and enzyme-based microelectrode array study. **40th Annual Meeting for the Society for Neuroscience.** San Diego, CA: 2010.

101. **T.C. Thomas,** J.M. Hinzman, A. Lisembee, T. Cao, G.A. Gerhardt, J. Lifshitz. Delayed Changes in Glutamate Neurotransmission in a Brain-injured Circuit Correspond to the Temporal Development of Behavioral Morbidity: Pharmacological Targets Identified. **The 28th Annual National Neurotrauma Society Symposium**. Las Vegas, NV. June 2010.
    a. 16th Annual Kentucky Spinal Cord and Head Injury Research Trust Symposium. Lexington, KY June 4, 2010.

102. J.M. Hinzman, **T.C. Thomas**, J.E. Quintero, P. Huettl, F. Pomerleau, G.A. Gerhardt, J. Lifshitz. Injury Severity-Dependent Disruptions in Glutamate Signaling in the Rat Striatum Two Days After Diffuse Brain Injury. **The 28th Annual National Neurotrauma Society Symposium**. Las Vegas, NV. June 2010.

103. **T.C. Thomas**, A. Lisembee, G.A. Gerhardt, J. Lifshitz. Glutamate Neurotransmission Recorded on a Sub-

Second Timescale in a Diffuse Brain-injured Circuit Reveal Injury-Induced Deficits that Parallel the Development of Behavioral Morbidity in Rats. **The Second Joint Symposium of the International & National Neurotrauma Societies**. Santa Barbara, CA. September 2009.

104. ****T.C. Thomas**, A. Lisembee, K. Hall, K. McNamara, T. Cao, G.A. Gerhardt, J. Lifshitz. Diffuse Brain Injury Increases Extracellular Glutamate Levels in the Whisker-Barrel Circuit of Rats. **Bluegrass Chapter for Society for Neuroscience**. Lexington, KY, March 18th 2009; **University of Kentucky Physical Medicine and Rehabilitation 21st Annual Research Day**, Lexington, KY, May 28th 2009; 15th Annual Kentucky Spinal Cord and Head Injury Research Trust Symposium, Louisville, KY June 11th and 12th 2009.

105. P.E.A. Glaser, **T.C. Thomas**, D.K. Grandy, G.A. Gerhardt. Elevated Resting Glutamate and Altered Glutamate Dynamics in the Striatum and Prefrontal Cortex of Dopamine D4 Receptor Knockout Mice. Monitoring Molecules in Neuroscience: **12th International Conference on *In Vivo* Methods**. Vancouver, Canada. August 2008.

106. P.E.A. Glaser, **T.C. Thomas**, D.K. Grandy, G.A. Gerhardt. Dopamine D4 Receptor Knockout Mice Have Elevated Resting Glutamate in the Striatum. The **46th Annual Meeting American College of Neuropsychopharmacology**, Boca Raton, FL, December 2007.

107. **T.C. Thomas**, D.K. Grandy, F. Pomerleau, P. Huettl, G.A. Gerhardt, P.E.A. Glaser. Glutamate neurotransmission is altered in the striatum and prefrontal cortex of dopamine D4 receptor knockout mice. **37th Annual Meeting of the Society for Neuroscience**, San Diego, CA: 2007.

108. P.E.A. Glaser, **T.C. Thomas**, S. Dowla, H.H. Gu, G.A. Gerhardt. Altered Glutamate neurotransmission in cocaine-insensitive dopamine transporter (DATvcv) mice. The **37th Annual Meeting of the Society for Neuroscience**, San Diego, CA: 2007.

109. G. A. Gerhardt, E. Rutherford, K. Hascup, J.E. Quintero, P. Talauliker, **T.C. Thomas**, M. L. Stephens, J. Fuqua, T. Coates, J. J. Burmeister, F. Pomerleau, P. Huettl. Second-by-Second Measurements of L - Glutamate and Other Neurochemicals in the CNS of Animal Models and Humans. **12th Institute of Biological Engineering Meeting**. St. Louis, Missouri March, 2007.

110. P.E.A. Glaser, **T.C. Thomas**, D.K. Grandy, G.A. Gerhardt. Poster abstract. Altered Glutamate Dynamics in Dopamine D4 Receptor Heterozygote and Knockout Mice. Hollywood, FL; **The 45th Annual Meeting of American College of Neuropsychopharmacology** (ACNP), 2006

111. **T.C. Thomas,** D.K. Grandy, G.A. Gerhardt, P.E.A. Glaser. Dopamine and glutamate interactions in dopamine D4 receptor knockout mice. Poster 5774. San Diego, CA; **American Academy of Child and Adolescent Psychiatry** (AACAP), 2006

112. ****T.C. Thomas,** F. Pomerleau, P. Huettl, D.K. Grandy, G.A. Gerhardt, P.E.A. Glaser. Glutamate clearance and basal levels are altered in dopamine D4 receptor-deficient mice – an enzyme-based microelectrode array study. **Monitoring Molecules in Neuroscience: 11th International Conference on *In Vivo* Methods**. Villasimius-Cagliari, Italy May, 2006

113. G.A. Gerhardt, F. Pomerleau, P. Huettl, J. Nickell, E. Rutherford, K. Hascup, J.E . Quintero, B.K. Day, **T.C. Thomas,** M.L. Stephens, J.J. Burmeister. Ceramic Enzyme-Based Microelectrode Arrays for Second-by-Second Measurements of L-Glutamate and Other Neurochemicals in CNS. **Monitoring Molecules in Neuroscience: 11th International Conference on *In Vivo* Methods**. Villasimius-Cagliari, Italy May, 2006.

114. **T.C. Thomas**, D.K. Grandy, P.E.A. Glaser. and G.A. Gerhardt,. Glutamate neurotransmission is altered in the striatum of dopamine D4 receptor-deficient mice. **First Dunedin Workshop on the Neurobiology of ADHD**, University of Otago, Dunedin, New Zealand. November 28 - December 1, 2005.

115. **T.C. Thomas,** D.K. Grandy, G.A. Gerhardt, P.E.A. Glaser. Glutamatneurotransmission is altered in the striatum if dopamine D_4 receptor deficient mice. Program No. 605.12. 2004 Abstract Viewer/Itinerary Planner. **35th Annual Meeting of the Society for Neuroscience**, Washington, DC: 2005.

116. B.M. Joyce, M.A. Sloan, **T.C. Thomas**, G.A .Gerhardt, P.E.A. Glaser. Microdialysis studies of adderall®, D-, DL-, and L- amphetamine induced release of dopamine in the striatum of F344 rats, **Frontiers in Neuroscience Symposium-** October 2004; **Bluegrass Chapter of SFN- Spring Neuroscience Day,** University of Kentucky, March 2005.

117. P.E.A. Glaser, B.M. Joyce, **T.C. Thomas**, F.X. Castellanos, G.A. Gerhardt. Differential effects of D-amphetamine, adderall®, and other amphetamine isomers on dopamine neurotransmission in the striatum and nucleus accumbens core. **The 43rd Annual Meeting of American College of Neuropsychopharmacology**, December 2004.

118. P.E.A. Glaser, B.M. Joyce, **T.C. Thomas**, F.X. Castellanos, G.A Gerhardt. Neurochemical investigations of dextroamphetamine, adderall®, and other amphetamine isomers. **American Academy of Child and Adolescent Psychiatry-** October 2004.

119. B.M. Joyce, M.A. Sloan, **T.C. Thomas**, G.A. Gerhardt, P.E.A. Glaser. Microdialysis studies of Adderall® and d-amphetamine-evoked release of dopamine in the striatum and nucleus accumbens core of freely moving rats. 2004 Abstract Viewer/Itinerary Planner. **34th Annual Meeting of the Society for Neuroscience**, San Diego, CA: 2004.

120. **T.D. Currier,** M.F. Salvatore, M. Traub, P. Huettl, D.M. Gash, G.A. Gerhardt. GDNF enhancement of K+- and amphetamine-evoked dopamine release by an increase in tyrosine hydroxylase phosphorylation. Program No. 302.11. 2003 Abstract Viewer/Itinerary Planner. **33rd Annual Meeting of the Society for Neuroscience**, New Orleans, LA: Society for Neuroscience, 2003.

121. E.C. Rutherford, C.R. Gash, B.M. Joyce, S. Surgener, **T.D. Currier,** D. Grandy, G.A. Gerhardt, P.E.A. Glaser. Dopamine neuron dynamics are altered in the nucleus accumbens of mice lacking the D4 dopamine receptor. Program No. 536.10. 2003 Abstract Viewer/Itinerary Planner. **33rd Annual Meeting of the Society for Neuroscience**, New Orleans, LA: Society for Neuroscience, 2003. Online.

122. P.E.A. Glaser, B.M. Joyce, **T.D. Currier**, F.X. Castellanos, G.A. Gerhardt. In Vivo Voltammetric Studies of d-, l-, & d,l-Amphetamine-evoked Dopamine Release in the Rat Striatum and Nucleus Accumbens Core. **Annual Meeting American College of Neuropsychopharmacology**, San Juan, PR December 2002.

123. **T.D. Currier,** P.E. Glaser, B.M. Joyce, F.X. Castellanos, G.A. Gerhardt Microdialysis studies of d- vs. l-Amphetamine evoked release in the rat striatum. **32nd Annual Meeting of the Society for Neuroscience**, Orlando, FL. November 2002.

124. P.E.A. Glaser, B.M. Joyce, **T.D. Currier,** G.A. Gerhardt. *In vivo* voltammetric studies of D- verses D,L-amphetamine evoked dopamine release in the rat striatum and nucleus accumbens core. **32nd Annual Meeting of the Society for Neuroscience**, Orlando, FL. November 2002.

125. P.E.A. Glaser, **T.D. Currier,** B.M. Joyce, G.A. Gerhardt. The Effects of Amphetamines on Dopamine Neurotransmission in the Rat. Fourth Annual Future Leaders in Psychiatry Meeting/ **32nd Annual Meeting of the Society for Neuroscience**, Orlando, FL. November 2002.

126. J.A. Stanford, C.R. Gash, **T.D. Currier,** G.A. Gerhardt. Multi Single Unit Recording of Motor-Related Striatal Neurons in Young vs. Aged F344 Rats. **32nd Annual Meeting of the Society for Neuroscience**, Orlando, FL. November 2002.

127. P.E.A. Glaser, **T.D. Currier,** B.M. Joyce, G.A. Gerhardt. The effects of amphetamines on dopamine neurotransmission in the rat, **Fourth Annual Future Leaders in Psychiatry Meeting-** April 2002.

128. **T.D. Currier,** G.A. Gerhardt. Repeated Dopamine Applications Affect Dopamine Transporter Function. **31st Annual Meeting of the Society for Neuroscience**, San Diego, CA: 2001

129. **T.D. Currier**, J.A. Stanford, and G.A. Gerhardt. Effects of New Generation Antidepressants on Spontaneous Locomotor Activity in Young vs. Aged Fischer 344 Rats. **30th Annual Meeting of the Society for Neuroscience**, New Orleans, 2000.

130. M.S. Purdom, J.A. Stanford., **T.D. Currier,** G.A. Gerhardt. Microdialysis studies of age-related changes in striatal dopamine regulation in Fischer 344 rats: Influence of uptake on potassium-evoked dopamine overflow. **30th Annual Meeting of the Society for Neuroscience,** New Orleans, 2000.

131. J.D. Pagan, P. Karnezos, M.A.P. Kennedy, **T. Currier**, K.E. Hoekstra. Effect of Selenium source on selenium digestibility and blood parameters in exercised thoroughbreds PDF, HTML (1999)

132. M.A.P. Kennedy, **T. Currier,** J. Glowaky, J.D. Pagan. The influence of fruit flavors on feed preference in Thoroughbred horses. Advances in Equine Nutrition. 1998. P71-72 Accession Number: WOS:000176953900023

PEER REVIEW (JOURNALS, GRANTS)

2023-	Neurotrauma Reports editorial board, DOD-Medical Research Program; DOD-PRMRP CDMRP ND-3, NIH NINDS BINP
2022	Scientific reviewer: NIH-Small Business Review Panel, DOD-PRMRP CDMRP TBI
2021	Scientific Reviewer - Arizona Biomedical Research Centre – Research Grant
2020-	Review editor for Frontiers – Neurodegeneration, Neurotrauma, Neuroendocrinology, Brain Research
2012-	Peer review for Frontiers, J NeuroMethods, J Neurotrauma, Brain Research, J Neuroinflammation, Scientific Reports, Brain Injury, Neuroscience Letters, J Neurochemistry, BMC Neuroscience, Neurorehabilitation and Neural Repair

SCHOLARLY PRESENTATIONS AND ACTIVITIES (SEMINARS, SYMPOSIUMS)

2025	Invited Symposium Speaker. Early Rehabilitation Attenuates Late-Onset Symptoms and Restores Circuit Function in a Preclinical Traumatic Brain Injury Model. National Neurotrauma Society. Philadelphia, PA. June 16th, 2025
2025	Speaker - Department of Child Health Faculty JROC 2025 Scientific Presentations. April 9th.
2025	Invited Symposium Speaker. Early Rehabilitation to Prevent Late-Onset Symptoms after TBI and Approaches to Including Sex as a Biological Variable. American Associatation for Neural Therapy and Repair Conference. Clearwater, Florida. April 27th 2025.
2025	Data presentation. PCH Concussion Clinic monthly meeting. March 26, 2025
2024	Invited Speaker. University of North Texas Health Science Center – Fort Worth. Aging after diffuse traumatic brain injury: chronic neurodegeneration, thalamic neuroplasticity, and sex differences. Oct. 22, 2024
2024	Phoenix Children's Hospital Research Symposium. Four poster presentations. TC Thomas, LP Curtin, S. Danoff, B. Rajaboina, CE Bromberg (presenting authors). *TC Thomas top presenter award. Oct. 11, 2024

2024 Speaker - Department of Child Health Faculty JROC 24 Scientific Presentations. May 29th

2024 26th Annual Children's Neuroscience Symposium. April 12&13

2024 9th Annual ABRC-Flinn Research Conference. Attendee. April 5th

2024 Speaker (lab members) – Barrow Neurological Institute at Phoenix Children's Hospital – Children's Neuroscience Grand Rounds. Feb 19th

2023 Invited Speaker. Pennsylvania State. Circuit Reorganization and Approaches to Mitigate Late-Onset Symptoms after Experimental TBI. Nov. 16th, 2023. Hershey, PA.

2023 Invited Speaker. 40th Annual National Neurotrauma Society. Chronic Neuroendocrine Deficiency and Dysregulation after Neurotrauma II. "Preclinical temporal development of TBI-induced neuroendocrine dysregulation" June 27th Austin, Texas

2023 Poster presentations. 40th Annual National Neurotrauma Society. Poster presentations by Tala Curry, Mitchel Haddock, Liam Curtin, Gokul Krishna.

2023 Oral and Poster presentations. 8th Annual ABRC-Flinn Research Conference. Oral presentation by Tala Curry, Poster presentations by Tala Curry and Liam Curtin.

2023 Oral and Poster presentations. KAS Research Day, Midwestern University. Both by Liam Curtin.

2023 Invite Speaker. West Virginia University. The Etiology of Post-concussive symptoms after diffuse traumatic brain injury. March

2023 Grand Rounds. Phoenix Children's Hospital. January 9th. Gokul Krishna, Tala Curry, Caitlin Bromberg.

2022 Society for Neuroscience. San Diego, California Nov 12-16, 2022. (Two posters presented by Curry and Bromberg)

2022 Arizona Alzheimer's Consortium-23rd Annual Scientific Conference. Arizona State University, Tempe, AZ Sept 22, 2022 (Five posters presented by Sabetta, Rajaboina, Curry, Krishna, Curtin)

2022 AZ Physiological Society's Conference (Tempe, AZ), October 2022
1st place postdoc/graduate student Poster presentation – Tala Curry
Postdoc/graduate student oral presentation – Zachary Sabetta
Undergraduate oral presentation – Bhavik Rajaboina
(Four posters presented by Curry, Krishna, Curtin, Barrameda)

2022 American Medical Association – Research Challenge. Virtual. October 20-22,2022 (One Poster - Satinsky)

2022 39th Annual National Neurotrauma Society, Atlanta, GA. (Krishna, Curry, Rajaboina, Sabetta, Sanghadia, Abbasloo, Barrameda – Posters). June 25-30th.

2022 7th Annual ABRC-Flinn Research Conference. UACOM-P. Tala Curry (Poster), Caitlin Bromberg (Poster). April 14th.

2022 Arizona Imaging and Microanalysis Society (AIMS) conference. UA-COMP. Tala Curry (lightning round, poster), Bhavik Rajaboina (lightning round, poster). Tala Curry (2nd place oral presentation); Bhavik Rajaboina (3rd place oral presentation). April 8th.

2022 Experimental Biology 2022, Philadelphia. Two students in attendance – Tracy Mackey (data blitz, poster), Tala Curry (2022 Graduate Student Ambassador, poster). April 2-5.

2022 Invited Speaker, University of New Mexico, Department of Neurosciences Weekly Seminar Series "Crossed wires: Circuit reorganization after diffuse traumatic brain injury." March 24.

2022 4th Annual reimagine Health Research Symposium (3 posters – Curry, Santisky, Sabetta)

2022 Undergraduate Biology Research Program – 33rd Annual Conference (1 poster – C. Sanghadia)

2021 AZ Physiological Society's Conference (Midwestern University, Glendale, AZ)
3rd place undergraduate oral presentation – Chaitanya Sanghadia
1st place undergraduate poster presentation – Zachary Sabetta
Selected for postdoc/graduate student oral presentation – Tala Curry

2021 AZ Alzheimer's Consortium (4 posters)

2021 Organizer and Panelist for Virtual Round Table: Sex Differences in Neurotrauma Research. June 2nd. Hosted by National Neurotrauma Society.

2021 Invite Speaker and poster (Gokul Krishna, PhD; Postdoc) – "Altered fecal microbiota and behavioral pathology after TBI: implications for sex-specific effects." 6th Annual ABRC-Flinn Research Conference. February 24th, 2021

2021 6th Annual ABRC-Flinn Research Conference. Poster (Tala Curry) – "Cerebrovascular and Neurological Alterations in a Mouse Model of Marfan Syndrome." February 24th, 2021

2020 AZ Physiological Society's Conference (grad student invited speaker).

2020 Current Topics in Traumatic Brain Injury Webinar Series via Zoom. International Attendence. May 27th, 2020
https://docs.google.com/spreadsheets/d/1uRnNSWVfgsknqfVdUtC7bEUair7WYJV5YszfORbgLt8/edit#gid=0

2019 Invited Speaker – Phoenix VA – "Evidence of chronic neuro-endocrine dysregulation after TBI" – October 15th, 2019

2019 Invited speaker – 2019 Arizona Wellbeing Commons Conference – "The etiology of chronic neurological deficits after traumatic brain injury" – September 27th, 2019, Phoenix, AZ

2019 Arizona Postdoctoral Research Day – Poster Presentation (Gokul Krishna, PhD)– "Traumatic brain injury (TBI) and sex: Effects on late-onset behavioral morbidly and underlying brain circuit deficits" - September 18th, 2019, Phoenix, AZ

2019 Invited Speaker – PCH Seminar Series – "Early inhibition of injury-induced circuit reorganization improves long-term outcomes in an experimental model of diffuse traumatic brain injury" September 17th, 2019

2019	Invited Speaker – National Neurotrauma Society – "Studying chronic morbidity after TBI: An argument for circuits" July 3rd, 2019 Pittsburgh, PA
2019	Mini Medical School – "The Brain: Assessment Treatment of Concussions" – presented - University of Arizona College of Medicine-Phoenix. April 10, 2019
2019	Invited Speaker – Virginia Commonwealth University – "Chronic HPA-axis dysregulation after experimental TBI – opening a can of worms" February 22, 2019, Richmond, VA
2018	Invited Speaker – Biomedical Sciences Seminar Series – "Circuit reorganization after diffuse traumatic brain injury: insights from studying the whisker barrel circuit" September 20th, 2018
2013-2019	Phoenix Children's Hospital Annual Research Day, Phoenix, AZ
2017	Invited Speaker – University of California-Davis – "Spectacular Chaos: The Recovery of Neuronal Networks after Diffuse Traumatic Brain Injury" December 5th, 2017. Davis, California
2017	University of Arizona College of Medicine – Academic Excellence Day
2017	2nd Annual ABRC-Flinn Research Conference, Phoenix, AZ
2017	Midwestern University Research Day, Glendale, AZ
2017	Arizona State University Molecular, Cellular, and Tissue Bioengineering Conference
2016	Invited Speaker – National Neurotrauma Society – "Persisting Pathology of the Amygdala After Diffuse TBI" June 26th, 2016 Lexington, KY
2016	Invited Speaker – International Behavioral Neuroscience Society Annual Meeting – "Using Circuit-Directed Behavioral Induction of Immediate Early Genes As A Biomarker For Circuit Integrity During Recovery of Brain Injury" June 10th, 2016 Budapest, Hungary
2016	Southwest Trauma and Acute Care Consortium, Scottsdale, AZ
2016	Arizona Chapter of American College of Surgeons, Tucson, AZ
2015	Invited Speaker – Biomedical Sciences Seminar Series – "Chronic Endocrine Deficits after Experimental Traumatic Brain Injury" December 17th, 2015
2015	Invited Speaker – Phoenix VA Health Care System – Endocrine Grand Rounds – "Diffuse Brain Injury-Induced Chronic Endocrine Deficits: An Experimental Model for Translational Research" January, 20th, 2015
2015	Arizona State University's 5th Annual Neuroscience Symposium, Tempe, AZ
2014	Invited Speaker – University of Kentucky Spinal Cord and Brain Injury Research Center (SCoBIRC) "Maladaptive Circuit Reorganization Contributes to TBI-Induced Chronic Morbidity: The Plot Thickens" Lexington, KY July 24th, 2014
2013	Society for Neuroscience – Nanosymposium – Brain Injury: Cellular and Molecular Mechanisms – "Diffuse brain injury results in morphological changes to neurons that

	parallel development of late-onset morbidity in rats" San Diego Convention Center, San Diego, CA
2013	Invited Speaker – Arizona State University – Behavioral Neuroscience Seminar: Fall 2013 – "Circ-Dis-Array: Maladaptive Circuit Reorganization Contributes to TBI-Induced Chronic Morbidity" Tempe, AZ
2013	2013 VISN 18 (VA Southwest Health Care Network) Research Forum. Albuquerque, NM
2013	Academic Excellence Day; University of Arizona – College of Medicine. Phoenix, AZ
2012	Invited Speaker – Kentucky Spinal Cord and Brain Injury Research Trust Symposium's 'Scholars in Training' - "A pivotal role for synaptogenesis in maladaptive circuit reorganization after diffuse brain injury?' Embassy Suites Hotel, Lexington KY
2012	Invited Speaker - Keystone Symposia: Clinical and Molecular Biology of Acute and Chronic Traumatic Encephalopathies – "Diffuse Brain Injury Induces Up-Regulation of Thrombospondins in the Rat Thalamus; Implications for a Role in Post-Traumatic Circuit Reorganization" Keystone, CO
2012	2012 VISN 18 (VA Southwest Health Care Network) Research Forum: "Looking over the Horizon;" Phoenix, AZ
2009-12	15-17th Annual Kentucky Spinal Cord and Head Injury Research Trust Symposium, Louisville, KY
2006, 2011-12	University of Louisville - Neuroscience Day. Louisville, KY
2011	International Conference on the Side Effects of Cancer; Chemo Brain: Mechanisms & Assessments, Lexington, KY
2009, 2011	University of Kentucky Physical Medicine and Rehabilitation 21st Annual Research Day, Lexington, KY
2005-07,2009-11	Bluegrass Chapter for Society for Neuroscience. Lexington, KY
2008-11	College of Medicine Postdoctoral Poster Session, Lexington, KY
2010	Center for Clinical and Translational Science Spring Conference, Lexington, KY
2010	Postdoctoral Development Seminar Series – "Circuit Dis-Array: Alterations in presynaptic glutamate release parallel the development of late-onset behavioral morbidity in a diffuse brain-injured circuit" University of Kentucky College of Medicine, Lexington, KY
2010	Selected Oral Presentation – Center for Clinical and Translational Science Spring Conference – "Glutamate Neurotransmission Recorded on a Sub-Second Timescale in a Diffuse Brain-injured Circuit Reveal Injury-Induced Deficits that Parallel the Development of Behavioral Morbidity in Rats" Lexington Convention Center, Lexington, KY
2008	Invited Speaker - Clinical and Translational Science Fall Seminar Series Grand Rounds – "Real-time Measurement of Circuit Function in Rodents with Diffuse Traumatic Brain Injury" University of Kentucky College of Medicine, Lexington, KY

2008 Invited Speaker – Pennington Biomedical Research Center – "Alterations in Dopamine and Glutamate Neurotransmission in Dopamine D4 Receptor Knockout Mice: Implications for Understanding ADHD" Baton Rouge, LA

2008 Invited Speaker – St. Jude Children's Research Hospital – "Alterations in Dopamine and Glutamate Neurotransmission in Dopamine D4 Receptor Knockout Mice: Implications for Understanding ADHD" Memphis, TN

2007 Seminar Series Speaker - University of Kentucky Department of Anatomy and Neurobiology – **"**Dopamine and Glutamate Alterations in Dopamine D4 Receptor-Deficient Mice: Implications for Understanding ADHD" Lexington, KY

2006 Lexington Conference on RNA Therapy for Neurodegenerative Diseases. Lexington, KY

2006 Seminar Series Speaker - University of Kentucky Department of Anatomy and Neurobiology – "Glutamate Alterations in Dopamine D4 Receptor-Deficient Mice: Implications for Understanding ADHD" Lexington, KY

2005 Seminar Series Speaker - University of Kentucky Department of Anatomy and Neurobiology – "Glutamate and Dopamine Interactions in D4R Knockout Mice: Implications for ADHD" Lexington, KY

FUNDING

Pending (Council Review)

2025 NIH/NINDS - 7% R01NS143904-01A1
Aligning Circuit-Directed Rehabilitation with HPA Axis for Improved TBI Recovery.
PI: **Theresa Currier Thomas, PhD**

2025 VA BLR&D – 24% 1I01BX006852-01A2
Manipulating activity-dependent immediate early gene expression to improve memory.
PI: Amelia Gallitano, MD, PhD; **Co-I: Theresa Currier Thomas PhD**

Pending (IRG Review)

2025 NIH/NIA – 27% R01NS142113-01A1
Defining essential components of nigral dopamine signaling in exercise-mediated motor recovery during nigrostriatal neuron loss.
PI: Michael Salvatore, PhD; **Co-I: Theresa Currier Thomas, PhD**

2025 NIH/NINDS – 17% R01NS146972
HPA Axis Dysregulation and Neurotransmitter Interactions Following Traumatic Brain Injury. PI: **Theresa Currier Thomas, PhD**

Pending (Under Revision)

2025 NIH/NINDS R01NS146472
Early Interventions to Guide Neuroplasticity and Prevent Late-Onset TBI Deficits
PI: **Theresa Currier Thomas, PhD**

2025 NIH/NINDS R01NS143673
Targeting Early Synaptogenesis to Mitigate Maladaptive Circuit Reorganization and Long-Term Affective Disorders Following Traumatic Brain Injury
PI: **Theresa Currier Thomas, PhD**

2022 NIH/NINDS – 35% R21
Targeting endothelial S1PR1 as a potential therapeutic approach for acute ischemic stroke.
PI: Rayna Gonzalas, PhD; Co-I: **Theresa Currier Thomas, PhD**

2022 NIH/NINDS R01 NS130534
Overcoming the biosensor degradation problem to study the excitatory:inhibitory imbalance associated with behaviorally relevant circuit function after TBI
PI: Teresa Murray, PhD; MPI: **Theresa Currier Thomas, PhD**

2022 NIH/NINDS R21 HD110909
Phase I/II efficacy trial. Early inhibition of synaptogenesis after emergency department visit with mild Traumatic Brain Injury. *Being revised.*
PI: David Adelson, MD; **Co-I: Theresa Currier Thomas, PhD**

Completed

2023-2025 NIH/NIA R36 AG083385-01
Accelerated cerebrovascular aging in a fibrillin-1 mutated mouse model.
PI: Tala Curry-Koski; Mentor: **Theresa Currier Thomas, PhD**

2017 NIH/NINDS R01 NS100793-01A1
"Electrochemical assessment of behaviorally relevant circuit function after TBI"
Coupling an in vivo model of circuit disruption with state-of-the art in vivo electrochemical recordings in awake, behaving rats to provide a powerful approach to evaluate the initial and delayed alterations in glutamate signaling that contributes to late-onset brain injury-induced hypersensitivity.
PI: **Theresa Currier Thomas, PhD**
($330,000/year+NCE 12/2017-11/2024)

2017 VA/RRD1 1 I01 RX002472-01A1
"Brain injury rehabilitation modality, regulation, and structural plasticity"
This proposal evaluates the efficacy of active versus passive rehabilitation of sensory sensitivity and cognitive impairment using two novel rehabilitation strategies in laboratory rats.
PI: Jonathan Lifshitz; **Co-I: Theresa Currier Thomas, PhD**
($275,000/year 10/2017-9/2022)

2020 Valley Research Partnership P1A-5012
"Traumatic brain injury-induced blood-brain barrier permeability and impaired neurotransmission are mediated by FBN1 mutation in MFS mice"
PIs: **Theresa Currier Thomas, PhD** and Tala Curry, MBS
($10,000 7/1/2020-6/30/2021)

2020 NIH/NINDS R21 NS12022
"Bidirectional relationship between growth hormone and sleep following juvenile TBI" The proposed studies evaluate how brain injury induced-growth hormone deficiency progresses over time in a juvenile rodent model of TBI, the influence on levels of growth hormone-releasing hormone and somatostatin, and the effect of these changes on growth and sleep.
PI: Rachel Rowe; **Co-I: Theresa Currier Thomas, PhD**
($423,750 12/2020-11/2022)

2020 NIH/NHLBI (subaward) R15HL145646

"*Targeting endothelial dysfunction in a genetic mouse model of aortic aneurysm: implications for prevention and therapy*."
This subaward covers 50% of a graduate student's stipend, fringe benefits, and tuition.
PI: **Theresa Currier Thomas, PhD**
($41,824 08/01/2020-12/31/2022)

2021 Graduate and Professional Student Council Research and Project (ReaP) Grant
Transgenic mouse model for Marfan Syndrome – 2 Breeding Pairs
PIs: Tala Curry, MBS and **Theresa Currier Thomas, PhD**
$1,300.00
PI: Tala Curry, MBS; Mentor: **Theresa Currier Thomas, PhD**

2021 Valley Research Partnership
"Traumatic brain injury changes to pharmacokinetics in both male and female rats"
PIs: **Theresa Currier Thomas, PhD** and Caitlin Hair
($10,000 7/2021-6/2022)

2021 PCH Leadership Circle Grant
"Equipment and Sex-Differences"
PI: **Theresa Currier Thomas, PhD**
($99,900 9/2021-8/2022)

2022 NIH/NINDS R13
"Support of 39th Annual National Neurotrauma Society"
PI: Courtney Robertson, MD **Key Personnel: Theresa Currier Thomas, PhD (NNS – Training, Education, and Mentorship Director)**

2019 Valley Research Partnership P1-4009
"Late-onset traumatic brain injury-induced anxiety-like behavior is mediated through changes in gut microbiota"
PIs: **Theresa Currier Thomas, PhD** and Gokul Krishna, PhD
($10,000 7/2019-6/2020)

2019 GPSA 2019 Athletics Research Grant (ASU)
"Diffuse traumatic brain injury causes sexually dimorphic disruption in the HPA axis"
PIs: **Theresa Currier Thomas, PhD** and Samantha Ridgway B.S.
($3,500)

2018 Leadership Circle Grant-Phoenix Children's Hospital
"Accessories to update equipment for 3D digital Neuron Reconstruction"
PI: **Theresa Currier Thomas, PhD**
($55,878)

2018 Valley Research Partnership P1201706
"Diffuse traumatic brain injury causes sexually dimorphic disruption in the HPA-axis"
PI: **Theresa Currier Thomas, PhD** and Samantha Ridgway
($4,320 6/2018-11/2018)

2017 Valley Research Partnership P2201607
"Prevention of Synaptogenesis as a prophylactic therapy for post-traumatic morbidity"
PI: **Theresa Currier Thomas, PhD** and Steven B. Johnson, MD
($80,000 01/15/2017-7/14/2018)

2016 Research Development and Partnering Initiative Award (RDPI) P1201607

"Electrochemical assessment of behaviorally relevant circuit function at a chronic time point after TBI"
PI: **Theresa Currier Thomas, PhD** and Joshua Beitchman, MBS
($5,000/yr)

2016 Research Development and Partnering Initiative Award (RDPI) P1201608
"Expression of synaptogenic molecules, thrombospondin 1&2, and dynamic neuronal morphology in the memory circuits after experimental diffuse traumatic brain injury"
PI: **Theresa Currier Thomas, PhD** and Sarah B. Ogle, DO, MS
($5,000/yr)

2016-2017 Directors Research and Education fund at Phoenix Children's Hospital Foundation.
"Electrochemical measures of circuit function"
PI: **Theresa Currier Thomas, PhD**
($35,000)

2014-2017 Bisgrove Scholarship Fellowship
Science Foundation Arizona
Endocrine Dysfunction After Traumatic Brian Injury
Role: Research Mentor for Rachel K. Rowe
($200,000)

2014-2017 Arizona Biomedical Research Commission (ABRC)
Early Stage Investigator Award (ADHS14-082987) ADHS14-00003606
"Experimental TBI-Induced Endocrine Dysfunction: Timing, Mechanisms, and Treatment"
PI: **Theresa Currier Thomas, PhD – 30-50%**
($75,000/year 2014-2017)

2014 Leadership Circle Grant-Phoenix Children's Hospital (Competitive grant for equipment)
"Integrated Computer Microscope Analysis System"
PI: **Theresa Currier Thomas, PhD**
($99,867)

2013 Pfizer
Compound transfer agreement for Gabapentin
"Inhibition of synaptogenesis mitigates late-onset post-traumatic morbidity in rats"
One time transfer of gabapentin (Neurontin®) worth ~$100,000.00

2013 Leadership Circle Grant-Phoenix Children's Hospital (Competitive grant for equipment)
"Experimental Equipment for Recording Neurotransmission in the Brain"
PI: **Theresa Currier Thomas, PhD**
($54,544)

2012-2014 NIH/NINDS R03 NS077098-01
"Inhibition of synaptogenesis mitigates late-onset post-traumatic morbidity in rats"
PI: Jonathan Lifshitz, PhD
Co-I: **Theresa Currier Thomas, PhD**
($75,000/year)

2012-2013 PCH Research Award Committee Grant Proposal
"Feasibility Study of Functional MRI Assessment of Sensory Sensitivity in Mild Traumatic Brain Injury"
PI: Pamala Garcia-Filion, PhD
Co-I: **Theresa Currier Thomas, PhD**

($29,581/year)

2012 Kentucky Spinal Cord and Head Injury Research Trust #11-9A
"Diffuse Traumatic Brain Injury Induces Synaptogenesis and Consequent Adverse Incidents"
PI: Jonathan Lifshitz, PhD
Co-I: **Theresa Currier Thomas, PhD**
1/31/2012 – 3/1/2012
Funding returned when left the state for a faculty position in AZ

2010-2016 NIH/NINDS R01 NS065052
"Neural Circuit Disruption by Diffuse Brain Injury: Basis for Morbidity & Therapy"
PI: Jonathan Lifshitz, PhD
Role: Postdoctoral Associate, Co-investigator

2009-2011 National Institute on Aging Training Grant 2T32AG000242-16
"Cellular and Molecular Basis of Brain Aging"
Primary Investigator/Director: Greg. A. Gerhardt, Ph.D.

TEACHING AND INSTRUCTION

2021-2023 Co-Instructor CTS 696B Student Seminar Series (Ron Hammer, PhD)

2012-2025 Instructor: Neurological Sciences Block. Lecture: Anatomy of the Hypothalamus. University of Arizona College of Medicine – Phoenix (1st year medical students)

2018-2025 Case Based Instructor for University of Arizona College of Medicine-Phoenix first year medical students

2020-2023 Guest lecturer and journal club facilitator – NEU555 Arizona State University. Genetics and the Nervous System. The neurobiology of traumatic brain injury. Course Director – Jason Newburn.

2022-2025 Guest Instructor, Midwestern University Glendale, BMM(A/S)G 863 Neuroscience. "Neuropathophysiology of Traumatic Brain Injury." Course Director – Lori Buhlman

2022 Co-Coordinator, UACOMP First Friday Trainee Seminar Series (Ron Hammer, PhD)

2021 Guest lecturer, Wayne State, PYC7890, Research Seminar. "Approach to Laboratory/Team Management and Mentorship." Course Director – Alana Conti. 11/12/2021

2015-2017 Instructor – Arizona State University – Guest Instructor for BME 598-Clinical Neuroscience – The Hypothalamus, Pituitary Gland, Endocrine System and Traumatic Brain Injury

2005 Teaching Assistant: ANA 516 – *Selected Topics in Advanced Neuroscience.* University of Kentucky.

2004-08 Training Course Instructor – Center for Microelectrode Technology. "Second-by-Second Electrochemical Measurements in Biological Systems"
University of Kentucky, Lexington, KY

2000, 2002 Training Course Instructor - Center for Sensor Technology. "Second-by-Second Electrochemical Measurements in Biological Systems"

Marine Biological Laboratory, Woods Hole, MA

PROFESSIONAL DEVELOPMENT (TRAINING, MEMBERSHIPS)

2023	National Research Mentoring Network (NRMN) Culturally Aware Mentorship Workshop
2022	AAMC Mid-Career Women Faculty Leadership Development Seminar. December 6-9; Indian Wells, CA.
2022- 2020	Pan American Neuroendocrine Society Women in Medicine Summit Meeting, October 9th&10th, Chicago, IL (Moved to Virtual)
2020	The Social Television Network. Media Training. How to give an interview on research developments in person or on Zoom. August 19th
2019	Attendance and Poster Presentation to AAMC – Learn, Serve, Lead in Phoenix, AZ – Nov. 8-12
2019-	National Neurotrauma Society – Membership committee
2018-	Women in Medicine and Science – Executive Committee Chair- Events sub-committee
2014-2015	Scottsdale Leadership Class of XXIX – A 6-month community leadership development course (http://scottsdaleleadership.org/)
2011	Training Course Participant: Second-by-Second Electrochemical Measurements in Biological Systems. Center for Microelectrode Technology, University of Kentucky. Course and Center Director: Greg A. Gerhardt. May 15th, 2011 Rationale: To remain up-to-date in with technical, hardware and software advancements regarding microarray technology in anesthetized and freely-moving animal preparations.
2009-	National Neurotrauma Society – member
2009-	Women in Neurotrauma/TEAM – member and mentor
2008-2012	The National Spinal Cord Injury Association – member
2004	National American Association for Laboratory Animal Science member
2001-2012	Local American Association for Laboratory Animal Science (AALAS) member
1999-2012	Bluegrass Society for Neuroscience – member
1999-	Society for Neuroscience – member

MENTORSHIP, TRAINING, THESIS & DISSERTATION COMMITTEES

Current

2015- Caitlin (Hair) Bromberg – *Synaptogenesis after diffuse TBI and the effect of pharmacological treatment on long-term outcomes.*

- 2015-2017 Volunteer
- 2017-2018 Lab Technician
- 2019-current Laboratory Coordinator, University of Arizona

- 2020 – PhD Candidate – Arizona State University
    - Dissertation Mentor
    - Primary Mentor

2019- Bhavik Rajaboina – *Aging-with-traumatic brain injury: Evaluation of neuropathology, axonal injury, neuroinflammation, autophagy, and pTau pathology in the dentate gyrus at 6-months post-injury in rats.*

- 2019-2020 Basis High School Student and part of the BMS summer program.
- 2020- Undergraduate volunteer at Arizona State University
- Primary Mentor
- 2025-2029 University of Arizona College of Medicine Tucson

2021- Liam Curtin, MBS - Midwestern University-Master's in Biomedical Science, *The role of TGF-β in vascular aging after TBI*

- 2021-2023 Master's thesis committee - Advisor and committee chair
- 2023-2027 Arizona College of Osteopathic Medicine, Midwestern University, Glendale, Arizona
- 2024 Kenneth A. Suarez Summer Research Fellowship: *TGF-β signaling in the hippocampus of Fbn1+/- and C57BL/6 Control Mice* (preclinical Marfan Syndrome) Currier Thomas Lab

2022- Samuel Danoff – Undergraduate Research Intern from the University of Arizona – Tucson. *Temporal profiling microglial morphology after traumatic brain injury.*

- Primary Mentor

2024- Stephen Gaughran – Postbac Research Intern.
Post-injury astrocyte phenotype

- Primary Mentor

2025- Monique Surles-Zeigler – Assistant Professor, Univeristy of California, San Diego, La Jolla, CA; National Neurotrauma Society Mentor:Mentee Program

2025 Natalie Pinkowski – Post-doctoral Research Fellow at University of California, Los Angeles, National Neurotrauma Society Mentor:Mentee Program

Previous

2024-2025 Natalie Para – Undergraduate Research Intern from Arizona State University.
Optimization of Barnes maze after traumatic brain injury.

- Primary Mentor

2023-2025 Jesus Venegas – Midwestern University-Master's in Biomedical Science: *Use of Barnes maze to evaluate late-onset cognitive decline after brain injury.*

- Master's thesis committee - Advisor and committee chair

2024-2025 Sebastian Laguna – 2024-2028 Medical Student from Midwestern University.
Chronic pathology in optic radiations after TBI - gliosis

- Primary Mentor

2024-2025 Rachel Lind – Undergraduate at Dickinson. National Neurotrauma Society Mentor:Mentee Program

2024-2025 Jillian Urban, PhD – Assistant Professor at Wake Forest. National Neurotrauma Society Mentor:Mentee Program.

2024-2025 Pariza Farooq – High School Student Intern from Basis High School
Chronic neuroinflammation after TBI
Primary Mentor

2024-2025 Scott Brown – 2024-2028 Medical Student from Midwestern University.
Chronic pathology in optic radiations after TBI - neurodegeneration
- Primary Mentor

2018-2024 Gokul Krishna – Post-doctoral scholar – University of Arizona College of Medicine-Phoenix. *Electrochemical measures of behaviorally relevant circuitry following TBI/Chronic impact of TBI on the gut microbiome*
- Primary Mentor
- 2025 Lab Scientist UACOMP Translational Neurosciences

2020-2024 Elham Abbasloo, MS – Scientist – Kerman University of Medical Sciences, *Mechanisms of neuroprotection following traumatic brain injury*
- Voluntary Co-Mentor/Collaborator
- Graduate Student – University of Texas - Houston

2018-2024 Erum Mian, Mbbs – Volunteer – *Influence of TBI on glucocorticoid receptor presence on microglia*
- Primary Mentor

2019-2024 Tala Curry, MBS, PhD
- 2019-2024 PhD Clinical Translational Science – University of Arizona College of Medicine – Phoenix. *Vascular dysregulation after TBI in Marfan Syndrome experimental model*.
  - Mentor and chair of thesis committee
- Current: 2024-2028 University of South Carolina Medical School

2023-2024 Andrea Roberts
- Post-baccalaureate – Buck Institute, CA
  - National Neurotrauma Mentor:Mentee Program – Mentor

2022-2024 Gayathri Srinivasan, PhD
- 2022-2024 PhD candidate – Arizona State University
  - National Neurotrauma Mentor:Mentee Program – Mentor
- Current: Postdoc Fellow - Boston Children's

2022-2024 Lakshmi Madhavpeddi, PhD
- PhD candidate - University of Arizona College of Medicine – Phoenix. The impact of excessive glucocorticoid exposure in utero on sympatho-vagal balance.
  - PhD Dissertation Committee Member
- Current: Postdoctoral Scholar - University of Colorado

2023 Avantika Mitbander – Flinn Summer Internship Program – Arizona State University. Quantification of amino-cupric-silver stain in relays of the whisker barrel circuit to determine the duration of pathology in male and female rats.
- Primary Mentor

- 2024-2028 Arizona College of Osteopathic Medicine, Midwestern University, Glendale, Arizona

2022-2023 Melissa Gingold

- 2022-2023: Undergraduate Research Summer Intern from University of Arizona – Tuscon. *Cognitive behavioral scoring after traumatic brain injury and rehabilitation.*
  - Primary Mentor
- Current: Bachelor's of Science in Nursing Program University of Arizona, Tucson

2018-2023 Zachary Sabetta – *Gliosis in the relays of the whisker barrel circuit over 6 months post-injury in male and female rats.*

- 2018-2022 Undergraduate Research Intern from Arizona State University- Pre-medical School Program
  - Primary Mentor
- 2022-2023 Lab technician in Currier Thomas Lab for gap year prior to medical school
  - Supervisor/Mentor
- Current: 2023-2027 Doctor of Osteopathic Medicine at A.T. Still University

2022-2023 Alicia Swan, PhD

- Assistant Professor – The University of Texas San Antonio and VA
  - National Neurotrauma Mentor:Mentee Program – Mentor

2020-2023 Mary Eunice Barrameda, MBS

- Midwestern University-Master's in Biomedical Science, *Cerebrovascular compromise in connective tissue disorders*
  - Master's thesis committee - Advisor and committee co-chair

2021-2023 Mitchel Haddock, MBS

- 2021-2023 Midwestern University-Master's in Biomedical Science, *Growth Hormone Dysregulation after TBI*
  - Master's thesis Advisor and committee chair
- Current: 2023-2027 University of Illinois College of Medicine

2021-2022 Nafisa Jadhavi, PhD –

- Assistant Professor, Midwestern University-Glendale
  - Scientific advisor for the University of Utah Grant Writing Coaching Groups Study as part of the National Research Mentoring Network (NRMN)
  - Associate Professor, Southern Illinois

2021-2022 Daniel Smith – Undergraduate Research Intern from Arizona State University-*Time course of synaptogenesis in the whisker barrel circuit.*

- Primary Mentor

2022 Mackenzie Lopez

- High School Summer Intern from Xavier College Preparatory High School. *Astrocyte morphology surrounding the cortical vessels after traumatic brain injury.*
  - Primary Mentor
- Current: 2023-2027 Brown University

2021- 2022 Chaitanya Sanghadia – University of Arizona Undergraduate Student and Summer Intern. *Microglial activation in the whisker barrel circuit.*

- Primary Mentor

- 2024-2028 Arizona College of Osteopathic Medicine, Midwestern University, Glendale, Arizona

2021-2022 Alexander Satinsky, DO, MBS

- Individualized DO/MBS program through Midwestern University, Chicago (D3) and university of Arizona (Phoenix) Clinical Translational Science Master's program): *Glucocorticoid receptor and neuropathology in the amygdala: Linking the potential roles of GR in chronic outcomes post-traumatic brain injury.*
  - Master's thesis committee - Advisor and committee co-chair
  - Resident Physician at Riverside Medical Center – Kankakee, IL

2021-2022 Iga Fudyma, DO, MBS

- Volunteer trainee: Midwestern University School of Osteopathic medicine
  - Primary Mentor
  - Resident Physician at Riverside Medical Center – Kankakee, IL

2020-2022 Tracy Mackey, MBS

- Midwestern University-Master's in Biomedical Science. *Traumatic brain injury associated with climbing deficits and decreased nitric oxide synthase expression in Drosophila melanogaster*
  - Master's thesis committee - advisor and committee member
- 2023-2027 - Arizona College of Osteopathic Medicine, Midwestern University, Glendale, Arizona

2021-2022 Tanya Krassimirov Kiriazov – Undergraduate Research Intern from University of Arizona – North Campus.

2010-2021 Rachel Rowe, PhD – postdoctoral co-mentor at University of Arizona – *Endocrine disruption after diffuse TBI*

- Bisgrove Scholar
- Research assistant professor at University of Arizona College of Medicine – Phoenix
- Current: Research Associate Professor at University of Colorado- Boulder

2019-2020 Andrew Condon - International Undergraduate Internship from University of Bath, England. *Pathology of HPA axis at 7 days post-brain injury in male and female rats*

- Primary Mentor
- Got into medical school but deferred it due to familial obligations

2018-2019 Emily Connell, PhD - International Undergraduate Internship from University of Bath, England. *Electrochemical recordings of oxygen consumption in diffuse brain-injured circuits*

- Primary Mentor
- 2020-2025 University of East Anglia – Graduate School (PhD)
- Current: Postdoc

2018-2019 Samantha Ridgway, MS, PhD – Graduate Student – Arizona State University - *Experimental injury, coupled with post-injury chronic stress, will drive sex-dependent effects on neuroinflammation in the hypothalamus, augmenting dysregulation in the HPA axis.*

- Master's thesis committee - Advisor and committee chair

- Current: Science Education PhD Student, Joint Program in Mathematics and Science Education, San Diego State University and University of California, San Diego
- Post-doc Clemson

2017 Zoe Swann, PhD – Undergraduate Research Intern from Oberlin College, Ohio
Experimental diffuse brain injury influences sex and aging-with-injury dependent changes in corticosterone.

- 2019-2022 Arizona State University – PhD Candidate
- Current – Clinical Research Project Manager – University of Leicester

2017 Raushun Kirtikar – Basis High School, Scottsdale – Senior Research Project and Research Assistant. *Inhibition of synaptogenesis after experimental diffuse traumatic brain injury.*

- Current: MD/MPH Candidate at Oregon Health and Science University

2017-2018 Yerin Hur, MD – Undergraduate Arizona State University – Barrett Scholar
Pathology of the central and basolateral nucleus of the amygdala after diffuse TBI

- Lab technician in Dept. of Child Health at University of Arizona
- Medical School - University of Arizona College of Medicine - Phoenix

2015-2016 Alex Fyans - International Internship from University of Bath, England
Synaptic quantification in diffuse TBI

- UK Research and Innovation

2015-2018 Joshua Beitchman, MBS, MD – Midwestern University-Master's in Biomedical Science.
Glutamate neurotransmission in the amygdala after diffuse TBI

- Master's thesis committee - Advisor and committee chair
- Midwestern University Best Dissertation 2017
- Medical Student at University of Texas, San Antonio
- Current: Resident at University of Texas, Dallas

2015-2017 Kasyap Kondury – Basis High School – Chandler – Senior Research Project– *Synaptogenesis after diffuse TBI*

- Arizona State University Tempe, Arizona

2015-2018 Mahir Qureshi – Undergraduate research volunteer (ASU), Barrett Scholar – *Skelton analysis of microglia*

- Medical School at Cooper Medical School of Rowen University
- Resident Physician Cooper University Health Care

2015-2016 Rohith Malladi – Basis High School student– Scottsdale – Senior Research Project - *Synaptogenesis after diffuse TBI*

- Current: Arizona State University Tempe, Arizona

2015-2016 Samdeet Khan – Basis High School student– Chandler – Senior Research Project - *Synaptic quantification in diffuse TBI*

- Current: Arizona State University Tempe, Arizona
- MSDS Student at Brown University

2015-2016 Tasha Parekh – Basis High School student– Chandler – *Mouse aggression*

2014-2015 Arjun Ganesh, MD – Basis High School student– Chandler – Senior Research Project – *arc gene activation in the hippocampus*
- 2015-2019 College at Drexel University
- Clinical Research Coordinator – Mayo Clinic

2015-2016 Anjali Vivek – Basis High School student – Scottsdale – *Immunohistochemisty*
- 2016-2020 Neuroscience and Cognitive Science, Neurobiology – University of Arizona
- 2021-2025 Creighton Medical School

2014-2015 Elizabeth Peck, DVM – Southwest Association for Education in Biomedical Research essay winner from Xavier High School – Intern – *Activated astrocytes in the amygdala after diffuse TBI*
- College at Tulane University
- DVM candidate at St. George's University
- Banfield Pet Hospital

2014-2019 Sarah Ogle, DO, MS – Resident Intern Fellowship in collaboration with Banner Good Samaritan Hospital and Phoenix Integrated Surgical Residency Program - *Synaptogenesis as a key element in circuit disruption after diffuse TBI*
- Master's thesis committee - Advisor and committee chair
- 2015 recipient of the Women in Neurotrauma Research award at the National Neurotrauma Symposium for poster content and presentation.
- 1st Place Poster Presentation and Oral Presentation American College of Surgeons - Committee on Trauma, Arizona Chapter Conference, Arizona Trauma & Acute Care Consortium
- Surgical Fellowship, Children's Hospital of Colorado, Pediatric Bariatric/MIS Aurora, CO
- Attending, Private Practice – Salt Lake City, Utah

2014-2015 Hazel May, PhD – Undergraduate International Internship from University of Bath, England - *Synaptogenesis as a pivotal component of circuit reorganization that leads to chronic morbidity after TBI*
- 2015 recipient of the Best Student Poster Presentation at Phoenix Children's Hospital's Annual Research Day
- PhD, Blast Brain Injury, Imperial University, London, United Kingdom

2012-2015 Aida Khodadad, MS, JD – Joint Master in Neuroscience Program at the Universities of Strasbourg, Basel and Freiburg (http://neuromaster.u-strasbg.fr/JMN01homepage.html) - *Arc expression as a molecular indicator of circuit reorganization*
- Master's thesis committee - Advisor and committee chair
- Current: Patent Manager – Johnson and Johnson Silicon Valley
- Mitchell Hamline School of Law 2021-2024

2013-2016 Jessica Flores – Undergraduate student – Arizona State University – *BDNF protein expression in the amygdala*
- Current: Arizona State University, Tempe, Arizona

2014-2016 Taylor Colburn – Undergraduate Volunteer Research Assistant – *The influence of anesthesia type on in vivo electrochemical detection of glutamate*
- Current- PhD program at Arizona State University Tempe, Arizona

2013-2014 Ben Rumney, PhD – International Internship from University of Bath, England - *Changes in neuron morphology following TBI*

- 2014 National Neurotrauma Symposium Travel Award
- PhD – Cardiff University, England
- Postdoc – Cardiff University/Prifysgol Caerdydd
- Advanced Research Assistant - Sanger

2013-2014 Kelsey Korp, PA – Volunteer Research Assistant – *Gene expression of synaptogenic molecules after diffuse TBI*

2012-2013 Eric Casella, MD – Volunteer Research Assistant (pre-med) – *Hippocampal neuron morphology after focal injury in juvenile rats.*

- Current: UQ Ochsner School of Medicine, Queensland, Australia

2011-2012 Lindsey Smith, R.Ph, Pharm.D – Honors undergraduate from University of Kentucky – *Gene expression of synaptogenic molecules after diffuse TBI*

- Pharmacy Resident at Indianapolis VA Medical Center
- Clinical Pharmacist – Robley Rex VA Medical Center

2011-2012 Travis Spaulding, MD – Honors undergraduate from University of Kentucky - *Gene expression of synaptogenic molecules after diffuse TBI*

- Residency at Vanderbilt University Medical Center, Nashville, TN
- Norton Health Care

2010 Kate Gardiner – Paul Laurence Dunbar High School; Experience-Based Career Education Program; 6-week rotation

- Current: Nurse - traveling

2009 Hadia Jadoon, MS – Undergraduate from University of Kentucky, Summer Outreach

- Current: Health Service Administration and Management

2005-2008 Shima Dowla Anwar, MD, PhD – Dunbar High School student – *In vivo glutamate neurotransmission in transgenic mice and after brain injury*

- Undergraduate from Dartmouth College, summer rotation
- MD, PhD program at University of Alabama, Birmingham
- Current: Resident Physician at Harvard Medical School, Children's Hospital

2006-2007 Kent Robinson, DO – BIO 395 student

2005 Britain Ingram – Undergraduate student

- Current: Educational Consultant/CEO at Sankofa Educational Consulting

2004 Ashley Kinnard – Undergraduate student

2003-2005 Priya Shastri – Undergraduate student

- Current: Manager, DaVita, Denver, CO

2002 B. Matthew Joyce, PhD – Integrated Biomedical Sciences graduate student

- Field Medical Advisor, Biomedicines Medical Liaison at Eli Lilly and Company
- Executive Director, Neuroscience Medical Science Liaisons at Eli Lilly

2000-2002 Matthew S. Purdom, MD – medical student – technical training

- Current: Assistant Professor of Pathology and Laboratory Medicine at University of Kentucky