Mrs. Chandrika Ravi

Personal information

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Address : Perumal koil street, P.Villiyanur,
Villipuram, Tamil nadu, India

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Currently working as deputy quality manager in Sri Samraj Labs, Cuddalore from November 2021

Educational qualifications:

April 2014 - Current
Ph.D (Biotechnology)
Vellore Institute of Technology, Vellore
Focus: Behavior, Anxiety, Neurobiology & Molecular biology

May 2011 - May 2013
M.Sc. Biochemistry and Molecular Biology
Pondicherry University, Puducherry
CGPA – 7.3/10

May 2008 – April 2011
B.Sc. Medical laboratory Technology
Jawaharlal Nehru Institute of Postgraduate Medical Education and Research, Puducherry
CGPA – 7.1/10

Employment:

April 2017 – April 2018
Assistant Professor
Vellore Institute of Technology, Vellore
Handled practical and theoretical sessions to undergraduate students

April 2014 - April 2017
Junior research fellow
Vellore Institute of Technology, Vellore
Funded by National Tea Research Foundation

April 2013 to April 2014
Research Assistant
Pondicherry Centre for Biological Sciences
Carried out basic research experiments and assisted undergraduate students for their projects

Research experience

2014 – Current
Doctoral thesis **Enhancement of psychotropic effects of L-theanine using nanotechnology in animal model**
Studied the anti-anxiety effects of nano-encapsulated L-theanine in animal models using behavioral and molecular studies

2013 – 2014
As a Research assistant performed molecular and analytical assays

2011 – 2013 Master Thesis **Evaluation of synergistic effect of *Camellia sinensis* (Green tea) and *Zingiber officinale* (Ginger) extract on bioactivity**. Studied the alcoholic extract of selected herbs for their antibacterial, antifungal and anticancer activity.

Exam qualified

Qualified GATE exam in 2014 with all India rank of 1241 in Life science

Skills

Animal handling

- Rats
- Mice

Animal care and management

Behavioral experiments

- Elevated Plus Maze
- Morris Water Maze
- Radial Arm Maze
- Forced Swim Test
- Square Maze
- Analgesiometer
- Rota Rod
- Pole Climbing Test
- Open Field Test

Molecular biology techniques
Cell culture techniques, PBMC isolation
Western Blot, SDS-PAGE,
qPCR, ELISA, FACS
Immunofluorescence, Immunohistochemistry
Nanoparticle characterization
Drug encapsulation, Pharmacokinetics

Linguistic ability

English – Professional proficiency
Tamil – Mother tongue
Telugu – Fluent

Publications:

2020 Anxiolytic activity of PBCA encapsulated L-theanine (behavioral & molecular studies on rats) (In preparation)

Tea polyphenols loaded solid lipid nanoparticles inhibit proliferation of breast cancer cells (Focus on WNT pathway) (In preparation)

Albumin nanoparticle loaded EGCG induce apoptosis and inhibit tumour progression in DMBA induced rats (In preparation)

2019 **Ravi C, Khan ZA and Mandak AKA**. "Fabrication of poly (D, L-lactic acid) nanoparticles as delivery system for sustained release of L-theanine." *IET nanobiotechnology* 13, no. 7 (2019): 742-747. http://dx.doi.org/10.1049/iet-nbt.2018.5248 ***IF – 1.75***

2018 **Singh NA, Bhardwaj V, Chandrika Ravi, Ramesh N, Mandal AKA, and Khan ZA**. "EGCG nanoparticles attenuate aluminum chloride induced neurobehavioral deficits, beta amyloid and tau pathology in a rat model of Alzheimer's disease." *Frontiers in aging neuroscience* 10 (2018): 244. https://doi.org/10.3389/fnagi.2018.00244 ***IF – 3.633***

2014 **Hairul-Islam VI, Saravanan S, Sekar D, Karikalan K, Senthilkumar P, Ravi C, Thirugnanasambantham K**. Identification of microRNAs from Atlantic salmon macrophages upon Aeromonas salmonicida infection. RNA & DISEASE. 2014 Oct 15;1.

https://doi.org/10.14800/rd.303

Workshop

2015 In-silico "Drug designing and development" conducted by TANUVAS Veppery, Chennai

Abstracts:

2017 **Singh NA, Ravi C, Mandal AKA, Khan ZA** (2017)**,** OR12: Neuroprotective effect of EGCG loaded nanoparticles on Aluminium chloride induced Alzheimer disease in wistar rats. *Clinical Nutrition*; 36(Supp 1): S5-6. https://doi.org/10.1016/S0261-5614(17)30775-6 ***IF- 6.402***

Conferences

2017 **Singh NA, Ravi C, Mandal AKA, Khan ZA.** Neuroprotective effect of EGCG nanoparticles on aluminium chloride induced Alzheimer disease in wistar rats. *39th ESPEN Congress in The Hague, The Netherlands.* 2017.

2015 (***Poster Presentation)*** **Ravi C, Mandal AKA.** PBCA encapsulated nanoparticle to treat anxiety related disorder. The 6th biennial neuroscience *NEURIZONS in Georg-August-Universität Göttingen, Germany*. 2015.

2014 **(Poster presentation**) **Ravi C Khan ZA Mandal AKA**. Preparation and characterization of L-theanine Loaded PLA and PLGA Nanoparticles to enhance their psychotropic effect. International Symposium on *Translational Neuroscience*. XXXII Annual Conference of the Indian Academy of Neurosciences. *National Institute of Mental Health and NeuroSciences(NIMHANS), India.* 201

2013 Participated in National level conference on "Drug discovery and cellular dynamics" held at Pondicherry university, Puducherry (March 2013).

2012 Participated in National level conference on "Current scenario and emerging trends in hepatocellular diseases" held at Pondicherry university, Puducherry (October 2012).

Referees:

Doctoral Supervisor:
Dr. Abul Kalam Azad Mandal (Professor)
VIT University (Vellore, India)
Email: akazadmandal@vit.ac.in, akamandal@rediffmail.com

Doctoral co-guide
Dr. Zaved Ahmed Khan
Head Of Department-Biotechnology and Food Technology
Chandigarh University (Punjab, India)
Email: khan.zaved@gmail.com

Dr. Thirugnanasambantham Krishnaraj
Research head

Pondicherry Centre for Biological Sciences and Educational Trust (Puducherry, India)
Email: thiru_dna@yahoo.co.in