

Biodata

Dr. Mathew John

Designation: Scientist C

Lab: Biochemistry and Phytochemistry Research Division

Department: Jubilee Centre for Medical Research,

Institute: Jubilee Mission Medical College & Research Institute, Thrissur

Date of Birth: 27-03-1981, Sex: Male, Category: General

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5. Educational Qualification:

Degree	Institution	Field	Year
B.Sc	Government College Kariavattom, University of Kerala	Biochemistry	2002
M.Sc	JIPMER, Pondicherry University,	Medical Biochemistry	2006
Ph.D (CSIR fellowship)	NIMHANS, Bangalore,	Neurochemistry Title: Role of Insulin in Alzheimer's disease	2013

Work experience

Duration & Details	Institution	Particulars of work done
July 2016 till date Scientist C	JCMR, Jubilee Mission medical college & Research Institute, Thrissur	Immunology & phytochemistry Proteomics of chronic inflammatory diseases, Phytochemical extraction of plant compounds focusing on <i>Carica papaya</i> L. and study on <i>in-vitro</i> and <i>in-vivo</i> calcium signaling mechanism and platelet proteomics
DBT-Research associate (DBT-RA)	Molecular Neurobiology lab, Rajiv Gandhi Centre for Biotechnology, Thiruvananthapuram	Voltage gated and NMDA receptor mediated calcium signaling in <i>in vivo</i> model
Guided 35 M.Sc students	Jubilee Centre for Medical Research, Jubilee Mission Medical College & Research Institute, Thrissur	Proteomics of Diabetes mellitus and secondary complications, Proteomics of chronic inflammatory diseases and Neuroimmunology diseases focusing on encephalitis and neuromyelitis optica Spectrum disorders
Guided MBBS student for ICMR-STC fellowship months) 2018	Jubilee Centre for Medical Research, Jubilee Mission Medical College & Research Institute, Thrissur	Erythrocyte proteomics of cardiovascular diseases

Co Guide for MD dissertation	Jubilee centre for medical research, Jubilee Mission medical college & Research Institute, Thrissur	Cystatin C as early marker of renal dysfunction in critically ill children
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**Approved guide for KUHS in paramedical and allied health sciences:
UO No. 83/2019/Dean (R)Dtd 30/10/2019.**

Number of Ph.D scholars guiding: 6

Project as Principal investigator

1. Funding agency Indian Council of Medical Research (Budget: 36 lakhs)
Title: Lipid protein multi-omics integrative approaches for differential diagnosis of autoimmune neuromyelitis optica disease spectrum – a comparative cross sectional study

Co-investigator of projects

1. Non-invasive treatment of uterine fibroids through rationally designed Selective progesterone receptor modulators – DHR funded (PI: Dr Dileep Vijayan)
2. Elucidating the role of spices as preventive and therapeutic agents for Alzheimer's disease – Spices board funded (PI: Dr Dileep Vijayan)
3. Elucidating the association of serum protein levels and genetic polymorphisms of FABP4 with obesity and breast cancer risk in post-menopausal obese women
Funding agency: ICMR (PI: Prof Dr. Ravindran Ankathil, Co-PI: Dr Sureshkumar R, JCMR)

Number of citations: 160

Cumulative impact factor: 55

Number of poster presentations: 20

List of Recent Publications

1. Kumar SS, Krishnakumar K, John M. Antihemolytic activity of flavonoids from butanolic extract of *Carica papaya* L. cultivar 'Red Lady' leaf. *Food and Humanity*. 2023 Dec 1;1:159-64.
2. Babu A, **John M**, Liji MJ, Maria E, Bhaskar SJ, Binukmar BK, Sajith AM, Reddy EK, Dileep KV, Sunil K. Sub-pocket-focused designing of tacrine derivatives as potential acetylcholinesterase inhibitors. *Computers in Biology and Medicine*. 2023 Feb 11:106666. <https://doi.org/10.1016/j.compbiomed.2023.106666>
3. Kumar SS, Krishnakumar K, **John M (Corresponding author)**. Flavonoids from the butanol extract of *Carica papaya* L. cultivar 'Red Lady' leaf using UPLC-ESI-Q-ToF-MS/MS analysis and evaluation of the antioxidant activities of its fractions. *Food Chemistry Advances*. 2022 Oct 1;1:100126.
4. Maria E, Das S, Varghese An, Harisuthan T, and **John M (corresponding author)** Differentially Expressed Erythrocyte Proteins in Neuromyelitis Optica Spectrum Disorders and Their Functional Annotation Using DAVID Bioinformatics Tool. *Neurochem J* (2022) 16(4):465-71.
5. Maria E, Yohannan M, Harisuthan T, **John M (corresponding author)** Comparative Proteomics of Lipid Transport Proteins and Assessment of Oxidative Stress Parameters in Acute Ischemic Stroke and Healthy Control. *Int J of Biochem & Biophys*. (2022),10(1):1-7
6. **John M***, Maria E, Das S. Identification of Novel Serum Proteins Associated with Myelination and Cholesterol Transport in Neuromyelitis Optica Spectrum Disorders by Mass Spectrometry. *Indian Journal of Clinical Biochemistry*. 2021 Nov 12:1-0. DOI: 10.1007/s12291-021-01004-w
7. **John M***, Priyanka S, George JB, Maria E, Unni G. Oxidative stress parameters in atherosclerotic cardiovascular disease high and low risk score groups as indicators of acute myocardial infarction. *Int J Medical Sciences and Technology*. 2021, 10(1):1-7

8. Siddiqua MSH, **John M**, Manoj V.C, Santhakumar R. Cystatin C- an early marker indicative of renal dysfunction in critically ill children: a prospective cohort study. International J of Contemporary pediatrics. International J of Contemporary pediatrics. 2019; 6(5): 1981-84
9. Kumar M, **John M***, Madhavan M, James J, Omkumar RV. Alteration in the phosphorylation status of NMDA receptor GluN2B subunit by activation of both NMDA receptor and L-type voltage gated calcium channel. Neuroscience letters, 2019; 709 (14): 134343 * Equal contribution as first author
10. Kumar M, Paul S, **John M**, Mayadevi M, Omkumar RV. Prevention of excitotoxicity associated changes in GluN2B and TRKB levels by NMDA receptor in vivo. J Neurochemistry 2017;142, pp242-243 (Conference paper)

Chapter in book

Vanditha M, Das S, **John M**. Lipid Metabolism and Associated Molecular Signaling Events in Autoimmune Disease. Fatty Acids-Recent Advances. DOI: 10.5772/intechopen.105746

MEMBERSHIP

Life term member of Society of Biological Chemists (India)
Member in Research gate

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