Name of Faculty

Dr B. Sumithra

Designation

Asst. Professor

Nature of Job/Appointment

Regular

Date of Joining

07 - 10 - 2021

E-mail

Sumithrab\_biotech@cbit.ac.in

Reducation Qualifications

Name of the Degree

Ph. D

Doctor of Philosophy (Biotech



Class

PG

UG

Doctor of Philosophy (Biotechnology)

M. Tech. (Biotechnology)

Awarded

B. Tech. (Biotechnology)

First Class

**Work Experience** 

Teaching 1.5 Years

Research 1 with teaching)

Industry 06 months

Others

Area of Specialization Genetic engineering, Insilico data analy

Genetic engineering, Insilico data analysis & Medical Biosensors

Professional Memberships

- 1. International Biodeterioration and Biodegradation Society, United Kingdom.
- 2. Membership in Indian Initiative for Management of Antibiotic Resistance.

Responsibilities held at Institution Level

Responsibilities held at Department

- 1. Academic Performance Indicator-2
- 2. Higher Studies Information / Admission -2
- 3. 4/4 year all survey collection-2
- 4. Industrial visit arrangement / Data/ Pictures/ Report-2
- 5. Minor Engineering coordinator-2
- 6. Students and Faculty awards database coordinator-2
- 7. Mentor for students
- 3. Honors degree -- 2019 admitted batch
- 9. Internships Dept level coordinator-2
- 10. Member, Course Expert Group (CEG)
- 11. Coordinator, BBCC, Dept. Club
- 12. Dept. Time Table Coordinator

Research Guidance

**Awards Received** 

Level

Courses Handled at Under Graduate / Post Graduate Level.

- Bionanotechnology
- 2. Basics of Biology
- 3. Cancer Biology
- 4. Genetic engineering Laboratory
- 5. Immunology Laboratory
- 6. Fermentation Laboratory
- 7. 7. Plant tissue culture Laboratory

No. of Papers Published

National Journals - - International Journals - 3

National Conference - 01

International Conference - 08

**Projects Carried out** 

\_\_

**Patents** 

**Technology Transfer** 

**Invited Speaker** 

1. Kanagaraj Suganya, Balraj Sudha, Bishwambhar Mishra, Bapatla Sumithra, Sanjeeb Kumar Mandal, Sundaravadivelu Sumathi Marine Microbes as a Resource for Novel Enzymes. In: Sanjay Kumar, Narendra Kumar, Shahid-ul-Islam (eds) Role of Microbes in Industrial Products and Processes. John Wiley & https://doi.org/10.1002/9781119901198, Name: John Wiley & Sons.ISBN: 978-1-119-901198

- Pooja Aich, Balraj Sudha, Kanagaraj Suganya, Bishwambhar Mishra. Bapatla Sumithra ,Sanjeeb Kumar Mandal. Sundaravadivelu Sumathi Recovery of Valuable Products Vegetable Wastes. In: Sanjay Kumar, Narendra Kumar, Shahid-ul-Islam (eds) Role of Microbes in Industrial **Products** and Processes. John Wiley Sons. https://doi.org/10.1002/9781119901198 Publisher Name: John Wiley & Sons. ISBN: 978-1-119-901198
- B Sumithra, Sanjeeb Kumar Mandal, B Bishwambhar Mishra, Mounika KVSSN, Caleb Joel Raj J, Aishwarya CVS (2022) "Plant-derived drugs for Alzheimer's and other neurological disorders", Phytomedicine: Insights into Tropical Medicinal Plant. Springer [accepted]
- Caleb Joel Raj J., Aishwarya CVS, Mounika KVSSN, Bishwambhar Mishra, Sumithra B., Bhushan Vishal and Sanjeeb Kumar Mandal (2022) "Deciphering the Nexus between Oxidative Stress and Spermatogenesis: A Compendious Overview", Oxidative Stress and Toxicity in Reproductive Biology and Medicine: A Comprehensive Update on Male Infertility- Volume One. Springer [accepted]
- Attended webinar on "3D bio printed Humanized Disease Organ Models for Drug Discovery", FABA Academy, 24th june 2022
- Workshop on "Animal cell culture techniques"- NIPER HYD. 23rd May to 3rd june 2022
  - IQAC cell in house training CBIT Hyderabad, 23rd and 30th April
- "Advanced Integrated Tools for Research in Marine Biology and Biotechnology" Sathyabama Institute of Science and Technology, 25th April to 29th April 2022
- Workshop on "Scientific Communications" (CSIR-NPL INTEGRATED SKILL INITIATIVE Programme), 25-3-2022 to 26-3-2022
- 5 day- International Workshop on Translational Research Taking Novel Drugs from Lab to Clinic: Concepts and Case Studies, DNDi-BRBC, March-2022
- Next Generation Medical Devices: focusing on therapeutics and diagnostics, iNSERB-NIT Rourkela 7-11 Feb, 2022
- Functional Foods for Healthier Life: A Post COVID Perspective, Haldia institute of technology, 31st Jan 22
- Completed " Patent analytical course" organized by Turnip Innovations, Dec 8th to 17th 2021
- 10. Online Webinar on "Research Dissemination and increasing impact. Conducted by Taylor & francis group, November 25th, 2021
- 11. Online Webinar on "Excellence in peer Review: How to be an effective Reviewer" conducted by Taylor & Francis group, 23rd November,2021
- 12. Completed online ATAL- FDP on "Data Science" organized by School of Computer Science and Information Technology, MANUU university, Hyderabad, Telangana, November 22nd26th 2021
- 13. Completed online ATAL FDP on "Regaining Effective Creativity and Peace of Mind" organized by MCNUJC Bhopal, November 15th-19th 2021

No. of Books/Chapter Published with details



Details of Short-Term Training Programs/Faculty Development Programs/Seminars/Workshops.Other **Trainings** (Attended and/or Organized).

- Workshop on "Next generation sequencing data analysis for clinical diagnostics", organized by National genomics core, at CDFD, Hyderabad, June, 2021.
- 15. National workshop on "High Through-put Biological Data Analysis", at Andhra University, Vishakhapatnam, Feb 2016.
- National workshop on "Continuous medical education on clinical immunology past & present", organized by Dept. of. Biotechnology, NIT Warangal, January 2016.
- 17. FDP on "Statistics with R", organized by E& ICT academy, Dept. of. CSE, NIT Warangal, December 2016.
- Hands-on Workshop on "Development of Signaling Pathway Networks" held at Rajiv Gandhi Centre for Biotechnology, Thiruvananthapuram, and October 2015.
- 3rd IIT- Madras Tokyo Tech Joint Symposium on "Algorithms and Applications of Bioinformatics", at IIT Madras, November, 2015.
- 20. National workshop on "Research Trends in Animal Biotechnology", organized by Dept. of Biotechnology at NIT Warangal, 2015.
- 21. DBT, Govt. of India Sponsored National Short Term Training course on "Animal Cell Culture & Molecular Diagnostic Techniques" at Kakatiya University, 18th august - 1st September 2014.
- National workshop on "Eco-friendly structural innovations for Sustainable development" organized by NIT Warangal, under TEQIP-II, July 2014.
- National workshop on "Bioinformatics and its Applications", organized by Dept. of Biotechnology at NIT Warangal, April 2014.
- 24. National workshop on "Research Methodology and Scholarly Writing Skills", organized by NIT Warangal, January 2014.
- 25. National workshop on "Environmental Biotechnology & Sustainability" organized by Dept. of Biotechnology, NIT Warangal, October 2013.
- 26. QIP (Quality Improvement Programme) short term course on "Advances in Drug Discovery" July, 2010 at IIT Guwahati.

Details of Journal Publications/ Conferences (National and International)

## **International Conference:**

- 1. Paper presented in "International conference on Modern advancements in diagnosis and treatment of clinical cancer" sree sastha institute of Technology, Chennai, May 2022
- Participated in International conference "Microbiofiestia" organized by VIT, vellore, November 30, 2021
- Co-chaired a session on Biosensors, Bioelectronics & Nanobiotechnology and organized a workshop
  in "International Conference on Biotechnology and Interdisciplinary Technologies" (iCBIT 21), CBIT in
  association with FABA Academy, CBIT, Hyderabad
- 4. Sumithra. B, Asim Bikas Das. (ICSCC 2015) Transcriptional Regulation and Protein-Protein Interaction Networks of Human Oncogenic Splicing Factor Sam68, "6th International Conference on Stem Cell and Cancer: Proliferation, Differentiation and Apoptosis" Pune. (Best poster award).
- Sumithra. B, Asim Bikas Das. Oncogenic Sam68 links Signaling Pathways and Alternative Splicing, "9th Indo Global Summit on Cancer Therapy", 2015 Hyderabad.
- 6. Participated in "7th IEEE International Conference on Technology for Education (T4E)" organized by NIT Warangal during 10-12th December 2015

## National /International Journal:

- B. Sumithra, Urmila Saxena, Asim Bikas Das (2016) Alternative splicing within the Wnt signaling pathway: role in cancer. Cellular Oncology: 39:1-13.
- 2. B. Sumithra, Urmila Saxena, Asim Bikas Das (2019) A comprehensive study on genome-wide coexpression network of KHDRBS1/Sam68 reveals its cancer and patient-specific association. Scientific Reports: 9, 11083.
- B. Sumithra, V.S.P.K. Sankara Aditya Jayanthi, Hari Chandana Manne, Rashmika Gunda, Urmila Saxena\*, Asim Bikas Das\* (2020) Antibody based biosensor to detect oncogenic splicing factor Sam68 for the diagnosis of lung cancer. Biotechnology Letters 2020, 42, 2501 -2509