



Dr Mahesh Kandasamy
UGC-Assistant Professor

Contact

Address : Department of Animal Science
Bharathidasan University
Tiruchirappalli – 620 024
Tamil Nadu, INDIA

Employee Number : UGC-003

Date of Birth : 05-05-1977

Contact Phone (Office) : +91 431 2407040

Contact Phone (Mobile) :

Contact e-mail(s) : pkmahesh5@gmail.com, mahesh.kandasamy@bdu.ac.in

Skype id :

Academic Qualifications:

Degree	Subject	Name of the Institute/University	Year
PhD	Natural Sciences	Department of Neurology Faculty of Natural Sciences University of Regensburg, Germany	2005-2010
MSc	Biochemistry	Department of Biochemistry and Molecular Biology, School of Life Sciences, Guindy Campus(AC Tech), University of Madras, India	1997-1999
BSc	Chemistry	Govt. Arts College, Dharmapuri University of Madras, India	1994-1997

Teaching Experience: 4 Years

**Biochemistry, Animal Physiology, Cancer Biology, Developmental Biology,
Stem cells and Tissue Engineering, Research Methodology.**

Research Experience: __15__ Years

Position	From	To	Organization
UGC-Assistant Professor	Dec 2014	Present	Department of Animal Science, School of Life Sciences, Bharathidasan University, Tiruchirappalli, Tamilnadu, India
Research Scientist	Dec 2012	Dec 2014	Molecular Genetics Laboratory, Department of Psychiatry, NIMHANS, Bangalore, India
Research Associate	June 2011	Nov 2012	Department of Neuropsychiatry Laboratory of Molecular Psychiatry, Charité University of Medicine Berlin, Germany.
Postdoc	Jan 2010	April 2011	Institute of Molecular Regenerative Medicine , Paracelsus Medical University, Salzburg, Austria.
Bavarian Research Fellow	April 2005	Dec 2009	Department of Neurology, University of Regensburg, Germany.
Junior Research Fellow	March 2002	Nov 2004	Department of Biochemistry, Indian Institute of Science (IISc), Bangalore, Karnataka, India.

Additional Responsibilities

1. Member, NIRF, IQAC

Areas of Research

Neural Stem cells, Adult Neurogenesis, Cognition

Research Supervision / Guidance

Program of Study		Completed	Ongoing
Research	Ph.D.	00	01
	M.Phil.	01	00
Project	PG	03	06
	UG / Others	-	-

Publications

International		National		Others
Journals	Conferences	Journals	Conferences	Books / Chapters / Monographs / Manuals
25	10	-	5	-

Cumulative Impact Factor (as per JCR) :	101
h-index :	17
i10 index :	17
Total Citations :	916

Funded Research Projects

Completed Projects

S. No	Agency	Period		Project Title	Budget (Rs. In lakhs)
		From	To		
1	UGC	2015	2017	UGC-FRP Start-up grant	6

Ongoing Projects

S. No	Agency	Period		Project Title	Budget (Rs. In lakhs)
		From	To		
1		2017	2021	The regulation of the hippocampal neurogenesis and cognitive functions in experimental animals	49
2		2018	2021	Neural stem cells... A non-invasive attempt for the brain regeneration	52

Consultancy Projects: None

S. No	Agency	Period		Project Title	Budget (Rs. In lakhs)
		From	To		
1					

Others

Patents

None

Distinctive Achievements / Awards

1	Bavarian Research Fellowship	Bavarian Research Foundation, Munich, Germany	2005-2009
2	Best Poster Presentation Award	German Society of Neurology Conference, Berlin, Germany.	2007
3	Researcher of the year Award	Paracelsus Medical University, Salzburg, Austria	2011
5	Outstanding Scientist Award	The Venus International Organization, Chennai	2016
4	Early Career Researcher Award	DST-SERB, India	2018

Events organized in leading roles

Number of Seminars / Conferences / Workshops / Events organized: 2

Events Participated

Conferences / Seminars / Workshops: 5

Other Training Programs

Refresher Course:

Attended a faculty refresher course in Life Science from 03.03.2016 to 23.03.2016 conducted by UGC- HRDC, Bharathidasan University, Tiruchirappalli, India

Overseas Exposure / Visits

Europe

Membership in

Professional Bodies

1. Life Member: European Huntington's Disease Network
2. Doctoral committee member: Vellore Institute of Technology (VIT)

Others: Journal ad hoc reviewer:

Oxidative Medicine and Cellular Longevity, PloS One, BMC Research Notes, Molecular and Cellular Biochemistry, Biomedical Research, Toxicology Report, Neuromolecular Medicine.

Editorial Board

1. None

Advisory Board

1. None

Academic Bodies (such as Board of Studies etc.,)

1. None

Resource persons in various capacities

Number of Invited / Special Lectures delivered: 12

1. Cellular and molecular aspects of Neurogenesis, Mahesh Kandasamy, Refresher course in Life sciences for Assist/ Assoc. Professors, UGC- Human Resource Development Centre of the University of Calicut, Malapuram, Kerala, Nov 2018.
2. Hippocampal Neurogenesis in Huntington Disease, Mahesh Kandasay, Lecture Workshop On Hands on training in Cell and Molecular Biology techniques, Department of Biochemistry, Bharathidasan University, Tiruchirappalli, March 2018
3. Is brain can regenerate, where is the proof? Mahesh Kandasamy, CME on Stem cells and Tissue Engineering meeting, Indian Medical Association Hall, Tiruchirappalli 13.09.2015.
4. Regulation and functional significance of neurogenesis in the adult brain, Mahesh Kandasamy, IISER TVM, 17.07.2015.
5. Modulation of Neural Stem cell Niches: Therapeutic Strategies for Regeneration and Repair in the Neurodegenerative Brains: Mahesh Kandasamy, Two weeks Faculty Development Programme on New perspectives in drug discovery and progressive technological developments” 2015, Department of Pharmaceutical Technology Anna University (BIT-Campus) Tiruchirappalli 11.05.2015.
6. Regenerative capacity of the adult brain: Mahesh Kandasamy, TEQIP II sponsored two weeks FDP programme on ‘Comprehensive Approach of Biotechnological Applications (CABA’15), Department of Biotechnology, Bharathidasan Institute of Technology, Anna University, Tiruchirappalli, TN, India, 17.04.2015.
7. Applications of stem cell research in CNS disorders: Mahesh Kandasamy, National Level Symposium on Innovation in Biotechnology, Arignar Anna College of Arts and Science, Krishnagiri, Tamilnadu, India, 24.10 2013.
8. Stem cells and Biomedical Engineering: Mahesh Kandasamy, CADENZA, at National Level Technical Symposium, Dhanalakshmi Srinivasan, Group of Institutions, Perambalur, Tamilnadu, India Sep 2013.

9. Neurodegenerative Diseases – Parkinson (PD), Huntington’s (HD) and Alzheimer Diseases (AD): PD: Prof. Jürgen Winkler, University Hospital Erlangen, Germany. HD: Mahesh Kandasamy, PMU, Salzburg, Austria and AD: Prof. Eliezer Masliah, University of California, San Diego, USA: at Neuroscience Club Meeting, PMU, Austria, March 2010.
10. Stem cell quiescence in the hippocampal neurogenic niche is associated with elevated TGF-beta signaling in an animal model of Huntington’s disease: Mahesh Kandasamy, 11th. Meeting of the Austrian Neuroscience Association, Salzburg, Austria, Sep 2009.
11. TGF-beta signalling in the stem cell niche of the healthy and diseased brain: Mahesh Kandasamy, Institute of Developmental Genetics, Helmholtz Institute, German Research Center for Environmental Health Munich, Germany. Dec 2008
12. Regulation of hippocampal neurogenesis and TGF-beta1 signalling in Huntington’s Disease: Mahesh Kandasamy, Biostatistics and Grant Writing for Scientists, ForNeuroCell meeting, Frauenchiemsee, Germany, Sep 2008

Others

1. Articles published in Newspapers / Magazines : 02
2. Products developed : None
3. No. of PhD Thesis evaluated : 02
4. No. of PhD Public Viva Voce Examination conducted : 01
5. Sequences submitted in GenBank: 2

Recent Publications

1. **Kandasamy M** and Aigner L. “Neuroplasticity, limbic neuroblastosis and neuro-regenerative disorders”
Neural Regen Res. 2018 Aug;13(8):1322-1326. (IF: 2.2).
2. **Kandasamy M** and Aigner L. “Reactive neuroblastosis in Huntington’s disease: A putative therapeutic target for striatal regeneration in the adult brain”
Front Cell Neurosci. 2018 Mar 9;12:37. (IF 4.3).
3. Sowmya DV, **Kandasamy M**, Vaidyanathan R, Moilya NS, Kota, LN, Adhikarla S, Yadav R, Pal PK, Jaina, S, Purushottam M. “Genetic testing for clinically suspected spinocerebellar ataxias: Report from a tertiary referral center in India”
J Genet. 2018 Mar;97(1):219-224. (IF: 0.6).

4. Sathya M, Gobinath T, Salomy S, Nisha M, **Kandasamy M**, Essa MM, Jayachandran SK, Anusuyadevi M. "Significance of biophysical interaction of resveratrol with Sirtuin pathway in Alzheimer's disease"
Front Biosci (Landmark Ed). 2018 Mar 1;23:1380-1390. (IF: 2.3).
5. Periyasamy S, Sathya M, Karthick C, **Kandasamy M**, Shanmugaapriya S, Tamilselvan J, Jayachandran KS, Anusuyadevi M. "Association studies of specific Cholesterol related genes (APOE, LPL, and CETP) with Lipid profile and memory function: A correlative study among Rural and Tribal Population of Dharmapuri District, India
J Alzheimers Dis. 2017;60(s1):S195-S207. (IF: 3.4).
6. Velusamy T, Panneerselvam SA, Purushottam M, Anusuyadevi M, Pal PK, Jain S, Essa MM, Guillemin JG, **Kandasamy M**. "Protective effects of antioxidants on neuronal dysfunction and plasticity in Huntington's disease".
Oxid Med Cell Longev. 2017;2017:3279061. (IF: 4.9).
7. Sathya M, Moorthi P, Premkumar P, **Kandasamy M**, Jayachandran K.S, Anusuyadevi M. "Resveratrol intervenes cholesterol and isoprenoids mediated amyloidogenic processing of A β PP in Familial Alzheimer's disease".
J Alzheimers Dis. 2017;60(s1):S3-S23. (IF: 3.4).
8. Lenka A, Kamble NL, Sowmya V, Jhunjhunwala K, Yadav R, Netravathi M, **Kandasamy M**, Moily NS, Purushottam M, Jain S, Kumar Pal P. "Determinants of Onset of Huntington's Disease with Behavioral Symptoms: Insight from 92 Patients"
J Huntingtons Dis. 2015;4(4):319-24. (IF: 1.5).
9. **Kandasamy M**, Roskopf M, Wagner K, Klein B, Couillard-Despres S, Reitsamer HA, Stephan M, Nguyen HP, Riess O, Bogdahn U, Winkler J, von Hörsten S, Aigner L. "Reduction in subventricular zone-derived olfactory bulb neurogenesis in a rat model of Huntington's disease is accompanied by striatal invasion of neuroblasts".
PLoS One. 2015 Feb 26;10(2):e0116069. (IF:2.7).
10. Moily NS, Kota LN, Anjanappa RM, Venugopal S, Vaidyanathan R, Pal P, Purushottam M, Jain S, **Kandasamy M**. "Trinucleotide Repeats and Haplotypes at the Huntingtin Locus in an Indian Sample Overlaps with European Haplogroup A"
PLoS Curr. 2014 Sep 24;6, (IF:4.05).
11. **Kandasamy M**, Lehner B, Kraus S, Sander PR, Marschallinger J, Rivera FJ, Trümbach D, Ueberham U, Reitsamer HA, Strauss O, Bogdahn U, Couillard-Despres S, Aigner L. "TGF-beta signalling in the adult neurogenic niche promotes stem cell quiescence as well as generation of new neurons"
J Cell Mol Med. 2014 Jul;18(7):1444-59. 2014 (IF: 4.4).
12. Dreier JP, Victorov IV, Petzold GC, Major S, Windmüller O, Fernández-Klett F, **Kandasamy M**, Dirnagl U, Priller J. "Electrochemical failure of the brain cortex is more deleterious when it is accompanied by low perfusion"
Stroke. 2013 Feb;44(2):490-6. (IF: 6.2).

13. Jadasz JJ, Rivera FJ, Taubert A, **Kandasamy M**, Sandner B, Weidner N, Aktas O, Hartung HP, Aigner L, Küry P. "p57kip2 regulates glial fate decision in adult neural stem cells"
Development. 2012 Sep;139(18):3306-15. (IF: 5.8).
14. Sah A, Schmucker mair C, Sartori SB, Gaburro S, **Kandasamy M**, Irschick R, Klimaschewski L, Landgraf R, Aigner L, Singewald N. "Anxiety- rather than depression-related behavior is associated with adult neurogenesis in a mouse model of enhanced trait anxiety- and comorbid depression-like behaviour"
Transl Psychiatry. 2012 Oct 16;2:e171. (IF: 5.4).
15. **Kandasamy M**, Reilmann R, Winkler J, Bogdahn U, Aigner L. "Transforming Growth Factor- Beta Signaling in the Neural Stem Cell Niche: A Therapeutic Target for Huntington's Disease"
Neurol Res Int. 2011;2011:124256. (IF: 3.8).
16. Steffenhagen C, Kraus S, Dechant FX, **Kandasamy M**, Lehner B, Poehler AM, Furtner T, Siebzehnruhl FA, Couillard-Despres S, Strauss O, Aigner L, Rivera FJ. "Identity, fate and potential of cells grown as neurospheres: species matters"
Stem Cell Rev. 2011 Nov;7(4):815-35 (IF: 3.6).
17. Kohl Z, Regensburger M, Aigner R, **Kandasamy M**, Winner B, Aigner L, Winkler J, "Impaired adult olfactory bulb neurogenesis in the R6/2 mouse model of Huntington's disease"
BMC Neurosci. 2010 Sep 13;11:114. (IF: 2.1).
18. **Kandasamy M**, Couillard-Despres S, Raber KA, Stephan M, Lehner B, Winner B, Kohl Z, Rivera FJ, Nguyen HP, Riess O, Bogdahn U, Winkler J, von Hörsten S, Aigner L. "Stem cell quiescence in the hippocampal neurogenic niche is associated with elevated transforming growth factor-beta signaling in an animal model of Huntington disease"
J Neuropathol Exp Neurol. 2010 Jul;69(7):717-28. (IF: 3.4).
19. Rivera FJ, Steffenhagen C, Kremer D, **Kandasamy M**, Sandner B, Couillard-Despres S, Weidner N, Küry P, Aigner L. "Deciphering The Oligodendrogenic Program Of Neural Progenitors: Cell Intrinsic And Extrinsic Regulators"
Stem Cells Dev. 2010 May;19(5):595-606. (IF: 3.3).
20. Rivera FJ, Siebzehnruhl FA, **Kandasamy M**, Couillard-Despres S, Caioni M, Poehler AM, Berninger B, Sandner B, Bogdahn U, Goetz M, Bluemcke I, Weidner N, Aigner L. "Mesenchymal stem cells promote oligodendroglial differentiation in hippocampal slice cultures"
Cell Physiol Biochem. 2009;24(3-4):317-24. (IF: 5.5).
21. Marxreiter F, Nuber S, **Kandasamy M**, Klucken J, Aigner R, Burgmayer R, Couillard-Despres S, Riess O, Winkler J, Winner B. "Changes in adult olfactory bulb neurogenesis in mice expressing the A30P mutant form of alpha-synuclein"
Eur J Neurosci. 2009 Mar;29(5):879-90. (IF: 2.8).

22. Torner L, Karg S, Blume A, **Kandasamy M**, Kuhn HG, Winkler J, Aigner L, Neumann ID. "Prolactin prevents chronic stress-induced decrease of adult hippocampal neurogenesis and promotes neuronal fate"
J Neurosci. 2009 Feb 11;29(6):1826-33. (IF: 5.9).
23. Couillard-Despres S, Wuertinger C, **Kandasamy M**, Caioni M, Stadler K, Aigner R, Bogdahn U, Aigner L. "Ageing abolishes the effects of fluoxetine on neurogenesis"
Mol Psychiatry. 2009 Sep;14(9):856-64 (IF: 13.2).
24. Rivera FJ, **Kandasamy M**, Couillard-Despres S, Caioni M, Sanchez R, Huber C, Weidner N, Bogdahn U, Aigner L. "Oligodendrogenesis of Adult Neural Progenitors: Differential Effects of Ciliary Neurotrophic Factor and Mesenchymal Stem Cell Derived Factors"
J Neurochem. 2008 Nov;107(3):832-43. (IF: 4.6).
25. Kohl Z, **Kandasamy M**, Winner B, Aigner R, Gross C, Couillard-Despres S, Bogdahn U, Aigner L, Winkler J. "Physical activity fails to rescue hippocampal neurogenesis deficits in the R6/2 mouse model of Huntington's disease"
Brain Res. 2007 Jun 25;1155:24-33. (IF: 3.1).