

Bruce Alexander Citron

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Education:

Dec. 19, 1982	Univ. of Iowa, Iowa City, Ia.	Ph.D. Genetics
May 30, 1976	Colgate Univ., Hamilton, N.Y.	B.A. Chemistry & Biology

Research:

Nov. 2018-Present	Professor	Pharmacology, Physiology & Neuroscience, Rutgers- NJMS
Sept. 2017-Present	Director	Laboratory of Molecular Biology, VA New Jersey HCS
Aug. 2011-Nov. 2018	Professor	Dept. of Molecular Medicine, USF Morsani Coll. of Med.
Dec. 2003-Sept. 2017	Director	Laboratory of Molecular Biology, Bay Pines VAHCS
March 2004-Aug. 2011	Associate Professor	Dept. of Molecular Medicine, U. South Florida Coll. of Med.
Aug. 2004-2008	Member	H. Lee Moffitt Cancer Center & Research Institute
March 2006-Aug. 2007	Acting Director, HRRP &	Clinical Research Support & Compliance Section, BPVAHCS
Oct. 2001-Dec. 2003	Director	Molecular Biology Research Laboratory, KCVAMC
July 2002-Dec. 2003	Associate Professor	Dept. of Neurology, Univ. of Kansas Med. Ctr.
Apr. 1994-2002	Assoc. Dir.	Neurobiology Res. Lab, VAMC, Kansas City
Sept. 1994-2002	Assistant Professor	Dept. of Neurology, Univ. of Kansas Med. Ctr.
June 1985-Aug. 1993	Molecular Biologist	Term Apt., Laboratory of Neurochemistry, NIMH, NIH
Nov. 1982-June 1985	Postdoctoral Fellow	Dr. James Darnell, Rockefeller Univ.
Sept. 1976-Oct. 1982	Graduate Student	Dr. John Donelson, Univ. of Iowa
June-Aug. 1976	Research Chemist	Dr. Don Court, Lab Mol. Biol., NCI, NIH
June-Aug. 1975	Undergraduate	Dr. Don Court, Lab Mol. Biol., NCI, NIH
January 1975	Colgate Career Expl. Proj.	Dr. Don Court, Lab Mol. Biol., NCI, NIH
Sept. 1975-May 1976	Research Asst.	Dr. Fred Weyter, Biol.Dept., Colgate Univ.

Research Grants Received:

PI, SDR: Genomic analysis of blast tube induced TBI in mice
VA BLR&D Merit Review I01BX005015, \$1,853,683 2020-2024
After single blast TBI exposure, analyze the strain differences in TBI neurodegeneration, cognitive performance, and recovery. Patterns of recovery specifically from blast-induced TBI remain incompletely understood. It is likely that differential gene expression plays a significant role and will provide important information about the highly variable deficits and recovery from blast-induced TBI.

Primary Mentor (Vedad Delic, PI) Exercise and pharmacological LRRK2 inhibition for preventing PD
VA Career Development Award-2 IK2 RX003253, \$1,015,239 2020-2025
Test the therapeutic potential for exercise and/or LRRK2 inhibition to delay TBI-induced PD progression.

Co-Investigator (Kevin Beck, PI) CMA: Traumatic brain injury-induced inflammation effects on cognitive evaluations and response inhibition: mechanisms of increased risk for suicidality
VA BLR&D Merit Review I01BX004561, \$1,625,610 2019-2023
Determine the effects of fluid percussion TBI on impulsivity, gene expression and brain activation in rats.

PI, Preventing TBI-Induced Chronic Functional Loss with a Neuroprotective Antioxidant
VA RR&D Merit Review I01RX001520, \$1,312,000 2014-2020 (Cost extension)
Investigate the effects of closed head traumatic brain injury on chronic neurodegeneration and test treatments for long-term effects.

PI, Neurodegenerative changes after exposure to Gulf War insults
DOD CDMRP Investigator Initiated Research Award GW150071, \$544,500 2016-2019
Identify neurodegenerative pathway changes within the brain and spinal cord in response to a combined Gulf War toxin insult.

- PI, ShEEP Request for Confocal Microscope System
VA ORD Shared Equipment Evaluation Program IS1BX004383, \$561,275 2019
Greatly enhance our research capabilities with a high resolution laser scanning confocal microscope
- PI, LAMb Request for Ventilated Cage System and Rack Washer
VA ORD Laboratory Animal Major Equipment Program IS1BX003562, \$334,442 2016
Improve the capabilities of the veterinary medical unit at the Bay Pines VA Healthcare System
- PI, Preventing oxidative neurodegeneration after traumatic brain injury
Florida Department of Health, James & Esther King Biomedical Research Program 4KB14, \$400,000 2014-2015
Study the acute effects of second hand smoke exposure on TBI induced neurodegeneration.
- PI, Early Gene Triggers of Neurodegeneration
VA BLR&D Merit Review, \$1,110,800 2007-2010
Study transcription factor involvement in a mouse model of motor neuron disease.
- Mentor, Jessica Chang, PI, Antioxidant Transcription Factor Regulation and Alzheimer's Disease
James & Esther King Biomedical Postdoctoral Fellowship 1KD02, \$183,713 July 2010-June 2013
Investigate the effects of upregulating Nrf2 signaling in Alzheimer's *in vivo* and *in vitro* models.
- Co-Investigator (Lynn Wecker, PI) Neuronal nicotinic receptor modulation and cerebellar ataxias
NIH NINDS R01 NS072114, \$1,361,650 2010-2015
Identify cellular and molecular targets and mechanisms useful to treat muscle coordination and balance disorders.
- Co-PI, Anti-apoptotic Effects of Nicotinic Agonists
USF Neuroscience Collaborative HSC-10009-61, \$50,000 for USF Component, July 2010-June 2012
Pilot experiments to test compounds that could be useful to improve neuronal health.
- Mentor, New Investigator Grant, Valentina Echeverria PI, Role of cRaf-1/ERK pathway on cotinine neurotoxicity
James and Esther King program, Florida Dept. of Health, \$125,000 2007-2008
- Co-Investigator, Cell Signaling Factors as Therapeutic Targets in Alzheimer's Disease
Byrd Alzheimer's Institute, \$60,000, 2007-2008
- PI, Early Gene Triggers of Neurodegeneration
VA Merit Review, \$497,800 2001-2004
- PI, Regulation of transglutaminase expression and its substrates in AD neurodegeneration
Alzheimer's Association Ronald and Nancy Reagan Research Institute Award, \$239,910 2002-2005
- Co-Investigator, Injury, neuronal hypoxia and thrombin signaling: Adaptation or death?
VA Merit Review, \$736,100 2003-2008
- Co-Investigator, Functional recovery by minocycline and its mechanism in acute spinal cord injury
Christopher Reeve Paralysis Foundation, \$150,000, 2003-2004
- Associate Investigator, Inclusion Body Formation in Parkinson's and Related Diseases
VA Merit Review, 2000-2004
- Co-Investigator, Spheroid and Conglomerate Formation in ALS: Transglutaminase and motor neuron cell death
ALS Association, 2001-2004
- Co-Study Director, Use of Recombinant Human Thrombomodulin (Solulin™) in Rat Spinal Cord Injury.
Paion, GmbH, 2001
- PI, Spinal Cord Injury in a Dish to Identify Targets for Treatment
Midwest Biomedical Research Foundation, 1998-1999
- Molecular Biology Section, Mechanisms Underlying Apoptosis After Spinal Cord Injury
Christopher Reeve Paralysis Foundation, 1999-2001
- Co-investigator, Lethal Weapons: Mechanism and Role of Protein Aggregation In AD
Missouri Alzheimer's Disease and Related Disorders Board, 2000-2002
- Co-Investigator, Apoptosis and Imaginative Approaches to Limiting it, in Spinal Cord Injury
Lied Endowed Basic Science Research Award, 2000-2002
- PI, Tissue Culture Model for Spinal Cord Injury
Univ. of Kansas Medical Center Research Institute 1997

Co-PI, Spinal Cord Injury
American Paralysis Society, 1996

Associate Investigator, Cell Death Mechanisms in Spinal Cord Injury
VA Merit Review, 1997-2002

Core Proposal, Research Equipment Award for Molecular Dynamics Storm 860 Fluorescent/Phosphor Imager
Veterans Affairs Medical Center Central Office, 1998

Editorial Boards:

American Journal of Alzheimer's Disease and Other Dementias, 2005-
Associate Editor, BMC Neuroscience- section on Neurobiology of Disease, 2017-
Associate Editor, Journal of Alzheimer's Disease, 2021-

Mentoring:

I have hosted and mentored over 80 individuals over the last few decades. These have included mentees at all levels from high school students to M.D.s and Ph.D.s. Recent examples include David J. Eve, Ph.D., (now an Instructor at Neurosurgery and the Center of Excellence for Aging and Brain Repair, University of South Florida College of Medicine; Assoc. Editor, Cell Transplantation), Haris Hatic, a USF Honors Undergraduate (and awardee at the 2010 USF Undergrad. Res. Symp.- left for Medical School Aug. 2012). During 2010 I mentored 1 postdoctoral fellow (Jessica Chang), 1 graduate student (Carrie Butler), 1 masters student (Vedad Delic), and 3 undergraduate students (Haris Hatic, Dylan Hodill, and Savan Shah (Emory U.)). I served on several Ph.D. Committees and as an external examiner for two Indian Institute of Science, Bangalore, Ph.D. candidates.

While at NIH in the 80s, I founded the Colgate University NIH Off Campus Study Group which still provides research opportunities to about 15 undergraduate students in NIH research labs for a semester every year.

Teaching:

Spring 2019- Systems Neuroscience (CBNP 5033Q, Kevin Beck, Kevin Pang, Directors), Rutgers- NJMS
Spring 2010, 2011 Biomedical Genomics and Genetics (BCH6411, George Blanck, Director), USF
Spring 2010 Guest Lecturer, Special Topics in Aging and Alzheimer's Disease (Ronald Mervis, Director), USF
2004-present Founder and Director, Bay Pines VA Research Journal Club
Fall 2002 Molecular Mechanisms of Neurological Diseases (PHSL 850), Univ. of Kansas Medical Center

Teaching Assistantships:

Fall 1979 Biochemistry for Dental and Pharmacy Students, Univ. of Iowa
Spr. 1978 Experimental Biochemistry, Univ. of Iowa
1972-1976 Computer Training and Tutor, DecSystem 10, Colgate Univ. Computer Center

Committee Service:

2020-present Chair, Institutional Animal Care and Use Committee, VA New Jersey Health Care System
2018-present Scientific Mentoring and Review Team (SMaRT), VA New Jersey Health Care System R&D
2018-present Research & Development Committee, VA New Jersey Health Care System
2018-2020 Institutional Animal Care and Use Committee, VA New Jersey Health Care System
2004-2017 Research & Development Committee, Bay Pines VA Healthcare System
2010-2017 Chair, Research Safety Subcommittee, Bay Pines VA Medical Center
2008-2010 Animal Studies Subcommittee, Bay Pines VA Healthcare System
Dec. 2009 Strategic Planning Retreat, Department of Molecular Medicine, USF
2008 Associate Chief of Staff for Research Search Committee, Bay Pines VA Healthcare System
2004-2010 Research Safety Subcommittee, Bay Pines VA Medical Center
1999-2003 Institutional Animal Care and Use Committee, University of Kansas Medical Center
1995-2003 Animal Studies Subcommittee, Kansas City VA Medical Center
1979-1980 Univ. of Iowa Genetics Program Admissions Committee
1975-1976 Chairman, Colgate Univ. Chemistry Department Safety Committee

Memberships:

2004-present American Aging Association
 1975-present American Association for the Advancement of Science
 2008-present American Society for Biochemistry and Molecular Biology
 2014-present American Society for Neural Therapy and Repair
 1985-present Genetics Society of America
 2008-present International Society to Advance Alzheimer's Research and Treatment
 2016-present National Neurotrauma Society
 1995-present Society for Neuroscience
 1974-1976 President, Colgate University Biology Club

Invited Services:Review Panels:

2020 Chair, DOD CDMRP Gulf War Illness Research Program Review Panel
 2020 Member, VA Shared Equipment Evaluation Program Review Panel
 2019 Member, DOD CDMRP Peer Reviewed Alzheimer's Research Program Panel
 2019 Member, VA RR&D SPiRE Review Group
 2018 Chair, Uniformed Svcs. Univ.-Center for Neuroscience & Regenerative Medicine Review Panel
 2018 Reviewer, NIOSH Health Effects Laboratory Division Intramural Research
 2017-present Member, DOD CDMRP Gulf War Illness Investigator-Initiated Focused Research Panel
 2016-2019 Member, Federal Advisory Committee Brain Injury: TBI and Stroke
 2014-2019 Member, VA RR&D Brain Injury: TBI & Stroke Review Panel
 2007-present Member, Alzheimer's Association Research Grant Review Panel
 Dec. 2008 Member, VA Center of Excellence & Research Enhancement Advisory Program Review Panel
 2006-2010 Member, Texas Advanced Research Program Molecular Biology and Genetics Review Panel
 Int'l Review: Association Française contre les Myopathies, Evry, France
 Israel Science Foundation, Jerusalem, Israel
 German Research Foundation, Bonn, Germany
 Medical Research Council, United Kingdom
 Swiss National Science Foundation, Bern

Ad hoc reviewer:

Alzheimer's & Dementia, Amino Acids, Behavioural Brain Research, Biological Psychiatry, Biotechnology and Applied Biochemistry, BMC Neuroscience, Brain Research, British Journal of Pharmacology, Cells, Cellular and Molecular Neurobiology, Chemico-Biological Interactions, Experimental Neurology, Expert Opinion on Investigational Drugs, Free Radical Biology and Medicine, Future Neurology, International Journal of Developmental Neuroscience, International Journal of Experimental Pathology, International Journal of Molecular Sciences, Medical Hypotheses, Neurobiology of Aging, Neurobiology of Disease, Neurochemistry International, Neuropsychiatric Disease and Treatment, Neuroscience, Neuroscience Letters, NeuroToxicology, PLOS One, Radiation Research, and the *Journals of Biochemistry*, Cellular Biochemistry, Comparative Neurology, Inflammation Research, Molecular Medicine, Neuroscience, Neurochemistry, Neuroscience Methods, and Neurotrauma (36 journals), and Bentham Books.

Edited Book:

Festoff, B. W., Hantai, D., and Citron, B. A., Editors,
 The Synapse in Development, Plasticity and Disease.
 Advances in Organ Biology, (E. Edward Bittar, Series Ed.), JAI Press, Greenwich, CT, 1996.

Reviews:

Encyclopedia of Movement Disorders- Caspases and Neuronal Cell Death
 Recent Patents on CNS Drug Discovery- Transcription Factors as Therapeutic Targets in CNS Disorders

Conference Activities:

Invited speaker: Transcription factor modulation & traumatic brain injury, U of Kentucky, Lexington, Oct. 7, 2019

Invited participant: VA Field Research Meeting, Neurobiology of TBI and Suicidality, 2018

Nanosymposium Chair: Brain Injury: From Animal Models to Physiology, Behavior, and Treatments, Society for Neuroscience Annual Meeting, San Diego, Nov. 7, 2018

Invited speaker (two talks): 1. "Nrf2 activator, improved cognitive performance following mTBI" and 2. "The role of thrombin receptors in the brain in health and disease" for the 9th Annual Clinical Neurology & Neurophysiology Conference, Jerusalem, Israel, Feb. 17-19, 2013

Chair Session 4-Track 6: Anti-Neurodegenerative Drug Discovery & Development- Major Neural Diseases: Epilepsy, Multiple Sclerosis, Amyotrophic Lateral Sclerosis Drug Discovery and platform presentation: "Inflammatory Transcription Factor Pathways and CNS Disorders" for the 1st Annual World Congress-NeuroTalk 2010: From Nervous Functions to Treatment, Singapore, June 27, 2010

Symposium 10 Chair: The roles of protease-activated receptors in neurodegeneration and platform presentation: "Expression of protease activated receptors (PARS) in the spinal cord during development, after injury and neurodegeneration" for the 14th Biennial Meeting International Society for Developmental Neuroscience, Sydney, Australia, Feb. 3, 2002

Invited speaker: "Expression and Regulation of PARs In Brain and Spinal Cord" for Role of Protease-Activated Receptors in Neural Development, Degeneration and Trauma session, American Society for Neurochemistry Annual Meeting, Palm Beach, FL, 2002

Invited speaker: Molecular biology of aromatic amino acid hydroxylation for Molecular Mechanisms of Enzyme Action, 16th International Congress of Biochemistry Satellite Symposium, Bangalore, India, Sept. 24, 1994

Courses attended:

The Neurobiology of Traumatic Brain Injury, Society for Neuroscience Neurobiology of Disease Workshop, Nov. 14, 2008

Vectors and RNA Interference for Neuroscience Applications, Soc. for Neuroscience Short Course, Nov. 11, 2005

Supervisor Training (24 hours) VA VISN 15, 2003

Bioinformatics 2002: A neuroscientist's guide to tools and techniques for mining and refining massive data sets, Society for Neuroscience Short Course, Nov. 2, 2002

Cell Death: Apoptosis and beyond, Society for Neuroscience Short Course, Nov. 10, 2001

DNA Microarrays: The new frontier in gene discovery and gene expression analysis, Society for Neuroscience Short Course, Nov. 4, 2000

Quantitative Neuroanatomy, Society for Neuroscience Short Course, Nov. 7, 1998

Using Animals in Intramural Research, NIH and MTM Associates, Oct. 1989

Publications

1. Ratliff, W. A., Saykally, J. N., Keeley, K. L., Driscoll, D. C., Murray, K. E., Okuka, M., Mervis, R. F., Delic, V., and Citron, B. A.,
Sidestream smoke affects dendritic complexity and astrocytes after model mild closed head traumatic brain injury.
Cell Mol. Neurobiol. *In press* (2021).
2. Delic, V., Ratliff, W. A., Citron, B. A.,
Sleep deprivation, a link between post-traumatic stress disorder and Alzheimer's Disease.
J. Alz. Dis. 79:1443-9 (2021).
3. Ratliff, W. A., Delic, V., Pick, C. G., and Citron, B. A.,
Dendritic arbor complexity and spine density changes after repetitive mild traumatic brain injury and neuroprotective treatments.
Brain Res. 1746:147019 (2020).
4. Ratliff, W. A., Qubty, D., Delic, V., Pick, C. G., and Citron, B. A.,
Repetitive mild traumatic brain injury and transcription factor modulation.
J. Neurotrauma 37:1910-7 (2020).
5. Delic, V., Beck, K. D., Pang, K. C. H., and Citron, B. A.,
Biological links between traumatic brain injury and Parkinson's disease.
Acta Neuropathol. Commun. 8:45 (2020).
6. Ratliff, W. A., Mervis, R. F., Citron, B. A., Schwartz, B., Rubovitch, V., Schreiber, S., Pick, C. G.,
Effect of mild blast-induced TBI on dendritic architecture of the cortex and hippocampus in the mouse.
Sci. Rep. 10:2206 (2020).
7. Ratliff, W. A., Saykally, J. N., Mervis, R. F., Lin, X., Cao, C., and Citron, B. A.,
Behavior, protein, and dendritic changes after model TBI and treatment with Nanocoffee particles.
BMC Neurosci 20:44 (2019).
8. Ratliff, W. A., Mervis, R. F., Citron, B. A., Schwartz, B., Rubovitch, V., Schreiber, S., Pick, C. G.,
Mild blast-related TBI in a mouse model alters amygdalar neurostructure and circuitry.
Exp. Neurology 315:9-14 (2019).
9. Festoff, B. W. and Citron, B. A.,
Thrombin and the *Coag-Inflammatory Nexus* in Neurotrauma, ALS and other Neurodegenerative Disorders.
Frontiers in Neurology 10:59 (2019). <_Biosketch>
10. Maggio, N., Rubovitch, V., Hoffer, B. J., Citron, B. A., Greig, N. H., Pick, C. G.,
Neuronal hyperexcitability following mTBI: Cellular molecular mechanisms and therapeutical implications.
Neurosensory Disorders in Mild Traumatic Brain Injury 67-81 (2019).
11. Ratliff, W.A., Saykally, J. N., Kane, M. J., and Citron, B. A.,
Neuromuscular junction morphology & gene dysregulation in the wobbler model of spinal neurodegeneration.
J. Mol. Neurosci. 66:114-20 (2018).
12. Saykally, J. N., Ratliff, W. A., Keeley, K. L., Pick, C. G., Mervis, R. F., and Citron, B. A.,
Repetitive mild closed head injury alters protein expression and dendritic complexity in a mouse model.
J. Neurotrauma 35:139-48 (2018). <_Biosketch>
13. Rachmany, L., Tweedie, D., Rubovitch, V., Li, Y., Holloway, H. W., Kim, D. S., Ratliff, W. A., Saykally, J. N., Citron, B. A., Hoffer, B. J., Greig, N. H., Pick, C. G.,
Exendin-4 attenuates blast traumatic brain injury induced cognitive impairments, losses of synaptophysin and in vitro TBI-induced hippocampal cellular degeneration.
Sci. Rep. 7(3735):1-13 (2017).

14. Saykally, J. N., Hatic, H., Keeley, K. L., Jain, S. C., Ravindranath, V. R., and Citron, B. A., *Withania somnifera* extract protects model neurons from *in vitro* traumatic injury. *Cell Transplant.* 26:1193-201 (2017).
15. Citron, B. A., Ameenuddin, S., Uchida, K., Suo, W. Z., SantaCruz, K., and Festoff, B. W., Membrane lipid peroxidation in neurodegeneration: Role of thrombin and proteinase-activated receptor-1. *Brain Res.* 1643:10-7 (2016).
16. Alemi, F., Levy, C., Citron, B. A., Williams, A. R., Pracht, E., Williams, A. E., Improving prognostic web calculators: Violation of preferential risk independence. *J. Palliat. Med.* 19:1325-30 (2016).
17. Citron, B. A., Caspases and neurodegeneration. *Reference Module in Neuroscience and Biobehavioral Psychology* 1(513):1-5 (2016).
18. Citron, B. A., Saykally, J. N., Cao, C., Dennis, J. S., Runfeldt, M., and Arendash, G. W., Transcription factor Sp1 inhibition, memory, and cytokines in a mouse model of Alzheimer's disease. *Am. J. Neurodegen. Dis.* 4:40-8 (2015). <_Biosketch>
19. Lloyd, M. C., Burke, N., Kalantapour, F., Niesen, M. I., Hall, A., Pennypacker, K., Citron, B. A., Pick, C. G., Adams, V., Das, M., Mohapatra, S., Cualing, H., and Blanck, G., Quantitative morphological & molecular pathology of the human thymus correlate with infant cause of death. *Technol. Innov.* 16:55-62 (2014).
20. Kheirbek, R. E., Alemi, F., Citron, B. A., Afaq, M. A., Wu, H., and Fletcher, R. D., Trajectory of Illness for Patients with Congestive Heart Failure. *J. Palliat. Med.* 5:478-84 (2013).
21. Saykally, J. N., Rachmany, L., Hatic, H., Shaer, A., Rubovitch, V., Pick, C. G., and Citron, B. A., The Nrf2 Activator, tert-Butylhydroquinone (tBHQ), Improves Cognitive Performance in Mice after Mild Traumatic Brain Injury. *Neuroscience* 223:305-14 (2012). <_Biosketch>
22. Hatic, H., Kane, M. J., Saykally, J. N., and Citron, B. A., Modulation of Transcription Factor Nrf2 in an In Vitro Model of Traumatic Brain Injury. *J. Neurotrauma* 29:1188-96 (2012).
23. Kane, M. J., Hatic, H., Delic, V., Dennis, J. S., Butler, C. L., Saykally, J. N., and Citron, B. A., Modeling the pathobiology of repetitive traumatic brain injury in immortalized neuronal cell lines. *Brain Res.* 1425:123-31 (2011).
24. Fernandez, H. L., Smith, A., Dennis, J. S. and Citron, B. A., Calcitonin gene related peptide receptor expression in rat skeletal muscle fibers. *Brain Res.* 1371:1-6 (2011).
25. Citron, B. A., Caspases and neuronal cell death. *Encyclopedia of Movement Disorders* 1:190-3 (2010).
26. Kane, M. J. and Citron, B. A., Transcription Factors as Therapeutic Targets in CNS Disorders. *Recent Pat. CNS Drug Discov.* 4:190-9 (2009). <_Biosketch>
27. Dennis, J. S. and Citron, B. A., Wobbler mice modeling motor neuron disease display elevated Transactive Response DNA binding protein. *Neuroscience* 158:745-50 (2009). <_Biosketch>

28. Arendash, G. W., Mori, T., Cao, C., Mamcarz, M., Runfeldt, M., Dickson, A., Rezai-Zadeh, K., Tan, J., Citron, B. A., Lin, X., Echeverria, V., and Potter, H.,
Caffeine reverses cognitive impairment and decreases brain A β levels in aged Alzheimer's disease mice.
J. Alzheimers Dis. 17:661-80 (2009).
29. Citron, B. A., Arnold, P.M., Haynes, N.G., Ameenuddin, S., Farooque, M., SantaCruz, K., and Festoff, B.W.,
Neuroprotective effects of caspase-3 inhibition on functional recovery and tissue sparing following acute spinal cord injury.
Spine 33:2269-77 (2008).
30. Citron, B. A., Dennis, J. S., Zeitlin, R. S., and Echeverria, V.,
Transcription factor Sp1 dysregulation in Alzheimer's disease
J. Neurosci. Res. 86:2499-504 (2008).
31. Echeverria, V., Burgess, S., Gamble-George, J., Arendash, G. W., and Citron, B. A.,
Raf inhibition protects cortical cells against β -amyloid toxicity.
Neurosci. Lett. 444:92-6 (2008).
32. Eve, D. J., Dennis, J. S., Citron, B. A.,
Transcription factor p53 in degenerating spinal cords.
Brain Res. 1150:174-81 (2007).
33. Festoff, B. W., Ameenuddin, S., Arnold, P. M., Wong, A. A., SantaCruz, K. S., and Citron, B. A.,
Minocycline neuroprotects, reduces microgliosis, and inhibits caspase protease expression early after spinal cord injury.
J. Neurochem. 97:1314-26 (2006).
34. Citron, B.A., Zoloty, J.E., Suo, Z., and Festoff, B.W.,
Tissue transglutaminase during mouse central nervous system development: Lack of alternative RNA processing and implications for its role(s) in murine models of neurotrauma and neurodegeneration
Mol. Brain Res. 135:122-33 (2005).
35. Festoff, B.W., Ameenuddin, S., SantaCruz, K., Morser, J., Suo, Z., Arnold, P.M., Stricker, K., and Citron, B.A.,
Neuroprotective effects of recombinant thrombomodulin in controlled contusion spinal cord injury implicates thrombin signaling.
J. Neurotrauma 21:907-22 (2004).
36. Suo, Z., Wu, M., Citron, B. A., Wong, G. T., and Festoff, B. W.,
Abnormality of G-protein coupled receptor kinases at prodromal and early stages of Alzheimer's disease: an association with early β -amyloid accumulation.
J. Neurosci. 24:3444-52 (2004).
37. Suo, Z., Citron, B. A., and Festoff, B. W.,
Thrombin: A potential proinflammatory mediator in neurotrauma and neurodegenerative disorders.
Curr. Drug Targets Inflamm. Allergy 3:105-14 (2004).
38. Suo, Z., Wu, M., Citron, B. A., Gao, C., Festoff, B. W.,
Persistent protease-activated receptor 4 signaling mediates thrombin-induced microglial activation.
J. Biol. Chem. 278:31177-83 (2003).
39. Suo, Z., Wu, M., Citron, B. A., Palazzo, R. E., and Festoff, B. W.,
Rapid Tau aggregation and delayed hippocampal neuronal death induced by persistent thrombin signaling.
J. Biol. Chem. 278:37681-9 (2003).
40. Festoff, B. W., Suo, Z., Citron, B. A.,
Prospects for pharmacotherapy of amyotrophic lateral sclerosis: Old Strategies and New Paradigms for the Third Millennium.
CNS Drugs 17:699-717 (2003).

41. Citron, B. A., Arnold, P. M., Ameenuddin, S., and Festoff, B. W.,
Spinal cord injury and neuronal cell death: Apoptosis and implications for future treatment.
Sem. Spinal Cord Surg. 14:182-192 (2002).
42. Citron, B. A., Suo, Z., SantaCruz, K., Davies, P. J. A., Qin, F., and Festoff, B. W.
Protein crosslinking, tissue transglutaminase, alternative splicing and neurodegeneration.
Neurochem. Int. 40:69-78 (2002).
43. Festoff, B. W., SantaCruz, K., Arnold, P. M., Sebastian, C. T., Davies, P. J., and Citron, B. A.,
Injury-induced "switch" from GTP-regulated to novel GTP-independent isoform of tissue transglutaminase in the
rat spinal cord.
J. Neurochem. 81:708-718 (2002).
44. Suo, Z., Wu, M., Ameenuddin, S., Anderson, H. E., Zoloty, J. E., Citron, B. A., Andrade-Gordon, P., and Festoff,
B. W.,
Participation of protease-activated receptor-1 in thrombin-induced microglial activation.
J. Neurochem. 80:655-666 (2002).
45. Citron, B. A., SantaCruz, K., Davies, P. J. A., and Festoff, B. W.,
Intron-exon swapping of transglutaminase mRNA and neuronal tau aggregation in Alzheimer's disease.
J. Biol. Chem. 276:3295-301 (2001).
46. Smirnova, I. V., Citron, B. A., Arnold, P. M., and Festoff, B. W.
Neuroprotective signal transduction in motor neurons exposed to thrombin: G-protein modulation effects on
neurite outgrowth, Ca²⁺ mobilization and apoptosis.
J. Neurobiol. 48:87-100 (2001).
47. Festoff, B. W., Suo, Z., and Citron, B. A.,
Plasticity and Stabilization of Neuromuscular and CNS Synapses: Interactions Between Thrombin Protease
Signaling Pathways and Tissue Transglutaminase.
Int. Rev. Cytol. 211:153-77 (2001).
48. Citron, B.A., Smirnova, I.V., Arnold, P.M., and Festoff, B.W.,
Upregulation of neurotoxic serine proteases, prothrombin and protease-activated receptor 1 early after spinal
cord injury.
J. Neurotrauma 17:1191-204, (2000).
49. Citron, B.A., Arnold, P.M., Sebastian, C., Qin, F., Malladi, S., Ameenuddin, S., Landis, M., and Festoff, B. W.,
Rapid upregulation of caspase-3 in rat spinal cord after injury: mRNA, protein and cellular localization correlates
with apoptotic cell death.
Exp. Neurol. 166:213-26, (2000).
50. Citron, B.A. , Gregory, E.J., Steigerwalt, D.S., Qin, F. and Festoff, B.W.,
Regulation of the dual function tissue transglutaminase/Gα_h during murine neuromuscular development: gene
and enzyme isoform expression.
Neurochem. Int. 37:337-49 (2000).
51. Festoff, B.W., D'Andrea, M., Salcedo, R., Zoubine, M.N., Smirnova, I.V., Citron, B.A. and Andrade-Gordon, P.,
Motor neuron cell death in Wobbler mutant mice follows overexpression of the G-protein-coupled, protease-
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