

## **DR. SMITHA K V**



**Designation: Assistant Professor**

**Qualification: Ph. D.**

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Assistant professor Smitha K V completed her Ph.D. from Karpagam Academy of Higher Education (Deemed to be University), Coimbatore, Tamilnadu after completing M.Sc. from Karpagam Arts and Science College, Bharathiyar University, Coimbatore, Tamil Nadu. She has completed her B.Sc. (Chemistry, Microbiology, Botany) From St. Aloysius College Mangalore and also finished Post Graduate Diploma in Computer Application (PGDCA) from Women's polytechnic, Payyanur, Kerala. She has finished training at Microbiology Laboratory, Pariyaram Medical College, Kannur, Kerala. Her major interests rely in doing research, guiding research projects to students inside and outside the college.

### **EDUCATIONAL QUALIFICATION**

- B.Sc.(Chemistry, Microbiology, Botany) from St. Aloysius College Mangalore University
- M.Sc. Microbiology from Karpagam Arts and Science College, Bhrathiyan University
- PGDCA from Residential women's Polytechnique, Board of Education, Ph. D. Microbiology

### **WORK EXPERIENCE**

She joined as a teacher in Patalganga Rasayani Industry Association School, Raigad Dist. Maharashtra. Later she moved to Kerala and appointed as an Assistant professor at the Department of Microbiology, SAFI Institute of Advanced Study (SIAS), Malappuram, Kerala since 2012. She has also appointed as a warden in SIAS Ladies Hostel from since 2012..

## **AERA OF INTERESTS**

- Teaching and Research.

## **PUBLICATION**

- K. V. Smitha and B. V. Pradeep. 2018 Optimization of Physical and Cultural Conditions of Fibrinolytic Enzyme from *Bacillus altitudinis* S-CSR 0020. *Journal of Pure and Applied Microbiology*. Vol. 12(1), p. 343-354.
- K. V. Smitha and B. V. Pradeep. 2017 Application of Box-Behnken Design for the Optimization of Culture Conditions for Novel Fibrinolytic Enzyme Production by *Bacillus altitudinis* S-CSR 0020. *Journal of Pure and Applied Microbiology*. Vol. 11(3), 1447-1456.
- Smitha K V and Nath SS. Activity of novel yellow pigment produced by *Micrococcus yunnanensis* S-CSR-0010 against multidrug resistant *Staphylococcus aureus* and *Pseudomonas aeruginosa*. *Research Journal of Pharmaceutical, Biological and Chemical Sciences* 8(2): 715-22, 2017.
- Afini AVM, Nath SS, Smitha K V and Kunhi AAM. Production and partial characterization of fibrinolytic enzyme from a soil isolate *Aspergillus carbonarius* S-CSR-0007. *International Journal of Pharmacy and Pharmaceutical Sciences* 8(12): 142-48, 2016.
- Faheema C, Smitha K V, Nath SS and Kunhi AAM. Production and partial characterization of a raw starch hydrolyzing enzyme from *Aspergillus carbonarius* S-CSR-0002. *Research Journal of Pharmaceutical, Biological and Chemical Sciences*. 7(6): 2224-36, 2016.
- Nath SS and Smitha K V. Determination of raw starch hydrolytic property of fungal isolates from microbiology laboratory. *International Research Journal of Biological Sciences*. 4 (2): 41-44, 2015.

Smitha K.V., Sooraj S. Nath. , Neja. C. , Pradeep B.V. Mass production of fibrinolytic enzyme from *Bacillus altitudinis* S-CSR-0020 by optimizing physical and medium components manually as well as statistical optimization of nitrogen sources using Response Surface Methodology under proceedings of the national seminar, *Symbiosis 'Research in Agricultural, Environmental, Industrial and Food Microbiology Advances and Challenges* with ISBN No:978-93-5300-740-9.

## **PRESENTATIONS**

Conference Presentations:

State Level:

- Smitha K V and Pradeep BV. Presented paper “Application of Box-Benken design for the optimization of culture conditions for novel fibrinolytic enzyme production using bovine blood clot by *Bacillus altitudinis* S-CSR0020 and its fibrinolytic activity” during 8th Annual Research Congress organized by Karpagam Academy of Higher Education (KAHEARC-2016), India, December, 2016.
- Smitha K V and Pradeep BV. Presented paper “Isolation, production, purification and characterization of fibrinolytic bacterial enzymes from soil isolates” during 7th Annual Research Congress organized by Karpagam Academy of Higher Education (KAHEARC-2015), India, December, 2015.

National Level:

- Smitha K V presented paper “Media optimization of fibrinolytic enzyme from *Bacillus altitudinis* S-CSR 0020” in the 9th Annual research congress KAHEARC-2017, held at Karpagam Academy of Higher Education, Coimbatore, Dec 9, 2017
- Thabsheera MA, Servin Wesley P, Smitha K V, Nath SS and Kunhi AAM. Presented paper “Antibacterial activity of *Abutilon hirtum* extracts against various organisms” during National Conference on Exploring Microbes-2020 (NCEM-2020) organized by Department of Microbiology, Karpagam University, India, August, 2016.
- Amrutha AR, Smitha K V, Nath SS and Kunhi AAM. Presented paper “Study on pigment extracted from *Serratia marcescens* S-CSR-0023 isolated from hospital and optimization of cultural conditions using response surface methodology” during National conference on exploring microbes (NCEM) – 2020, organised by Department of Microbiology, Karpagam University, India, August, 2016.
- Smitha K V, Nath SS, Faheema C and Kunhi AAM. Presented paper “Production and partial characterization of a raw starch hydrolyzing enzyme from *Aspergillus carbonarius* S-CSR-0002” during 9th National Symposium on Modern Biological Sciences (SyMBio's 2016) organised by Department of Bioscience and Research, Shri Nehru Maha Vidyalaya (SNMV) College of Arts and Science under the auspices of Indian Institute of Crop Processing Technology (IICPT) supported by Ministry of Food Processing Industries (MOFPI), India, February, 2016.
- Smitha K V, Nath SS, Kunhi AAM and Pradeep BV. Presented paper “Isolation, production, purification and characterization of fibrinolytic bacterial enzymes from soil isolates” during Biosummit 2016-National Seminar on Insight to Futuristic Bioscience (NSIFB- 2016) organized by Department of Biosciences, Hindustan College of Arts and Sciences, India, January, 2016.
- Smitha K V presented paper “Application of Box- Behnken design for the novel fibrinolytic enzyme production using bovine blood clot” in the 8th Annual research

congress KAHEARC-2016, held at Karpagam Academy of Higher Education, Coimbatore, Dec 3, 2016

- Smitha K V, Nath SS and Kunhi AAM. Presented paper “Antibacterial activity of Myristica fragrans and Crysopogon zizanioides against multidrug resistant organisms” during National Seminar on Medicinal Plants in Primary Healthcare organized by Department of Botany, S. N. College, sponsored by Kerala State Council for Science, Technology and Environment (KSCSTE), Govt. of Kerala, India, September, 2015.
- Smitha K V presented paper “Isolation, Purification and Characterization of Fibrinolytic Enzymes from Soil Isolates” in the 7th Annual research congress KAHEARC-2015, held at Karpagam Academy of Higher Education, Coimbatore, Dec 26, 2015
- Smitha K V, Nath SS and Kunhi AAM. Presented paper “Isolation of a yellow pigment producing bacterium from soil and partial characterization of the pigment” during National Conference on Role of Biopharmaceuticals in Achieving Health by 2020 organized by Department of Biochemistry, Dr. N. G. P. Arts and Science College, sponsored and supported by Indian Council of Medical Research (ICMR), Department of Biotechnology (DBT), Govt. of India as well as Kovai Medical College and Hospitals (KMCH), India, July, 2015.
- Smitha K V, Nath SS, Muhasina K and Pradeep BV. Presented poster “Isolation, production, partial purification and characterization of fibrinolytic enzymes from bacterial soil isolate” during 55th Annual Conference on Empowering Mankind with Microbial Technologies, organized by Association of Microbiologists of India (AMI) under the auspices of Department of Agricultural Microbiology, Tamil Nadu Agricultural University (TNAU), India, November, 2014.

C. International Level:

- Smitha K V, Pradeep B.V “Statistical Optimization of Fibrinolytic Enzyme production from *Bacillus altitudinis* S-CSR 0020” at an e-conference " International Conference on Advanced Science Hub ICASH-2021" through online mode on 26th and 27th June 2021, Coimbatore, India.
- Smitha K V, Fathima T T “Characterisation, partial purification and application studies of pigment produced by *Chromobacterium violaceum* from paddy field” at Two-day international conference on Emerging strategies in Antimicrobial Agents and Bio-Innovations (ESAB) organized by school of science, R K University Main Campus, Gujarat on 18th and 19th December 2020.
- Smitha K V “Isolation of carotenoid pigment from *Bacillus subtilis* during sporulation and its application studies” at International symposium on Eco-friendly technologies for a sustainable future, organized by PG and Research Department of Microbiology, Hindusthan Arts and Science college, Coimbatore on February 19, 2020.
- Leeshma K P and Smitha K V. Isolation, characterization and purification of pigment producing bacteria from paddy field soil and its applications during international conference Biocommercium” on 7th August 2019 at Safi Institute of Advanced Study (SIAS).

- Smitha K.V., Sooraj S. Nath. , Neja. C., Pradeep B.V.. “Statistical optimization of carbon sources, partial purification, immobilization and characterization of fibrinolytic enzyme from *Bacillus altitudinis* S-CSR-0020”. MESMAC International conference (MESMAC-2018) organised by MES arts and science college, Mampad, January 2018

## **CONFERENCE PARTICIPATION**

### **A. National Level:**

- 1) Participated in the one day workshop on “ Dimensions of Intellectual Property Rights in Science and Technology Progress” jointly organized by SAFI Institute of Advanced Study (SIAS), India and Patent Information Centre-Kerala/KSCSTE, held at SAFI Institute of Advanced Study (SIAS), India, on March 13th 2018.
- 2) Seminar on Recent Developments and Challenges in Science and Technology for Specially Abled Persons” during National Science Day Celebration organized by Department of Biotechnology sponsored by Kerala State Council for Science Technology and Environment (KSCSTE), SAFI Institute of Advanced Study (SIAS), India, February, 2017.
- 3) National Seminar on “Microbiology and Public Health: Emerging Diseases-Management and Prevention” organized by Department of Microbiology, Pazhazzi Raja College sponsored by University Grant Commission (UGC), India, November, 2012.

## **FDP ATTENDED**

- National level online **faculty development program** on Moodle by MES College Marampally during 19<sup>th</sup> to 23<sup>rd</sup> May 2020
- Unleash your potential by WDC and IQAC, SIAS during 19<sup>th</sup> and 20<sup>th</sup> May 2020
- **Faculty Development program** on E learning by ECDC and IQAC SIAS during 3<sup>rd</sup> to 4<sup>th</sup> June 2020
- 5 Day **FDP** for the faculty members from science disciplines in the state universities and affiliated colleges. “Online Education in Higher Education Institutions” by Faculty Development Centre of the Kerala State Higher Education Council (KSHEC), Thiruvananthapuram
- 8-day Online **Faculty Development Programme** for College Teachers organized by Internal Quality Assurance Cell (IQAC), Farook College (Autonomous),

Kozhikode under PARAMARSH Scheme of UGC during 17<sup>th</sup> July to 25<sup>th</sup> July, 2020

- Technology Enabled Teaching and Learning by Internal Quality Assurance Cell, MES Kalladi College, Mannarkkad on 18<sup>th</sup> July 2020
- Mending the Mentees Advisory Committee and IQAC, SIAS on 17<sup>th</sup> May 2021
- One-week **Faculty Development Programme** (FDP) on Edu. Tech Hands-on Online for the faculty members of the state universities and affiliated colleges. by The Faculty Development Centre of the Kerala State Higher Education Council (KSHEC), Thiruvananthapuram
- One-week **Faculty Development Programme** (FDP) on Edu. Tech Hands-on Online for the faculty members of the state universities and affiliated colleges. by The Faculty Development Centre of the Kerala State Higher Education Council (KSHEC), Thiruvananthapuram during 23<sup>rd</sup> to 28<sup>th</sup> June 2021
- E-Learning by E Content Development Cell and IQAC, SIAS during 3<sup>rd</sup> and 4<sup>th</sup> June
- Prudent Teaching Dynamics SIAS IQAC, SAFI Institute of Advanced Study during 21<sup>st</sup> to 28<sup>th</sup> June

## WORKSHOPS/ TRAINING ATTENDED

- Dimensions of Intellectual Property Rights in Science and technology Progress Jointly organised by SAFI Institute of Advanced Study Vazhayoor and Patent Information Centre, Kerala/KSCSTE, held at SIAS on 13<sup>th</sup> March 2018
- Social Dimensions in education and E-learning Resources as part of Faculty enrichment programme, SAFI Institute of Advanced Study on 8th June 2019
- One day workshop on Institutional documentation in higher education for Mentee colleges under the PARMARSH scheme, jointly organised by IQAC, Farook College and Roulathul Uloom Arabic College, held at Roulathul Uloom Arabic College on 25th February 2020
- One day workshop on Institutional documentation in higher education for Mentee colleges under the PARMARSH scheme, jointly organised by IQAC, Farook College and Roulathul Uloom Arabic College, held at Roulathul Uloom Arabic College on 25th February 2020
- One day workshop on Institutional documentation in higher education for Mentee colleges under the PARMARSH scheme, jointly organised by IQAC, Farook College and Roulathul Uloom Arabic College, held at Roulathul Uloom Arabic College on 25th February 2020

- Go Patent - Protect Intellectual Property by Department of Microbiology in association with IPR CELL and KAHE-IIC Karpagam Academy of Higher Education, Coimbatore, Tamil Nadu, India on 30th December 2020
- Infrastructure and Learning Resources for Mentee Colleges8 under the PARAMRSR scheme jointly organised by IQAC Farook College and IQC Malabar College of Advanced studies, Vengara on 18th February 2020
- NPTEL-E awareness workshop on 5th May 2021
- Training on Bio-Tools and software's Organised by Department of Biotechnology SAFI Institute of Advanced Study, Malappuram 9th to 11th December 2015
- Climate crisis- science –economy-politics University union, Calicut University in association with the Department of Environmental studies and Friends of Nature. on 8th December 2019
- Food Allergy Online Training, Food Standards Agency (Food.Gov.UK) on 29th April 2020
- Online Scientific Writing Program- Structuring the manuscript to impress journal editors selecting a journal a repairing a great submission package- Global Training: Editage, By Cactus, India Bioscience on 21st May 2020
- Basic Approaches on Academic Writing online Research Directorate, IQAC and Dept. of MB, SIAS on 29th May 2020
- NPTEL Local Chapter SIAS online Swayam NPTEL Local Chapter on 18th June 2021

#### **OTHER DUTIES (INTERNAL/EXTERNAL)**

##### **Internal duties:**

- **Warden, SIAS-Ladies Hostel** ( 2012 to present day)
- **Fine –Arts Director** (2018 to present day)
- **NAAC-Criteria 4 Leader** (till date)
- **NAAC Steering Committee member** (2017 to present day)
- **Asst. Convenor Career Guidance cell** (2019 to present day)
- **Women cell, member** (2019-present day)
- **Sports committee member** (2019 to present day)
- **Substance abuse and prevention cell member** (2017 to present day)
- **Head, Department of Microbiology** (2014 to 2016)
- **Member, ICC** (2021-22)
- **Member, Placement cell** (2021-22)
- **Member, Discipline Committee; SIAS Staff Council** (2015 to 2017)
- **Women cell director** (2016)
- **Internal Exam committee- member** (2016)

- **Internal exam Committee Asst. Convenor** (2017)
- **Fine- Arts Committee member** (2016 to 2017)
- **Anti- ragging committee- Member** (2016 to 2018)
- **Election committee member** (2017 to 2019)
- **NSS advisory committee member** (2017 to 2019)

**External duty:**