

Dr. MATHEW JOHN

Scientist B, Jubilee Centre for Medical Research, Jubilee Mission Medical College & Research Institute, Thrissur

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EDUCATION

Course	Board/ University	Subject	Title of Thesis	Percentage	Year of Completion
PhD	National Institute of Mental Health and Neurosciences (NIMHANS), Institute of National Importance, Bangalore, India	Department of Neurochemistry	Role of Insulin in Alzheimer's Disease	N/A	June 2013 (PhD awarded)
M.Sc	Jawaharlal Institute of Post Graduate Medical Education and Research (JIPMER), Pondicherry University, India	Medical Biochemistry (3 Years)	N/A	61.4% First class	2006
B.Sc	Government College Kariyavattom, University of Kerala, India	Biochemistry (main) Chemistry and Botany (subsidiary subjects)	N/A	90.1% First class	2002
Pre Degree	SB College Changanacherry, Mahatma Gandhi University, Kerala, India	Science (Physics, Chemistry and Biology)	N/A	78% First class	1998

WORK EXPERIENCE

- Worked as DBT – Research associate at Rajiv Gandhi Centre for Biotechnology, Thiruvananthapuram in Molecular Neurobiology division and trained graduates and post graduate students in lab work (Jan 2013 – September 2015)
- Worked as tutor in Department of Biochemistry in Annai Medical College, Sriperumbudur (September 2015 – April 2016).
- Worked as Guest Lecturer in Department of Zoology, S.B. College, Changanacherry for M.Sc Biochemistry course. (September 2012 - Jan 2013)

- Worked as Tutor and clinical biochemist in the Department of Biochemistry, Amala Institute of Medical Sciences, Thrissur (June 2008- Jan 2009)
- Worked as Junior Research Fellow in a Department of Science & Technology project in phytopharmacology & phytochemistry department at JNTBGRI, Thiruvananthapuram (September 2006 – June 2008)

AWARDS AND ACHIEVEMENTS

- Recipient of DBT – Research Associate fellowship for post doctoral research
- Recipient of CSIR-JRF Fellowship funded by Council of Scientific and Industrial Research (CSIR), India and the same Fellowship was availed for PhD.
- Qualified National Eligibility Test (NET) for Lectureship (Life Sciences), India

PUBLICATIONS

- M. Jansirani Sivasubramaniam, **Mathew John**, C. Thirupathy, Abhirami Soundararajan and S. Rhuthesh Mohavanam (2016): The Significance of De Ritis ratio in Alcoholic Hepatitis Patients, MedPulse – International Medical Journal 3 (1): 53-56.
- **Mathew John** and Sarada Subramanian. (2012): Intranasal insulin modulates hippocampal amyloid β levels by regulating Glycogen Synthase Kinase (GSK)-3 α in diabetic rats, International Journal of Biosciences and Technology 5: 49-53.
- Sarada Subramanian and **Mathew John**. (2012): Intranasal administration of insulin lowers amyloid- β levels in rat model of diabetes, Indian Journal of Experimental Biology 50: 41-44.
- Sarada Subramanian, Debashree Bandopadhyay, Pradeep Kumar Mishra, Maya Mathew and **Mathew John**. (2010): Design and development of non-fibrillar amyloid- β as a potential Alzheimer vaccine, Biochemical and Biophysics Research Communications 394: 393-397.
- Sridhar M.G., Sajita setia, **Mathew John**, Vishnu Bhat, Nandeesh H and Sathiyapriya V. (2007): Oxidative stress varies with the mode of delivery in intrauterine growth retardation: Association with Apgar score, Clinical Biochemistry 40: 688-691.
- Sajita Setia, Sridhar M.G, Vishnu Bhat, Lata Chaturvedula, Vinayagamoorti R and **Mathew John**. (2006): Insulin sensitivity and insulin secretion at birth in intrauterine growth retarded infants, Pathology 38(3): 236-238.
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MEMBERSHIP

- Life term member of Society of Biological Chemists (India)

PERSONAL DETAILS

Residential address:

Palakunnel House, Mammood P O, Changanacherry, Kottayam - 686536, Kerala, India

- Sex : Male
- Date of Birth : 27 March 1981
- Passport Number : GOO57457
- Father's Name : N. X. John
- Nationality : Indian
- Languages Known : English, Malayalam,

BIOCHEMICAL TECHNIQUES KNOWN

- Routine biochemical assays for estimation of biomolecules viz. protein, carbohydrates and nucleic acids
- Recombinant expression of proteins and protein purification
- Western blot and ELISA
- Invitro cell culture experiments which include DNA transfection and cell imaging by confocal microscopy
- Plasmid DNA isolation and purification
- Polymerase chain reaction (PCR)

CLINICAL BIOCHEMISTRY LABORATORY EXPERIENCE

- Biochemistry result interpretation and evaluation - Semiautoanalyzer and Auto analyzer based clinical investigations in biochemistry and programming
- External control quality assessment program (EQAS) with CMC Vellore and Biorad and sending the reports for analysis and ranking
- Electrolyte analysis and quality control analysis and interpretation
- Hormone assays and special lab investigations (HbA1C, Glucose tolerance test, Glucose challenge test)
- Internal quality and external quality control program analysis and interpretations

INVIVO EXPERIMENTS

COMPLETED ANIMAL EXPERIMENT COURSE PROGRAM CONDUCTED BY NIMHANS AS PART OF PhD PROGRAM

- Dissection of viscera and brain in rodents
- Hippocampus isolation from rat brain
- Stereotaxy for intracerebroventricular injection
- CSF fluid collection from rat
- Blood collection by cardiac puncture
- Intraperitoneal injection in rat

RESEARCH INTEREST

- METABOLOMICS OF DIABETES AND OBESITY
- GLYCOPROTEOMICS OF METABOLIC DISORDERS ASSOCIATED WITH INFLAMMATION

POSTER PRESENTATION

- Effect of tatCN21 peptide on CaMKII-GluN2B interaction in HEK-293 cells (International symposium on Translational neuroscience and XXXII Annual Conference of the Indian Academy of Neurosciences, NIMHANS, Bangalore, 2014)
- Streptozotocin induced diabetic rat as non-transgenic model for Alzheimer's disease (Society of Biological Chemists (India), Conference held at Indian Institute of Science, Bangalore, 2010)
- Attended CME on Viral hepatitis at Annai Medical College (Rajalakshmi Group of Institutions) College, Sriperumbudur on December, 2015.