

## FACULTY PROFILE



### Dr. Nevin KG

Assistant Professor (Biochemistry)

Head, Department of Marine Biosciences

Ph.D (University of Kerala)

Biochemistry

### Contact details



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Dr. Nevin KG, an Assistant Professor specializing in Biochemistry at the Kerala University of Fisheries and Ocean Studies (KUFOS), serves as the Head of the Department of Marine Biosciences and Course Coordinator for M.Sc. Biotechnology. His research interests encompass Marine Bioprospecting, Cardiotoxicology of Anticancer Drugs, Proteoglycans, and functional sulfated oligosaccharides characterization, and the development of Small molecule therapeutics.

He has several years of teaching and research experience as An Assistant Professor at the School of Biosciences, Mahatma Gandhi University, Kottayam, and as a Post Doctoral Fellow at the Proteoglycan Signalling Laboratory, Hokkaido University, Sapporo, JAPAN working on the development of marine and nonmarine functional sulfated oligosaccharides and glycomimetics as anti-inflammatory and anticancer molecule as well as on the development of antibodies against the proteoglycan linkage regions for therapeutic purpose. He has done several major research projects including one industry linked, funded by the Coconut Development Board, KSCSTE, Biotech Commission of Kerala, and Arjuna Natural Extracts. His research work has been published in several international peer-reviewed journals. Several students have completed Ph.D under his guidance from Mahatma Gandhi University.

Dr. Nevin KG is presently working on the isolation of therapeutic molecules from marine organisms and developing these molecules against drug-resistant pathogens and as an effective cardioprotective molecule. He is actively engaged in organizing workshops, seminars, and awareness programs on marine pollution and Biochemical techniques as well as training students from other institutions from different parts of Kerala on the bioprospecting of marine organisms.

## **Teaching:**

- ❖ General and Microbial Biochemistry
- ❖ Molecular Biology
- ❖ Genomics and Proteomics
- ❖ Marine Bio prospecting and Biotechnology
- ❖ Marine Biotechnology
- ❖ Biopharmaceuticals

## **Research Areas:**

- Bioprospecting of Marine Organisms
- Cardiotoxicology of Anticancer Drugs
- Proteoglycans and functional sulphated oligosaccharides characterisation
- Development of Small molecule therapeutics

## **Key Management Roles:**

- Head, Department of Marine Biosciences
- Course Coordinator, M.Sc Biotechnology
- Assistant Warden, Men's Hostel, KUFOS
- Member, Anti ragging Cell
- Member, IPR cell

## **Publications:**

- Research gate: <https://www.researchgate.net/profile/Nevin-Govindan>,
- Google scholar: <https://scholar.google.com/citations?user=2zKSPIAAAAAJ&hl=en>

## Awards & Achievements:

- **Neema Job, Sreelakshmi PU, Deepa John, Ashly Augustine, Ambily Balakrishnan, Nevin KG, Best Poster award** on Tracking the microbiome associated with mangrove ecosystem in the south coast of India under the theme Climate Change Challenges and opportunities. International Fisheries Congress and Expo, KUFOS-2024
- **Ambily Balakrishnan , Limnamol VP, Nevin KG, Best Poster award** on Bioactive compounds from a novel marine actinomyocytes clinical stains of *C aurius* and ESKAPE pathogens, ALARM, Amritha School of Biotechnology, 17-19 October 2023.
- **Manjumol C.C., Neema Job, Emilda Rosmine, Limna Mol VP, Nevin KG** won **Frist prize for poster titled" Marine microalgae and cyanobacteria to combat ageing"** in 2 day workshop on " Probiotics in Ageing" organised by Department of Food Science and Technology and Department of Marine Biosciences, KUFOS in association with Probiotic Association of India, 3-4 May, 2023.
- **Sunitha M C, Nevin KG, Dhanyakrishnan R, PrakashKumar B, Best Oral presentation award**, Probing The Effects Of A Naturally Occurring Phenolic Compound *p*-coumaric Acid On Anthracycline Induced Toxicity *In Vitro*. National conference on Role of Biopharmaceuticals in achieving Health by 2020. NGP arts and Science College, Coimbatore, Jul, 2015.
- **Salil G and Nevin KG, Best poster award** at the International Conference on Advances in Free Radical Research, Natural Products, Antioxidants and Radioprotectors in Health IXth Annual Conference of Society for free Radical Research- India (SFRR-India) 11-13th January, Hyderabad, India, 2010.
- **Post Doctoral Fellowship**, Laboratory of Proteoglycan Signaling and Therapeutics, Hokkaido University, Sapporo, Japan, 2007.
- **Nevin KG and T Rajamohan, Third best oral presentation award** at the International Conference on Atherosclerosis, XVII<sup>th</sup> Annual Conference, Indian Society of Atherosclerosis Research (ISAR), Thiruvananthapuram, India, 21-23<sup>rd</sup> December 2004.

## Ongoing Projects:

- **Principal Investigator** - Centre for Bioactive substances from marine Organisms (Kerala Government Plan fund)- 2019- (10 Lakhs)

## Read More:

## Major Research Project Done

- **Principal Investigator:** Isolation, characterization and evaluation of *in vitro* anti cancer and antioxidant activities of polyphenols from kernel and oil from coconut Coconut Development Board, Ministry of Agriculture, Govt. of India, 30.8 Lakhs, 2013-2015, Completed.
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- **Principal Investigator:** Molecular mechanism of antidiabetic activity of *Costus pictus*. Kerala Biotechnology Commission, Kerala, ***Under Industry linked Biotechnology Research Scheme (IBRS)***: Industry Partner- Arjuna Natural Extracts, 2014-2017, Completed.
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- **Principal Investigator:** Molecular mechanism of hepato protective activity of *Aerva lanata*, 10 Lakhs, 2014-2017, Completed.

## Book Chapters

- Neema Job, Ashly Augustine, Nevin KG. Manglicolous endophytic fungi as a source of L-Asparagine, Ed. M. Anilkumar, Recent Trends in Endophytic R, Research, IIP Series Publishers, Cikumangluru, Karnataka, India, 2023, pp-203-220.
- Nevin KG, Virgin Coconut Oil on Brain Health" in edited book titled "Research Trends in Food Technology and Nutrition (Volume - 13). Eds, Akinik Publishers, New Delhi, India 2020.

- Sini H, Nevin KG, Recent Advances in *Solanum trilobatum* Research, Research Trends in Medicinal Plant Sciences (Volume - 7), eds. Dr. Manzoor Hussain, Akinik Publishers, New Delhi, India 2020 pp 97-109.
- Neema job, Nevin KG. Phycobilins: Pigment Molecules with Potential Biological and Therapeutic Applications, In. "Advances in Biological Sciences and Biotechnology (Volume - 2)". Ed. Dr. Yogendra Singh; Integrated Publications, New Delhi, 2020.
- Neema job, Nevin KG. Cellulases: Structure and Functions; ed: Dr. R.K. Naresh, Volume –29;99-120, AkiNik Publications New Delhi, 2022.

### **Ph.D Awarded: 3**

**2020-** Recognized as research Supervisor in Ocean Science and Technology, Kerala University of Fisheries and Ocean Studies, DoR/887/2018, Dated.25.03.2020.

**2015-**Recognized as research Supervisor in Biosciences (UO No. 1282/AVI/1/RG/2504/2013/Acad, dated 10.03.2015).

- **Dr. Sunitha Mary Chacko:** Title: Therapeutic Efficacy of Natural Compounds on Drug-Induced Cardiotoxicity- Registered in 2015 (**Supervising Guide-Dr. Nevin KG**) (UO. No. 6346/AII/4/2015/Academic dated 29.10.2015; UO. No. 5538/AX/3/Academic/2015 dated 28.09.2015); **Ph.D. Awarded in October 2021, Mahatma Gandhi University, Kottayam**
- **Dr. Dhanya Krishnan R:**Title: Characterization and in vitro anticancer evaluation of the methanol extract from coconut kernel – Registered in 2015 (**Supervising Guide-Dr. Nevin KG**) (UO. No. 6346/AII/4/2015/Academic dated 29.10.2015; UO. No. 5538/AX/3/Academic/2015 dated 28.09.2015): **Ph.D. Awarded in June 2021, Mahatma Gandhi University, Kottayam**

- **Dr. Anusha CS:** Title: Molecular Studies of the hepato-protective activity of *Aerva lanata* Registered in 2015. **(Supervising Guide-Dr. Nevin KG)** (UO. No. 5269/Acv AII/4/2015/Academic Dated 14.09.2015; UO. No. 6346/AII/4/2015/Academic dated 29.10.2015; UO. No. 5538/AX/3/Academic/2015 dated 28.09.2015. Ph.D. **Ph.D awarded in June 2022, Mahatma Gandhi University, Kottayam**

### **Post Doctoral Mentor**

- Mentor to Dr. Neema Job, UJJWAL Post Doctoral Fellow, Directorate of Environment and Climate Change, Government of Kerala

### **Training and Workshop Organised**

- **Conducted 2 day webinar on “Advanced microscopic techniques for cellular Research”.** In collaboration with inBiotek Microsystems, Kochi on 14<sup>th</sup> and 15<sup>th</sup> February 2022 **(Convener)**
- **Organized ten-day training workshop on Marine Environmental Pollution** (April 19-28, 2023). **(Co-Convener)**
- **Organised a workshop on “Probiotic in Ageing”,** KUFOS-Probiotic Association of India, 3-4 May, 20203 **(Co-Convener)**
- 10 days work shop on Techniques in Marine Microbial Bioprospecting, Organised by the Department of marine Biosciences, FOST, KUFOS2-9 April , 2024 **(Convener)**