

N.V. VINOD Ph.D,

Associate Professor & Head

Department of Microbiology

St. Pius X College, Rajapuram

(Govt. aided college, affiliated to

Kannur University)

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Profile Summary

A dedicated and accomplished microbiologist with over 15 years of experience in academia and research. Expertise in protein chemistry, Microbiome, drug discovery, bioactive compound screening and computational biology, with a specific focus on antibiotic resistance mechanisms and quorum sensing in *Staphylococcus aureus*. A committed educator and researcher, currently serving as Associate Professor and Head of the Department of Microbiology at St. Pius X College.

Research interests

- Protein Chemistry
- Drug discovery and designing
- Bioactive compound screening
- Microbiome research
- Computational biology

Educational Qualifications

- **Ph.D. in Microbiology** (2006-2010)
Kannur University, Kerala, India

Thesis Title: Studies on bacterial proteins associated with antibiotic resistance and its inhibition from medicinal plants

- **PG-Diploma in Bioinformatics** (2009)
Tamil Nadu Agricultural University, India
- **M.Sc. in Microbiology** (2001)
Periyar University, Tamil Nadu, India
- **B.Sc. in Botany** (1998)
University of Calicut, Kerala, India

Professional Experience

- **Associate Professor in Microbiology** (2024 - Present)
St. Pius X College, Rajapuram, Kerala, India
- **Assistant Professor** (2012 - 2024)
St. Pius X College, Rajapuram, Kerala, India
- **Postdoctoral Fellow** (2009 - 2012)
KSCSTE, Govt. of Kerala, IUCB, Kannur University, Kerala, India
- **Technical Assistant** (2006 - 2009)
Department of Biotechnology & Microbiology, Kannur University, Kerala, India
- **Assistant Professor (On Contract)** (2003 - 2006)
Department of Biotechnology & Microbiology, Kannur University, Kerala, India
- **Microbiologist** (2002 - 2003)
Co-operative Multi-specialty Hospital, Thalassery, Kerala, India

Awards & Fellowships

- **Chairperson**, Board of Examiners in Microbiology (UG), Kannur University (2024 - Present)
- **Member**, Board of Studies in Microbiology (UG & PG), Kannur & MG Universities (2018 - Present)
- **Faculty in Science** (Microbiology combined), Kannur University-2025 onwards
- **FLAIR Member**, Directorate of Collegiate Education, Govt. of Kerala (2016)

- **Qualified -National Eligibility Test (NET)** for Lectureship
- **International Travel Grants**, DST & UGC-CSIR, Govt. of India (2010, 2012)
- **Postdoctoral Fellowship**, KSCSTE, Govt. of Kerala (2009)

Membership in Professional Societies:

- Microbiological Society of India -Life member (MSI)

Research Publications:

- Sinosh Skariyachan, Akshita, **Vinod Naracham Veettil**, Rachana et al (2024). Unveiling the potential of Hamigeran-B from marine sponges as a probable inhibitor of Nipah Virus RDRP through molecular modelling and dynamics simulation studies. SAR QSAR Environ Res. (12): 1173-1197.
- Ramesan CKV, **Vinod NV**, Skariyachan S (2022). Antimicrobial peptide resistance and scope of computational biology in antimicrobial peptide research. Antimicrobial peptides. Challenges and future perspectives, (Eds: K. Ajesh and K. Sreejith). Chapter 14, pp. 261-295. Academic Press, Elsevier. *Equally contributed. (Invited Chapter) (<https://www.sciencedirect.com/science/article/abs/pii/B9780323856829000076>)
- **Vinod.N.V**, Megha Krishnan and Sindoor Balan (2021) Genotoxicity and Bacteriological analysis of drinking water sources at an edosulfan affected region of kasaragod. Research Journal of GASC, Vol 11,2,21-24. (<https://www.gasckkd.ac.in/wp-content/uploads/2023/03/Journal-July-2021.pdf#page=26>)
- **Vinod.N.V**, Shijina.R, Dileep.K,C.Sadasivan (2010). Inhibition of betalactamase by 1,4-Naphthalenedione from the plant *Holoptelea integrifolia*. Appl Biochem Biotechnol.160:1752-1759.
- **N.V.Vinod**, M,Haridas and C.Sadasivan(2010). Antibacterial principle against beta lactam resistant *S.aureus* from *Holoptelea integrifolia*. Ind J of Biophy and Biochem. 47, 53-55.
- **N.V.Vinod** and C.Sadasivan (2010). Screening of medicinal plants for antibacterial principles against β -lactam resistant strains.Ind.J of pharmacology.43,91-92.
- K.V.Dileep, I.Tintu, **N.V.Vinod**, P.P.Saliha, C.Sadasivan (2011).Role of invariant water molecules in retaining the active site geometry of betalactamase: a molecular dynamic simulation study. Molecular simulation:1-5.

Publications in Proceedings/Conferences:

- **N.V.Vinod** and M.Haridas. ‘**The effect of Mg and Ca ions on the antimicrobial activities of lactoperoxidase**’ presented at the International Conference on Antimicrobial Research held at **Lisbon, Portugal** on 23-25 November, 2012.
- **N.V.Vinod** and C.Sadasivan. ‘**Inhibition of beta lactamase by hydroquinone and its molecular modeling interaction studies**’ International Conference on Antimicrobial Research held at **Valladolid, Spain** on 3-5 November, 2010.
- **N.V.Vinod** and C.Sadasivan. ‘**Identification of antibacterial compound from *Holoptelea Integrifolia* against betalactam resistant strain of *S.aureus***’ at 20th Kerala Science Congress, Thiruvananthapuram 2007 shortlisted and contested for the young scientist award.
- K.V.Dileep, **N.V.Vinod** and C.Sadasivan. ‘**Studies on molten globule state of beta lactamase and its affinity towards substrate**’ at 21th Kerala Science Congress, Thrissur, 2009 shortlisted and contested for the young scientist award.
- M.Haridas, **N.V.Vinod** and C.Sadasivan. ‘**New trends in fermentation technology**’ Proceedings 2005 organized by the Punjab University, Patiala,India.
- **N.V.Vinod** and C.Sadasivan. ‘**Evaluation of Nutraceuticals (Functional Foods) that Prevent Diseases**’ Proceedings organized by the School of Health Sciences, Kannur University from 29th November to 1st December 2006.

Seminars/Workshop:

- UGC refresher course at Kannur University, Kannur, Kerala, India from 26-09-2023 to 9-10-2023
- University Grant Commission refresher course of National science academy at Central university of Punjab, Bathinda, Punjab, India from 5 - 20th March 2019.
- UGC refresher course at Kaumuan University, Nainital, Utharaghand, India from 2 - 28th Nov 2016
- UGC Orientation Programme at Jawaharlal Nehru University, New Delhi, India from 6th April -1st May 2015.

- Workshop on Academic Writing and Publishing conducted by the Kerala State Higher Education Council Thiruvananthapuram, Kerala, India on March 24-25,2015.
- UGC Sponsored National workshop on Bioinformatics and Genome Analysis for College teachers, conducted by Department of Zoology, Nesamony memorial Christian College, Marthandam, Tamil Nadu, India on August 11 and 12, 2014.
- International symposium of Allium workers conducted by School of Health Science, Kannur University, November 2006.
- Bioinformatics training for trainers at IMTECH, Chandigarh, Punjab on March 2018.