

Looking forward to a life full of learning and contributing to Neuroscience.

CONTACT





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ACHIEVEMENTS

- Prof. N. Padmanabhan Memorial Award - best paper by any PG student (2009)
- University Topper in MD Physiology (2010)
- Principal Investigator of 3 Nationally Funded Projects, India - ~65k€ (2012-
- Siri research award best research paper in the area of stress (2019)
- Prof. R.C. Shukla Oration Award for the best paper in Cardiovascular Physiology (2021)

I wish to explore

Area of Interest: Neuroendocrinology. **Specific Focus on these:**

- Sex Differences in Neurology Hormonal Influence on Neurotransmission
- Mechanisms of Action of Exposome on brain aging and neuropsychiatric conditions
- Design Preventive and treatment strategies for Brain Aging and **Neuropsychiatric Conditions**

Kirthana Kunikullaya U



MBBS, MD (Physiology), DNB, Ph.D, PostDoc (Neuroscience)

About

I am a Physician, trained in Medicine and specialized in Human Physiology (MD, DNB). After being an Assistant Professor in a Medical College & Teaching hospital in India for 10 years, I shifted to France as a postdoc in Neuroscience. I am interested to design sex-specific treatment and prevention strategies for neurological and neuroendocrinological problems.

EXPERIENCE

2021-2024 2.7 years

Université de Rennes

Postdoctoral Researcher | Institut de recherche en santé, environnement et travail (IRSET), University of Rennes 1

(Postdoc - Based on research experience post MD) - Stratégie d'Attractivité Durable - Region Bretagne Postdoctoral Funding (2022-24)

Studying the effect of anthropogenic stimuli on neurosteroids and neuroplasticity. Ongoing & Completed Projects:

- Prenatal exposure to neonicotinoids in mice and zebrafish
- Developmental neurotoxicity by exposure to Ethinyl Estradiol

Thesis: Short-term impact of anthropogenic environment on

Advisors: Harry Steinbusch, Theirry Charlier, Jodi Pawluski

• Involved in teaching, research, patient care, and admin roles.

Assistant Professor, Physiology | Rajiv Gandhi University

• Investigated the effect of music as an acoustic stimulus on the

cardiovascular and nervous systems (using HRV, ERP and EEG-

Neurological changes in an AroKO model of zebrafish

PhD | University of Maastricht, Netherlands

neuroplasticity - a study among humans and animals

2019-2023



Maastricht University

2010-2021



10.9 years



2007-2010



3 years

Postgraduate - MD Physiology | RGUHS, India

• MD Thesis - Comparative study of autonomic functions between day and night shift workers.

SKILLS

Animal models in neuroscience - Molecular Biology Techniques

of Health Sciences (RGUHS), India

based approaches).

- Rat brain tissue brain slice preparation, mounting, IHC, immunofluorescence, confocal microscopy, bacterial culture, behavioral tests.
- Zebrafish fish models DNA, RNA extraction, Genotyping, PCR, qRT-PCR, brain inclusion, slicing, IF, Immunostaining for different markers in the brain, cell counting, EASZY assay for screening chemicals, Light Sheet Microscopy, Cortisol assay (ELISA).
- · Physiology & Pharmacology of rabbit heart and rat intestine, amphibian heart, neuromuscular junctions (Physiograph)

Human Physiology - Electrophysiology Techniques

- · Holter monitoring of blood pressure, electrocardiography, heart rate variability (autonomic function),
- Neurophysiology event-related potentials (ERP), electroencephalography (EEG), sleep polysomnography recordings, emotional, anxiety, stress, health scales and questionnaires, cognitive functions; analysis of biomarkers in serum and saliva (ECLIA, ELISA, RIA).

Others - Softwares

SPSS, Statistica, R, Graphpad, Adobe Photoshop, Image J