

P.K.Rethikala

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Mundakathil,
Thottapally P.O., Alappuzha, Pin: 688563, Kerala, India.
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Assistant Professor,
Department of Chemistry,
SD College, Alappuzha

PERSONAL DETAILS:

Date of birth: 27-04-1984
Marital Status: Married

EDUCATIONAL QUALIFICATIONS:

Ph D

Sree Chitra Tirunal Institute for Medical Sciences and Technology, Trivandrum January 2017

Master of Philosophy (Chemistry)

School of Chemical Sciences, 2007 – 2008
Mahatma Gandhi University, Kottayam, Kerala, India

Master of Science (Chemistry)

School of Chemical Sciences, 2005 – 2007
Mahatma Gandhi University, Kottayam, Kerala, India

Bachelor of Science (Chemistry)

DevaMatha College 2002 – 2005
Kuravilangadu,
Mahatma Gandhi University, Kerala, India

Qualified *National Eligibility Test (UGC) 2009 for Lectureship*

Qualified *Graduate Aptitude Test (GATE) 2010*

Award *President's Guide Award 1999*

Fellowship *KSCSTE Research Fellowship*

RESEARCH EXPERIENCES

M.Sc project at the Department of Inorganic and Physical Chemistry, Indian Institute Of Science, Bangalore, from February -June 2007, under the supervision of Prof. S Umapathy, in the field of computational chemistry and the thesis was entitled as 'Computational studies of Vibrational Circular Dichroism of Chiral Molecules'.

M.Phil project at the School of Chemical Sciences, Mahatma Gandhi University, Kottayam, 2007-2008, under the supervision of Dr.I.Ibnusaud, in the field of Organic synthesis and the thesis was entitled as 'Synthesis of chiral calixarenes based on(2S,3S)- tetrahydro -3-hydroxy-5-oxo-2,3-furandicarboxylicacid'

Scientific Assistant at Sree Chitra Tirunal Institute for Medical Sciences and Technology, Trivandrum August 2009-February2010-Experienced in synthesis and characterization of various biodegradable polymers used for biomedical applications

PhD work at Sree Chitra Tirunal Institute for Medical Sciences and Technology, Trivandrum under the guidance of Dr.V Kalliyana Krishnan and the thesis title is 'Novel antimicrobial and growth factor releasing hydrogel system for burn wound management'

Supervised an MSc Project titled 'Synthesis Of Nano-Silica From Grass Grain And Its Effect Dielectric And Thermal Properties Of Epoxy Composites' in August 2023

TEACHING EXPERIENCE

Guest Lecturer, PG and Research Department of Chemistry, Santana Dharma College Alappuzha, August 2016 -September 2021

PATENT

1. Venkiteswara Kalliyana Krishnan, Lissy Kalliyana Krishnan, Rethikala Pandikkappallil Kumaran; An Antimicrobial Wound Dressing. Indian Patent Application No. 201641026539 Dated 3.8.2016

JOURNALS/CONFERENCE ATTENDED

1. P K Rethikala and Krishnan.V Kalliyana 'Photo-polymerizedpoly (2-hydroxyethyl methacrylate) / PCL / PEG system as a potential wound dressing material' Journal of bioactive and compatible polymers 2015, 30(1), 74-86

- 2 Rethikala P Kand V.Kalliyankrishnan. *'In Vitro Release Study And Antimicrobial Property Evaluation Of Ofloxacin Loaded Poly (2-Hydroxyethyl Methacrylate) / Poly (Caprolactone) / Poly (EthyleneGlycol) Hydrogel System For Burn Wound Management'* Journal of Drug Delivery and Therapeutics 2017, 7(1) , 13-20
- 3 Rethikala P Kand V.Kalliyankrishnan. *'Studies on Development of Novel Polymer Scaffolds for Skin Tissue Engineering Application'* National seminar on Polymers in Medicine and Biology, at Bannari Amman Institute of Technology, Coimbatore, January 2011
- 4 Rethikala P K and V.Kalliyankrishnan. *'Fabrication and Characterization of Photocrosslinkable Poly (2-hydroxyethyl methacrylate) Based Hydrogels For Wound Dressing Applications'* International Conference FAPS-MACRO, at Indian Institute of Science, Bangalore, May 2013

TECHNICAL SKILLS

- Well versed in the operation of instruments such as Fourier Transform Infrared Spectrophotometer, Fourier Transform Raman Spectrophotometer, Universal Testing Machine, UV-Visible Spectrophotometer and HPLC.
- Excelled in softwares-Origin, Adobe Photoshop and MS Office.

DECLARATION

I hereby declare that the above details are correct and true to the best of my knowledge

Place:Alappuzha

Date: 10/02/2024

Signature