

Other Relevant Information

Professional Affiliations and Memberships (04)

- **Fellow of Telangana Academy of Science, (TAS)** Since 2017
- Member of American Association for Advancement of Science (AAAS) since 2000.
- Member of American Chemical Society (ACS) since 2001.
- Member of the Korean Chemical Society since 2005.

Industrial Association:

1. **Chief Scientific Advisor**, Chitolytic, Inc., Toronto, Ontario, Canada.
2. **Advisor and Mentor (R &D), μ PADs Division**, a bulk paper-based device manufacturing Unit, **Pragati Offset Pvt. Ltd.**, Vijayawada, India.
3. **Advisor (Technical)** with **μ Fluidic Paper Medical Devices Pvt. Ltd.**, Kamineni life Science Building, Maulali, Hyderabad, 2017-2019.
4. **Mentor/Advisor (R&D), FastSense Diagnostics Pvt. Ltd.**, NCL Innovation Park, Dr. Homi Bhabha Road, Pune, since 2017.
5. **Advisor and Mentor (R &D)**, PAHL NanoBioTherapeutics Pvt. Ltd.,
6. **Advisor, Axio Biosolutions**, Bangalore, India since inception
7. **Advisor and Mentor** to 'Project 1006', Nirma Labs, Nirma University, India (2006-2008)
8. **Consultant, Appin Nanotechnology**, India, 2005-2006.

Expert Committee Member

- **External Subject Expert** for evaluation of the JRF to SRF evaluation, LVPEI, Hyderabad, India, 2021
- **Expert Member** of SRISTI-GYTI Awards Selection Committee 2019-20.
- **External Subject Expert** for evaluation of the performance of Students and for conversion from JRF to SRF in IIT, Hyderabad, July 2019
- **External Subject Expert** for evaluation of the performance of Students in IIT, Hyderabad, 2018
- **Expert**, CRTDH proposal evolution in the Affordable Health Care Sector 2018, Department of Scientific and Industrial Research, Ministry of Science and Technology, Govt. of India, New Delhi India.
- **Member of Management Committee** for DSIR-CCMB-Common Research and Technology Development Hub on affordable diagnostics, CCMB-Annexe-II, Uppal Road, Uppal.
- **External Expert** for the qualifying examination of doctoral Student/s of Amrita Vishwa Vidyapeetham.
- **Member of Doctoral Research Committee** of SRM University and VIT, University
- **Regular reviewer** of journals like Analytica-Chemica-Acta, Analytical Chemistry, Analyst, Lab-Chip, Talanta, Microfluidic Nanofluidic, Micro & Nano letter.
- **Ph.D. Thesis examiner** for IIT, Hyderabad (2021, 2020), CSIR-NIIST (2019), CSIR-NCL, Pune (2018), IIT, Mumbai (2018), Pune University, Pune (2015), SRM University, Chennai (2016) and Thiruvalluvar University, Tamil Nadu (2012);

Chief Guest and Conference Chair

- **Chief Guest**, Inter-School School Science fest - Little Einstein, Pallavi Model School, Boduppal, Hyderabad, Nov 21, 2020.
- Inaugurated the National Seminar on "Advancements in Biomaterials and Nanotechnology in Healthcare – Current Scenario and Future Perspective", **as Chief Guest**, organized by Department of Biomedical Engineering, KarpagaVinayaga College of Engineering & Technology, Padalam, TN, Indian 9th & 10th January 2019.
- **Session Chair**, Theranostics at the Third International Conference on Nanotechnology for Biological and Biomedical Applications (Nano-Bio-Med 2015), Dec. 1-4, 2015, VMCC, IIT-Bombay, Mumbai, India.
- **Chair Accommodation Committee**, 14th FAOBMB and 84th Annual Meeting of SBC, Current Excitement in Biochemistry and Molecular Biology for Agriculture and Medicine, 24-30 November 2015, Hyderabad.

Jury and Judge

- Judge for poster presentation lab-on-a-Chip and Microfluidic Conference, Organized by SelectBio India, 12th-13th of September 2019, India.
- Judge, Literary festival 2019, Global India International School, Uppal, Hyderabad, 08th to 10th of August 2019.

- Judge for poster evolution for subject area Quantum Biology in 10th edition of OSMECON 2019, A pioneering Pathways for Medical Research, organized by Osmania Medical College, Hyderabad 08th to 10th of August 2019.
- Judge, National Children Science Congress of Central Schools, Kendriya Vidhyalaya -2, Uppal, Hyderabad, 2015
- Judge, Science fair at Delhi Public School, Nacharam, Hyderabad, 2015.

Contribution to indigenous technology / component / product / device/engineering systems design & development

- Developed affordable paper-based surface-enhanced Raman scattering (SERS) substrate with sensitivity as low as picomolar. (Patent filed in India and PCT, discussion with BWTech, the USA in progress for commercialization).
- Developed a simple affordable paper-based microfluidic device for total lipid profiling; a discussion with a Canadian company underway for commercialization.
- Developed a paper-based microfluidic kit for early detection of pregnancy in cattle. The devices under laboratory trials before this technology can be transferred to Industry. This technology is assumed to have an immense socio-economical impact on dairy farmers.
- Established facilities for fabricating paper microfluidic devices with a simple XY-plotter.
- Created a new hydrophobic ink to fabricated paper devices required for the paper microfluidic devices.
- Modified embedded template method to fabricated channels with different configurations.
- Developed a novel, non-conventional method of fabrication of microfluidic device using foil assisted replica molding (FARM)

Subjects Taught at UG Level

Bio-analytical Techniques, Biosensor, Microarray and Biochip Technology, Thermodynamics of Bioprocess, and Engineering Chemistry to B. Tech. (Biotech.) Students

Subjects Taught at PG Level

Analytical Chemistry and Pharmacology to PG classes.

Short term courses/workshops/seminars etc. organized

1. **Coordinated a visit of 40 M.Sc. (Microbiology) Students** from St.Pious X Degree &PG College and explained about Nanotechnology, Microfluidics and its application in Life Science, CSIR-CCMB, Annexe-II, Hyderabad, 8th of April 2019.
2. **Conducted a workshop** on “**non-conventional way of fabricating biopolymer and paper microfluidic devices**” in the **Nano-Technology workshop** Sponsor by Indian Council Medical Research and organized by Department of Molecular Medicine & Biotechnology, Sanjay Gandhi Postgraduate Institute of Medical Sciences (SGPGIMS), 26th -27th of June 2018, Lucknow.
3. **Co-ordinate, Co-Organized, Conducted 2 weeks** “**Training course on Nanomaterials and Applications in Biology**” under the **Skill Development Programme**, of CSIR-CCMB, 19th of February to 3rd of March 2018, CCMB-Annexe-II, Medical Biotechnology Complex, Uppal Road, Uppal, Hyderabad.
4. **Chair of Accommodation Committee**, 14th FAOBMB and 84th Annual Meeting of SBC, Current Excitement in Biochemistry and Molecular Biology for Agriculture and Medicine, 24-30 November 2015, Hyderabad.
5. **Participating Scientist** in Young Scientist Programme of CCMB for school kids, since 2013.
6. **Designed and conducted experiments** on microfluidic, paper microfluidics and nanoparticle generation for participants from different schools under Young Scientist Programme of CCMB for school kids, in 2013, 2014 and 2015.
7. **Annual Winter School for Undergraduate student at AIBN**, June 2009, Australian Institute of Bioengineering and Nanotechnology, University of Queensland. Planned and demonstrated the fabrication of micro and nanofluidic channels in a cleanroom atmosphere.
8. **3rd International Symposium and Short course on Separation Sciences**, 23-26 November 1998, Bhopal, India.
9. **1st International Seminar and Short course on High-Performance Liquid Chromatography and Capillary Electrophoresis**, 19-21 November 1996, Bhopal, India.