

ANUMEHA VATS

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OBJECTIVE

To gain research experience in a professionally managed and dynamic organization and provide the best of my skills and productivity, rendering a competitive environment and challenging tasks.

AREA OF EXPERTISE

- ↓ Enzymology
- ↓ Resource Recovery
- ↓ Down-Stream Processing
- ↓ Process Development/Optimization
- ↓ Waste Management – Reduce, Reuse & Recycle

SKILLS

- ☞ UV/Vis Spectrophotometer
- ☞ Tangential Flow Filtration Unit
- ☞ Kjeldahl Digestion Distillation Unit
- ☞ Microbial & Molecular Techniques
- ☞ Analytical Techniques - Gas Chromatography, LCMS (sample preparations)
- ☞ Microplate Reader

PROFESSIONAL EXPERIENCE

- **Ph.D. Scholar at BITS-Pilani, K K Birla Goa Campus (Aug 2015 – Dec 2021)**
Thesis Titled: Vitamin D₂ enrichment in mushroom (*Agaricus bisporus*) and Valorization of Spent Mushroom Compost
- **DBT JRF at BITS-Pilani, K K Birla Goa Campus (Mar 2017 – Mar 2020)**
Project Titled: Developing Bioactive Compound-Enriched Functional Food Ingredients from *Dillenia Indica* and Valorization of its Pomace
- **Project Assistant at BITS-Pilani, K K Birla Goa Campus (Sept 2014 – Feb 2016)**
Project Titled: To establish COD (Cr) quality testing method for seawater
- **BCIL trainee at Navya Biological Pvt. Ltd. Hubli (Nov 2012 – June 2013)**
Project Titled: Optimization of recombinant protein expression in *Pichia pastoris*

PUBLICATIONS

- ✍ **Manuscript Title: Recovery of Lignocellulolytic Enzymes and Valorization of Spent Mushroom Substrate**
Manuscript DOI: [10.32526/enrj/20/202100099](https://doi.org/10.32526/enrj/20/202100099)
Journal: [The Environment and Natural Resources Journal](#)
- ✍ **Manuscript Title: Development of Sensitive and Selective UPLC-MS/MS Method for the Quantification of Vitamin D₂ (Ergocalciferol) and its Demonstration in *Agaricus bisporus***
Manuscript DOI: [10.1080/10826076.2021.1995743](https://doi.org/10.1080/10826076.2021.1995743)
Journal: [Journal of Liquid Chromatography & Related Technologies](#)

PROJECT/RESEARCH ONGOING / UNDERTAKEN

- ✓ Lignocellulolytic Enzyme recovery from spent mushroom compost
- ✓ Vitamin D enhancement in Mushrooms
- ✓ Utilization of Palm oil effluent and solid sludge for protein production so as to use it as feed additive for animals
- ✓ Enzyme Production from *Dillenia indica* pomace & its utilization for biogas generation from agricultural waste
- ✓ Method optimization of COD method (Chemical Oxygen Demand) for seawater; salinity ranging 0.2% - 4.0%
- ✓ Development of process for the production of recombinant Human Serum Albumin and other enzymes derived from *Pichia pastoris*
- ✓ Biodegradation of Oil by microorganism and their identification
- ✓ *Moringa oleifera*: A water purifier and an antifungal agent

TRAINING & RESEARCH EXPOSURE

- ☞ Conference on Urban Rural Nutrient and Carbon Cycle – Towards Soil Protection and Rehabilitation by GIZ at BITS - Pilani K K Birla Goa Campus, Goa, India (26 November 2018)
- ☞ 4th Asia Pacific – International Society of Microbial Electrochemistry and Technology (AP-ISMET) Meeting on “Bioelectrochemical and Electrochemical Approaches for Decentralized Sanitation” at BITS - Pilani K K Birla Goa Campus, Goa, India (13 – 16 November 2018)
- ☞ Developing businesses in Resource Recovery and Reuse (RRR) at International Water Management Institute (IWMI), Battaramulla, Colombo, Sri Lanka (23-27 July 2018)
- ☞ Novel Sanitation Approaches and Emerging Trends in Wastewater Treatment System (NSA 2017) at BITS - Pilani K K Birla Goa Campus, Goa, India (19-21 December 2017)
- ☞ DBT BIRAC Workshop on Bio-Entrepreneurship, Grant-Writing & Intellectual Property Management at BITS - Pilani K K Birla Goa Campus, Goa, India (18 - 19 February 2016)
- ☞ 2nd International Conference Terra Preta Sanitation & Decentralized Wastewater System (TPS-2015) at BITS - Pilani K K Birla Goa Campus, Goa, India (19-21 November 2015)
- ☞ Conference on Decentralized Biogas Digesters and their Slurry Management at BITS - Pilani K K Birla Goa Campus, Goa, India (November 20-21, 2014)

EDUCATIONAL QUALIFICATION

- Master of Science in Biotechnology (2009 – 2011)
University of Kota, Rajasthan
- Bachelors of Science in Applied Biotechnology (2005 – 2008)
Sikkim Manipal University, Manipal

ACADEMIC ACHIEVEMENTS:

- Qualified BITP 2012-13 conducted by Government of India, selected as BCIL Trainee
- Best Student in Academics (College Topper) in B.Sc. Biotechnology 2008-2009

EXTRA-CURRICULAR ACTIVITIES:

- ❖ Junior Diploma holder in Kathak (Classical dance)
- ❖ Hobbies: Travelling, Dancing, Cooking

PROFESSIONAL REFERENCE

- Dr. M. Srikanth : Professor
Head, Dept. Of Biological Sciences
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DECLARATION

The information furnished above is true to the best of my knowledge and belief.

Anumeha Vats