

Dr. E. SREEKUMARAN

Employee ID	:	2995	
Name	:	E.Sreekumaran	
Designation	:	Reader in Physiology	
Qualifications	:	M.Sc. Ph.D.	
Specialization	:	Physiology	
CONTACT ADDRESS:			
Office	:	Department of Life Sciences, University of Calicut, Malappuram, Kerala – 673 635.	
Residence	:	'Coral' Manikulathu parambu, Tenjipalam post, Malappuram, Kerala – 673 636.	
Phone office	:	0494-2407410	
Res	:	Nil.	
Mobile	:	9539254721	
Email	:	drsreekumaran@uoc.ac.in ; drsreekumaran@gmail.com	
MEMBERSHIP/ PROFESSIONAL AFFILIATIONS:			
NATIONAL	:	Association of Physiologist and Pharmacologists of India.	
PROJECTS HANDLED: (Total numbers)	:	One	
• Title	:	Potential of stem cell therapy for diabetes: a study on Wistar albino rats.	
Duration	:	Two years	
Funding Agency	:	UGC minor project	
Amount Sanctioned	:	Two lakhs	
PUBLICATIONS:			
Books authored : One			
Ani V. Das, Jackson James, Sreekumaran Edakkot and Iqbal Ahmad. "Neural development and stem cells" edited by Mahendra S Rao Edition 2. Humana Press 2006. Humana Press, USA. ISBN 1588294811, 9781588294814.			

<p>PAPERS (Twelve) A(Provide the details in table showing all details as in Research Annual Report)</p>
<p>1. T.Ramakrishna, S.Vatsala, TR.Madhav, E.Sreekumaran, J.Ramesh and KRK Easwaran. Conformational change in b-amyloid peptide (1-40) induced by aluminium: reversal by borate. Alzheimer's Research, vol.3, No.5, October, 1997.</p>
<p>2. T.Ramakrishna, S.Vatsala, V.Shobi, E.Sreekumaran, TR.Madhav, J.Ramesh and KRK Easwaran. Betaine reverses toxic effects of aluminium: Implications in Alzheimer's disease (AD) and AD-like pathology. Current Science, vol.75. No.11, December, 1998.</p>
<p>3. Edakkot Sreekumaran and T.Ramakrishna. Spatial memory loss in rat due to aluminium toxicity is reversed by desferrioxamine/pyridoxine. Alzheimer's Reports, vol.5 No.1, 2002.</p>
<p>4. E.Sreekumaran, T.Ramakrishna, TR.Madhav, D.Anandh, BM.Prabhu, S.Sulekha, PN.Bindu and TR.Raju. Loss of dendritic connectivity in CA1, CA2 and CA3 neurons in hippocampus in rat under aluminium toxicity: Antidotal effect of pyridoxine. Brain Research Bulletin, vol.59. No.6, 2003.</p>
<p>5. Ani V. Das, Sreekumaran Edakkot, Wallace B. Thoreson, Jackson James, Sumitra Bhattacharya and Iqbal Ahmad. Membrane properties of retinal stem cells/progenitors. Progress in retinal and eye research, Volume 24, Issue 6, November 2005, Pages 663-681, 2005.</p>
<p>6. Arjun A Bhaskaran, Sreekumaran E, <i>Effect of Calycopteris floribunda leaf extract on Streptozotocin induced diabetic rats</i>. IMTU Medical Journal 2013; 4: 11-15. IMTU Medical Journal, 1821-7613.</p>
<p>7. Beenarani K and Sreekumaran E. International Journal of Yoga (In press) Yogic Practice and Diabetes Mellitus in Geriatric Patients. Department of Life Science, University of Calicut, Malappuram (District), PIN 673 635, Kerala, India.</p>
<p>8. Abdul Rahiman Rahmath¹, Pattath Sadanandhan Krishnaprabha², Varma Sana³, Pichakacheri Suresh Kumar⁴, Edakkot Sreekumaran^{5*}. Study Of Dementia With Particular Reference To Mini Mental State Examination And Geriatric Depression Scale In Diabetic Patients. Asian Journal of Health Sciences, Jul -Dec 2013 Vol-1 Issue- 1.</p>
<p>9. Suresh Kumar P, Greeshma C, Sreekumaran E, Study of Dementia in Diabetic patients with particular reference to Cerad and Trail Making Test., International Journal of Scientific & Engineering Research, Volume 5, Issue 10, October-2014. 74. ISSN 2229-5518.</p>
<p>10. Beenarani K and Sreekumaran E, Management of elevated liver enzymes in geriatric diabetes by yogic practice. International Multidisciplinary Research Journal Vol 2, No 8 (2012) ISSN: 2231-6302. Available Online: http://irjs.info/, International Multidisciplinary Research Journal, ISSN: 2231-6302.</p>
<p>11. Shrikant L Patil, E.Sreekumaran and AP Krishna. Evaluation of the efficacy of cardamom aromatherapy on aerobic fitness and autonomic functions among students. Nitte University Journal of Health Science, NUJHS vol. 1, No.1-3, September 2011.</p>
<p>12. Suresh Kumar P, T. Ramakrishna, E. Sreekumaran., Association of Diabetic Neuropathy and Low Serum Calcium Levels in Diabetic Patients., International Journal of Scientific & Engineering Research, Volume 6, Issue 1, January-2015. ISSN 2229-5518 IJSER © 2015. http://www.ijser.org</p>

PRESENTATIONS

1. Norepinephrine in male and female rat brain: A quantitative study. Presented at the XIII Annual Conference of Indian Academy of Neurosciences, February 27 to March 1, 1995 at the Christian Medical College, Vellore, Tamil Nadu, India.
2. I was selected for an oral presentation on the topic "Effect of aluminium on intrinsic burst activity from hippocampal slices in rat: Desferrioxamine as a possible antidote." at The fourth Keele meeting on aluminium 24th - 27th February 2001, U.K.
3. Presented a poster on the topic "Differentiation of Voltage- and Ligand-gated Currents in Early and Late Retinal Progenitors" at the Association for Research in Vision and Ophthalmology (ARVO) conference 2003 at Florida, USA.
4. Participated as a resource person for a talk on the topic "Alzheimer's disease" At a National Seminar on Advances in medical sciences on 29th August, 2005 at the post graduate department of Microbiology, EMEA college, Kondotty, Kerala, India.
5. Participated in a workshop on "Cognitive Screening for Dementia" held at the Manipal Universal Learning Private Limited, Bangalore, India., on 4th and 5th March, 2006.
6. Participated as a resource person for a talk on "Sports and medicine matters in life" at a UGC sponsored National Seminar on the Role of physical education in health and wellness. At the St. Pius X College Rajapuram, Kerala, India on 20th and 21st July, 2006.
7. Participated in the Annual meeting of Society for Biotechnologists, India and National Symposium on Current Trends in Stem Cell Biology at the Rajiv Gandhi Centre for Biotechnology, Trivandrum, Kerala State, India on 15, 16th December, 2007.
8. Conducted a National Seminar on Neurosciences at the Department of Life Sciences, University of Calicut, Kerala, India on 13th February, 2008, which was funded by the University Grants Commission.
9. Invited as a resource person for a talk on "Stem cells and neurodegenerative disorders." at the International Conference on recent developments in stem cell research on 23rd August 2008., conducted by the Department of Biotechnology, Aditya Kiran College of applied studies, Krishnagiri, Mathamangalam Post, Kannur, Kerala, India – 670306.
10. Participated as a resource person for a talk on "Alzheimer's: a neurodegenerative disorder" at the 54th Orientation course conducted by the Academic Staff College, University of Calicut, Kerala, India on 28th August, 2008.
11. Invited as a resource person for a talk on "Is aluminium toxic?" at a refresher course conducted by the Academic Staff College, University of Calicut, Kerala, India on 6th January, 2009.

<p>12. Invited for a talk on “Alzheimer’s disease: its implication on society” and inauguration of the Biophysics Association at the MES Asmabi College, Vemballur, Kerala, India on 8th January, 2009.</p>
<p>13. Invited for a talk on Alzheimer’s disease awareness at the All India Radio, Calicut on 20th May, 2009.</p>
<p>14. Invited as a resource person for a talk on the topic “Minding the memory mess” at the National seminar on recent trends in Life Sciences conducted by the Department of Zoology, on 27th October, 2009 at the Government Brennen College, Thalassery, Kerala, India.</p>
<p>15. Sana Varma, Rahmath A, Krishnaprabha PS, Suresh Kumar P and Sreekumaran E. Study of dementia with particular reference to attentional switching and Trail making test in diabetic patients. Presented at the 97th Indian Science Congress, January 3rd to 7th, 2010. Thiruvananthapuram, Kerala, India.</p>
<p>16. Seena TP, Rahul Dev K and Sreekumaran E. Study of dementia with particular reference to Trail Making Test, Mini Mental State Examination and Geriatric Depression Scale in old age. Presented at the 97th Indian Science Congress, January 3rd to 7th, 2010. Thiruvananthapuram, Kerala, India.</p>
<p>17. Krishnaprabha PS, Rahmath A, Sana Varma, Suresh Kumar P and Sreekumaran E. Study of dementia with particular reference to 7- minute screen test and CERAD test in diabetic patients. Presented at the 97th Indian Science Congress, January 3rd to 7th, 2010. Thiruvananthapuram, Kerala, India.</p>
<p>18. Rahmath A, Krishnaprabha PS, Sana Varma, Suresh Kumar P and Sreekumaran E. Study of dementia with particular reference to Mini Mental State Examination and Geriatric Depression Scale in diabetic patients. Presented at the 97th Indian Science Congress, January 3rd to 7th, 2010. Thiruvananthapuram, Kerala, India.</p>
<p>19. K Rahul Dev, Seena TP and E.Sreekumaran. Study of dementia with particular reference to 7- minute screen, Gobal Vs Local attentional task and CERAD. Presented at the 97th Indian Science Congress, January 3rd to 7th, 2010. Thiruvananthapuram, Kerala, India.</p>
<p>20. Participated in the National Conference of Committee for the Purpose of Control and Supervision of Experiments on Animals on 15th January, 2010 by the Ministry of Environment and Forests at New Delhi, India.</p>
<p>21. Karthika C S, Sreekumaran E, I D Konikkara. Hyperglycemia Reversal in Rats: Diabetes Well Within Pippalyaasavam's Therapeutic Range. Biovision 2010 – International Symposium on Bioprocess Engineering, 1- 4th October 2010, Thrissur (Kerala), India.</p>
<p>22. Ahamed Shahal M, Sreekumaran E, I D Konikkara. The Possible Role of Gut Microflora in</p>

Generating Medicinal Molecules from Herbs. Biovision 2010 – International Symposium on Bioprocess Engineering, 1- 4 th October 2010, Thrissur (Kerala), India.
23. Sinju C P, Ambili G K, Sreekumaran E, I D Konikkara. Dasamoolarishtam- Reversal of Streptozotocin- Inflicted Diabetes Mellitus in Rats. Biovision 2010 – International Symposium on Bioprocess Engineering, 1- 4 th October 2010, Thrissur (Kerala), India.
24. Presentation of Sowmya K and Sreekumaran E. The Hypoglycemic effect of Calycopteris floribunda (pullaani)-whether it causes the regeneration of pancreatic beta cells? - A histological Study. 23 rd Kerala Science Congress, 29 th to 31 st January, 2011, Thiruvananthapuram (Kerala), India.
25. Participated as a resource person for a talk on “The global scenario of pollution and our role” at the Orientation course conducted by the Academic Staff College, University of Calicut, Kerala, India on 16 th September, 2011.
26. Participated as a resource person for a talk on “The global scenario of pollution and our role” at the Orientation course conducted by the Academic Staff College, University of Calicut, Kerala, India on 16 th September, 2011.
27. Chaired a scientific session at the 23 rd Annual National Conference of Physiological Society of India (Physicon 2011) held at the Department of Physiology, NRI Medical College and General Hospital, Guntur Andhra Pradesh, on 2 ^{1st} - 23 rd December, 2011.
28. Attended the 23 rd Annual national conference of Physiological Society of India (Physicon 2011). Department of Physiology, NRI Medical College and General Hospital, Guntur Andhrapradesh. On 21 st December, 2011 and Co Chaired a session on the title Modern Day stress.
29. Presented a poster on “Role of Sida cordifolia in the management of peripheral neuropathy in rats” at the 2012 SATELLITE SYMPOSIUM of the Indian Academy of Neurosciences - Bangalore Chapter “Neurobiology of cognition” at the Convention Center, NIMHANS, Bangalore on 1 st and 2 nd November, 2012.
30. Talk at the Academic staff College, University of Calicut on the topic “Pollution and our role as teachers” on 13 th December, 2012.
Ph.D SUBMISSION/ AWARDED
Ph.D thesis awarded to Dr. Pradeep kumar KM guided by Dr.E.Sreekumaran on the topic "Biochemical changes in diabetes mellitus" on 3 rd March, 2011 and approved by the syndicate as per the order No. CDC/C1/1950/2010 Biochem. Dated 18/05/2011.
Ph.D thesis submitted by Mrs. Beenarani, K guided by Dr.E.Sreekumaran on the topic “ <i>Yogic practices as a complementary and alternative therapy in geriatric diabetes mellitus.</i> ” in December, 2014.

RESEARCH GUIDANCE:		
<i>Ph. D. Degree</i>	<i>Awarded Degree:</i>	<i>One</i>
	<i>In progress :</i>	<i>Eight</i>
<i>M.Phil. Degree</i>	<i>Awarded Degree:</i>	<i>Six</i>