

Prof. (Dr.) K. SREEJITH, M.Sc, M.Phil, Ph.D
Dean, Faculty of Science



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Residence : 'Neeranjanam'
Keloth, Vadakkumbad PO, Thalassery, Kerala – 670 105

Age & Date of Birth : 51 Yrs, 02.01.1970

Educational Qualifications:

Ph.D. Biochemistry, Mahatma Gandhi University, Kerala, 2000
M.Phil. Biophysics, Mahatma Gandhi University, Kerala, 1993
M.Sc. Biochemistry, Mahatma Gandhi University, Kerala, 1992
B.Sc. Zoology, University of Calicut, Kerala, 1990

- No. of PhDs awarded under Guidance: 5
- No. of PhD students presently under Guidance: 5

Position held in Academic /Administrative Bodies:

Presently:

- 01 Member, Syndicate, Kannur University, since, 10.03.2020
- 02 Dean, Faculty of Science, Kannur University, since 13.01.2020
- 03 Member, Faculty of Science, Kannur University, since 06.03.2012
- 04 DBT- Govt. of India Nominee, Institutional Bio-Safety Committee, Malabar Cancer Centre, Kerala, since 03.02.2017
- 05 Institutional Co-Ordinator, RUSA, Kannur University, since 24.01.2017
- 06 Member, Governing Council, RUSA, Kannur University, since 24.01.2017
- 07 Member, Doctoral Committee in Life Sciences, Kannur University, since 25.05.2016
- 08 Member, Institutional Bio-Safety Committee, Central University of Kerala, Kasaragod. Since 29.04.2014
- 09 Member, Institutional Bio-Safety Committee, Kannur University, Kerala, since 19.01.2012
- 10 Member, Institutional Animal Ethical Committee, Kannur University, Kerala, since 14.05.2010
- 11 External Expert, Scientific Review Board, Malabar Cancer Centre, Kerala, since March 2010
- 12 Adjunct Faculty, Inter University Centre for Biosciences, Kannur University, since 05.12.2009
- 13 Coordinator, UGC-NET Coaching for students belonging to SC/ST &Minority, 15.02.2008
- 14 Advisory committee for SC/ST, Kannur University, since, 2009

Previously:

- 01 Director, Research Directorate, Kannur University, 01.02.2018 – 23.03.2020
- 02 Head, Dept. of Biotechnology & Microbiology, Kannur University 17.04.2013- 24.05.2016
- 03 Research Centre Head, Herman Gundert Central Library, Kannur University 01.09.2019- 23.03.2020
- 04 Vice Chairperson, Institutional Committee for Stem Cell Research, Central University of Kerala, 29.11.2017- 28.11.2019
- 05 Member, IQAC, Kannur University, 01.04.2017 – 15.03.2020
- 06 Chairman, PG & UG Board of Studies in Microbiology, Kannur University, 23.11.2010 - 22.11.2012 & 06.08.2018 - 05.08.2020
- 07 Chairman, PG & UG Board of Studies in Biotechnology, Kannur University, 10.07.2013 - 09.07.2015 & 09.12.2015 - 08.12.2017
- 08 Chairman, Doctoral Committee in Life Sciences, Kannur University, 17.04.2013- 24.05.2016
- 09 Member, Academic Council, Kannur University, 17.04.2013 - 24.05.2016
- 10 Member, Doctoral Committee in Life Sciences, Kannur University, 16.07.2012- 16.04.2013
- 11 Member, PG & UG Board of Studies in Microbiology, Kannur University,
- 12 Member, PG & UG Board of Studies in Biotechnology, Kannur University, 23.11.2010 - 22.11.2012
- 13 Member, PG Board of Studies, in Biochemistry, Calicut University, 30.03.2010 - 29.03.2012
- 14 Member, UG Board of Studies in Biophysics, Calicut University, 16.01.2007- 15.01.2009
- 15 Programme Officer, National Service Scheme, Kannur University 11.12.2006 - 20.04.2012
- 16 Coordinator, Career Guidance Cell, Kannur University, 28.11.2011
- 17 Coordinator, Inculcate Programme, Govt. of Kerala, Kannur University, 2010-2011

PG Teaching & Other Experience: 19 years:

DESIGNATION	PLACE OF WORK	FROM	TO
Professor	Dept. Biotechnology & Microbiology, Kannur University, Kerala.	03.06.2014	Till date
Associate Professor	Dept. Biotechnology & Microbiology, Kannur University, Kerala.	03.06.2011	02.06.2014
Reader	Dept. Biotechnology & Microbiology, Kannur University, Kerala.	03.06.2008	02.06.2011
Lecturer (Joined Kannur University Regular Service)	Dept. Biotechnology & Microbiology, Kannur University, Kerala.	03.06.2003	02.06.2008
Biochemist (Kerala PSC Recruitment)	Government TD. Medical College, Alappuzha, Kerala,	11.11.2002	02.06.2003
Lecturer (Appointment on Contract)	Dept. Biotechnology & Microbiology, Kannur University, Kerala.	01.11.2000	08.11.2002
Biochemist (Employment Exchange Scheme, Kerala)	Government Medical College, Kottayam, Kerala	20.03.1997	19.03.1998

Research Expertise & Interest

Broad Area of Interest: Antimicrobial Peptides & Cancer Biochemistry

Specifically: Antimicrobial properties of Peptides of Bacterial origin & Activities of Bio-molecules from medicinal plants and their beneficial effects on Cancer and Poly Cystic Ovary Syndrome.

Universities / Institutes visited abroad

- University of Amsterdam, The Netherlands, 2016
- University of Lisbon, Lisbon, Portugal, 2012
- TRE University, Roma, Italy, 2012

Projects Undertaken

Kannur University Minor Research Project 2018

Project Title: Evaluation of the Effect of Adipocyte on Pyruvate Kinase Signaling in Breast Cancer Cell

Duration: 16 months,

Amount: 04 Lakhs

Research Publications:

1. Shabeer Ali H, Ajesh K, Dileep KV, Prajosh P, **Sreejith K**
Structural characterization of Kannurin isoforms and evaluation of the role of β -hydroxy fatty acid tail length in functional specificity
Scientific Reports, 2020, 10 (1),1-12, Nature Publishing Group, **IF: 4.01**
2. Shabeer Ali H, Prajosh P, Shruthi P Nath, **Sreejith K**
Influence of Lipopeptide Biosurfactant 'Kannurin' on Petrochemical Consumption Exhibited by *Bacillus cereus* AK1
Pollution Research 2019, Vol 38 (3) 844-851, EM International Publishers
3. Jenson J, **Sreejith K**
Antioxidant and anti-inflammatory properties of *Pterospermum rubiginosum* Heyne Ex Wight & Arn and *Pterospermum reticulatum* Wight&Arn (sterculiaceae):an in vitro comparative study.
Asian Journal of Pharmaceutical and Clinical Research, 2019, Vol 12, (2), 272-275
4. Ajesh K, Nagaraja BK, **Sreejith K**
Kysanur Forest Disease Virus (KFDV) Breaking the Endemic Barrier: An Investigation into Ecological Effects on Disease Emergence and Future Outlook
Zoonoses and Public Health, 2017, Vol.64 (7) 73-80, Wiley-Blackwell Publishers, **IF: 2.46**
5. Sandeep PM, Bovee THF, **Sreejith K**
Anti-androgenic activity of *Nardostachys jatamanasi*.DC and *Tribulus terrestris*. L with their beneficial effects on PCOS Induced Rat models
Metabolic Syndrome & Related Disorders, 2015, 13(6)248-54, Mary Ann Liebert Publishers, **IF: 2.00**
6. Ajesh K, **Sreejith K**
A novel antifungal protein with Lysozyme-like activity from seeds of *Clitoria ternatea*
Applied Biochemistry & Biotechnology,2014,173:682–693, Springer–Nature Publishers, **IF: 2.27**
7. Shabeer Ali H, **Sreejith K**
Multi-targeted action of a plant derived flavonoid glucoside 'apigetrin' against important macromolecular targets in cancer - An *in-silico* validation
International Journal of Pharma and Biosciences, 2014, 5(3): 478 - 490
8. Ajesh K, **Sreejith K**
Disease of the shells of Indian apple snails (Ampullariidae: *Pila globosa*)
Ruthenica – Russian Malacological Journal, Vol. 24 (1): 31-33, 2014, Russian Academy of Sciences Publishers

9. Ajesh K, Sudarshala S, Arunan C, **Sreejith K**
Kannurin, a novel lipopeptide from *Bacillus cereus* strain AK1: isolation, structural evaluation and antifungal activities.
Journal of Applied Microbiology, 2013, 115(6):1287-1296, Wiley-Blackwell Publishers, **IF: 3.06**
10. Ajesh K, **Sreejith K**
Cryptococcus laurentii Biofilms: Structure, Development and Antifungal Drug Resistance.
Mycopathologia, 2012; 174(5-6): 409-419, Springer–Nature Publishers, **IF: 2.45**
11. Ajesh K, **Sreejith K**
Peptide antibiotics: An alternative and effective antimicrobial strategy to circumvent fungal infections.
Peptides, 2009, 30, (5) 999-1006. Elsevier Publishers, **IF: 2.88**
12. Benny PJ., Kurup GM., **Sreejith K**
Levels of enzymes in tumor bearing mice treated with L- Asparaginase isolated from *Aeromonas*.
Indian Journal of Clinical Biochemistry, 1999, Vol. 14 (2), 189-197, Springer–Nature Publishers.
13. Benny PJ., Kurup GM., **Sreejith K**.
Lipid metabolism in tumor bearing mice treated with *Aeromonas* L - Asparaginase.
Indian Journal of Clinical Biochemistry, 1997, Vol.12, 108 – 113, Springer–Nature Publishers
14. Benny PJ., Kurup GM., **Sreejith K** and Jayashree G.
Protein and glycoprotein metabolism in tumor bearing mice treated with *Aeromonas* Asparaginase.
Indian Journal of Biochemistry and Biophysics, 1996, Vol. 33, 527-530, Scientific Publishers

Chapter in Books:

1. Ajesh K, **Sreejith K**
“Purification and characterization of antifungal lipopeptide from a soil isolated strain of *Bacillus cereus*”. In: Worldwide Research Efforts in the Fighting against Microbial Pathogens: from Basic Research to Technological Developments, Brown Walker Press / Universal Publishers, Inc. USA, 227-231(2013)
2. Shabeer Ali H., Tripathi Renu, **Sreejith K**.
“Plant Metabolites: Methods for Isolation, Purification, and Characterization” In: Plant Metabolites: Methods, Applications and Prospects, Springer Nature Singapore Pte Ltd. 2020 (in press)

GenBank Entries:

1. Palanthara,P. & **Sreejith, K.** (2019)
Bacillus tequilensis strain PP1 16S ribosomal RNA gene, partial sequence: GenBank: MK648314.1
2. Palanthara,P. & **Sreejith, K.** (2019)
Bacillus subtilis strain PP1 16S ribosomal RNA gene, partial sequence: GenBank: MK649812.1
3. Palanthara,P. & **Sreejith, K.** (2019)
Bacillus subtilis strain PP2 16S ribosomal RNA gene, partial sequence: GenBank: MK649931.1
4. Ajesh, K. & **Sreejith, K.** (2012)
Bacillus cereus strain AKN1 16S ribosomal RNA gene, Partial 1 sequence GenBank: JX512716.1

Papers in International Conferences:

1. Shabeerali H & Sreejith K “*Isolation of a Lipopeptide Biosurfactant from Bacillus Cereus AK1 that can be used as a Potential Anti-Adhesive Coating Agents for Medical Insertion Materials*” 26th European Congress of Clinical Microbiology & Infectious Diseases, Amsterdam (**Netherlands**), April 9-12, 2016
2. Ajesh K & Sreejith K “*Characterization of Surfactin like antifungal lipopeptide produced by a soil isolate of Bacillus cereus strain AK1*”, IVth Indian Peptide Symposium, Kolkota, February 22-23, 2013
3. Sudarshlal S, Divya Nair, Ajesh K, Bipin Nair & Sreejith K “*Mass spectrometric characterization of lipopeptides from Bacillus cereus-AK1*” International Conference on Biotechnology for Innovative Applications, 2013. Kollam, India, Aug10-14, 2013
4. Ajesh K & Sreejith K “*Purification and characterization of antifungal lipopeptides from a soil isolate strain of Bacillus cereus*” II International Conference on Antimicrobial Research - ICAR2012, **Lisbon (Portugal)**, 21-23 November 2012.
5. Sandeep PM & Sreejith K “*In vitro screening of plants for antiandrogenic activity using yeast androgen bioassay*” International Conference on Advances in Biological Sciences (ICABS 2012), March 15-17, 2012, Kannur, India.
6. Alex CV & Sreejith K, “*Comparative study of pronuclear and cleavage stage embryos on cryo survival based on different age groups*” International Conference on Male Reproduction and Infertility, Indian Institute of Science. Bangalore, India. Sept. 16-18 2005.

Papers Presented in National Conferences:

1. Shabeer Ali H & K. Sreejith, Time Kill Kinetics to Demonstrate the Synergistic Effect of a Cyclic Lipopeptide ‘Kannurin’ in Combination with beta lactams against Staphylococcus. Three Day National Seminar on Recent Advances in Molecular Biology & Biotechnology (RAMBB2018), Kannur University March 14-16, 2018
2. Prajosh P & Sreejith K, Isolation and Identification of Biosurfactant Producing Bacillus Sp from Coir Industry Waste. Three Day National Seminar on Recent Advances in Molecular Biology & Biotechnology (RAMBB2018), Kannur University March 14-16, 2018.
3. Zephyr C. Kottayil, K. Surekha, E. Jayadevi Variyar & K. Sreejith, Molecular studies on Staphylococcal surface protein. Three Day National Seminar on Recent Advances in Molecular Biology & Biotechnology (RAMBB2018), Kannur University March 14-16, 2018.
4. Jenson Jacob & Sreejith K, Invitro Anti-inflammatory activity of methanolic extract of Mallotus philippensis bark in Lipopolysaccharide induced mouse RAW 264.7 cell lines. Three Day National Seminar on Recent Advances in Molecular Biology & Biotechnology (RAMBB2018), Kannur University March 14-16, 2018.
5. Prajosh P., Sreejith K, Isolation and purification of a galactose specific lectin from *Muringa oleifera* and its antimicrobial activities. 30th Kerala Science Congress, Thalassery, Kerala, 28-31 January 2018
6. Shabeer Ali H., Anagha V.N., Sreejith K, Presence of a neuromuscular blocking agent in non-brown recluse spider nest: A potential drug lead for anesthetic practices. 30th Kerala Science Congress, Thalassery, Kerala, 28-31 January 2018
7. Zephyr.C. Kottayil., K. Sreejith., E. Jayadevi Variyar & K. Surekha, PCR based cloning of ig binding domains of spa protein from Staphylococcus aureus and its molecular characterization. 30th Kerala Science Congress, Thalassery, Kerala, 28-31 January 2018

8. Jenson Jacob & Sreejith K, Pharmacological activities of methanolic extract from *Mitracarpus villosus* in the traditional system of herbal medicine. National Symposium of Biotechnology, Symbiot'14, Manipal Institute of Technology, 11-12 April, 2014
9. Sreejith K, "Kannurin: Formation and Biochemical Aspects". National Conference: New Paradigms in Chemistry *Ab Initio-ad Futurum.*, St. Mary's College Sulthan Bathery, Kerala India, 10th March 2014.
10. Sandeep PM & Sreejith K, In vitro antiandrogenic activity of methanolic extracts of *Embelia ribes* Burm.f and its beneficial role in the treatment of DHT induced PCOS in rats. 26th Kerala Science Congress, Wynad, Kerala, 28-31 January 2014
11. Shabeer Ali H, Haridas M & Sreejith K, Multi targeted action of a plant derived flavonoid glucoside 'Apigetrin ' in cancer and its structural modification to design a MDM2 topoisomerase dual inhibitor – an in silico approach. 26th Kerala Science Congress, Wynad, Kerala, 28-31 January 2014
12. Jenson Jacob & Sreejith K, Pharmacological activities of methanolic extract from *Mitracarpus villosus* in the traditional system of herbal medicine. 26th Kerala Science Congress, Wynad, Kerala, 28-31 January 2014
13. Sreejith K., "Poly Cystic Ovary Syndrome: Fight Continues". National Seminar on Potential of Bioinnovation., Govt. Brennen College, Thalassery, Kerala India, 2nd January 2014.

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