CURRICULUM VITAE

Balachandar Kathirvelu, MBBS, PhD
The University of Texas at El Paso (UTEP)
Department of Rehabilitation Sciences

Education:

PhD
Tulane University
Behavioral Neuroscience
May 2013

MS
Tulane University
Behavioral Neuroscience
Dec 2010

MBBS
Kilpauk Medical College, Chennai, TN, INDIA
Bachelor of Medicine, Bachelor of Surgery
Jan 2002

Licensure: N/A

Certifications: N/A

Employment and Positions Held:

Clinical Assistant Professor
UTEP Department of Rehabilitation Sciences
El Paso, Texas
Jun 2019-present

Instructor of Anatomy
Central Michigan University, College of Medicine
Mt. Pleasant, Michigan
Aug 2018-May 2019

Postdoctoral Research Associate
Central Michigan University, Neuroscience Program
Mt. Pleasant, Michigan
Nov 2017-May 2019

Postdoctoral Scholar
David Geffen School of Medicine, Department of Neurology, UCLA
Los Angeles, California
2012-2017

Teaching Assistant
Neuroscience Program & Department of Psychology, Tulane University
New Orleans, Louisiana
2006-2012

Research Assistant
Department of Public Health and Preventive Medicine
Chennai, India
2004-2005

Resident Medical Officer
YR Gaitonde Centre for AIDS Research and Education (YRG CARE)
Chennai, India
2002-2004

Compulsory Rotary Resident Intern
Kilpauk Medical College
Chennai, India
2001-2004

Peer Reviewed Publications:

Ramachandran, P., **Kathirvelu, B**., Chakraborti, A., Gajendran, M., Zhahid, U., Ghanta, S., Onukogo I., Narh, JT, Wang JC., Anwer, F. **(2020).** COVID-19 in Cancer Patients From New York City: A Comparative Single Center Retrospective Analysis. **Cancer Control,** 27(1), 1073274820960457. doi:10.1177/1073274820960457

Ramachandran P, Perisetti A**, Kathirvelu B**, Gajendran M, Ghanta S, Onukogu I, Lao T, Anwer F. Low morbidity and mortality with COVID-19 in sickle cell disease: A single center experience. **ejHaem. August 2020** https://doi.org/10.1002/jha2.87

Srinageshwar B, Dils A, Sturgis J, Wedster A, **Kathirvelu B**, Baiyasi S, Swanson D, Sharma A, Dunbar GL, Rossignol J. Surface-Modified G4 PAMAM Dendrimers Cross the Blood-Brain Barrier Following Multiple Tail-Vein Injections in C57BL/6J Mice. **ACS Chem Neurosci. 2019** Sep 18;10(9):4145-4150. doi: 0.1021/acschemneuro.9b00347. Epub 2019 Aug 20.

Carmichael ST, **Kathirvelu B**, Schweppe CA, Nie EH. (2017). Molecular, cellular and functional events in axonal sprouting after stroke. **Exp Neurol. 2017** Jan; 287(Pt 3):384- 394. doi: 10.1016/j.expneurol.2016.02.007.

Kathirvelu, B., & Carmichael, S. T. (2015). Intracerebral hemorrhage in mouse models: therapeutic interventions and functional recovery. **Metab Brain Dis. 2015** Apr; 30(2):449- 59. doi: 10.1007/s11011-014-9559-7.

Kathirvelu, B., & Colombo, P. J. (2013). Effects of lentivirus-mediated CREB expression in the dorsolateral striatum: memory enhancement and evidence for

competitive and cooperative interactions with the hippocampus. **Hippocampus,** 23(11), 1066-1074. doi: 10.1002/hipo.22188

Kathirvelu, B., East, B. S., Hill, A. R., Smith, C. A., & Colombo, P. J. (2013). Lentivirusmediated chronic expression of dominant-negative CREB in the dorsal hippocampus impairs memory for place learning and contextual fear conditioning. **Neurobiol Learn Mem**, 99, 10-16. doi: 10.1016/j.nlm.2012.10.008

Peer Reviewed Scientific and Professional Presentations:

S. Koneru, **B. Kathirvelu**, B. Macdonald, D. Eldred, M. Resk, N. Fettinger, M. I. Sandstrom, U. Hochgeschwender, P. Maiti, J. Rossignol, G. L. Dunbar
Comparison of Ovine and Bovine sources of GM1 Ganglioside as a treatment for Huntington's disease in YAC128 mice model.
Society for Neuroscience. Chicago, IL
2019

M. Fana, N. Munro, B. Srinageshwar, **B.Kathirvelu**, D. Swanson, G. L. Dunbar, A. sharma, J. Rossignol
Potential application of the novel dendrimer-cystamine-curcumin nanoparticle technology for treatment of glioblastoma
Society for Neuroscience, San Diego
2018

N. Munro, B. Srinageshwar, M. Fana, C. Malkowski, S. Climie, **B. Kathirvelu**, D. Swanson, A. Sharma, G. Dunbar, J. Rossignol
Therapeutic effect of curcumin entrapped dendrimer nanoparticles on a mouse model of glioblastoma
Society for Neuroscience, San Diego
2018

B. Kathirvelu, D.E. Kochli, G. S. Hill, P. J. Colombo
Lentivirus overexpression of CREB in the dorsolateral striatum facilitates long-term memory for cue learning and contextual fear conditioning: Evidence for a cooperative interaction between the striatum and the hippocampus
Society for Neuroscience. Washington, D.C.
2011

B. S. East, Jr., **B. Kathirvelu**, D.E. Kochli, P. J. Colombo
Wasted on the young: overexpression of CREB in the hippocampus improves spatial memory in young, but not middle-aged, rats
Society for Neuroscience. Washington, D.C.
2011

M.E. Crawley, **B. Kathirvelu**, P. J. Colombo

Learning-induced increases in histone acetylation after reinforcement of place and response strategies.
Society for Neuroscience. Washington, D.C.
2011

B. Kathirvelu, B. S. East, Jr., A. R. Hill, C. A. Smith, P. J. Colombo
Lentivirus overexpression of mutant CREB in the dorsal hippocampus impairs longterm memory retention of place learning and contextual fear conditioning
Poster presented at the 40th Annual meeting of the Society for Neuroscience, San Diego.
2010

B. Kathirvelu, M. E. Crawley, l. F. Foster, M. A. Musselman, P. J. Colombo
Regional CREB phosphorylation is related to place and response learning and consistent with competition between hippocampus and dorsal striatum during memory formation
Poster presented at the 39th Annual meeting of the Society for Neuroscience, Chicago.
2009

B. Kathirvelu, C.A. Smith, & P.J. Colombo
Socially transmitted food preference (STFP) learning-associated changes in the levels of phosphorylated T286 Calcium/ Calmodulin-dependent protein kinase-II (pT286 CaMKII) in the hippocampal formation
Poster presented at the 37th Annual meeting of the Society for Neuroscience, San Diego.
2007

Funded/In Review Grant Activity: N/A

Current/Active Research Activity: N/A

Membership in Scientific/Professional Organizations:

Society for Neuroscience
2007

Medical Council of India
2002
Certified and registered to practice medicine in India

Consultative and Advisory Positions Held: N/A

Community Service: N/A

Services to the University/College/Program on Committees/Councils /Commissions: N/A

Honors and Awards:

Graduate Teaching Assistantship and Research fellowship
Graduate School, Tulane University
2006-2012

Travel Award
School of Science and Engineering Dean's Office
2011

Flowerree Summer Research Fellowship
Tulane University
2010

Travel Grant
Provost's Office Graduate Student
2009

Travel Award
The Graduate Student Studies Association
2009

Flowerree Summer Research Fellowship
Tulane University
2009

Travel Award
Psychology Department
2009

Flowerree Summer Research Fellowship
Tulane University
2007

Continuing Education Attended: N/A

Current Teaching Responsibilities:

Summer:
Normal Physiology/Embryology (DRSC 5301)
Pharmacology in PT (PT 6205)

Fall:
Anatomy for Health Sciences (DRSC 5495)
Pathophysiology for Health Sciences (DRSC 5388)
Physical Therapy Capstone Project I (PT 6116)

Spring:
Imaging (PT 6109)