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## Dr. D. Y. Patil Vidyapeeth, Pune

(DEEMED TO BE UNIVERSITY)

## Dr. D. Y. Patil Biotechnology & Bioinformatics Institute

Tathawade, Pune 411033.

DST-FIST (Level-1)

Approved by All India Council for Technical Education (AICTE), GOVT OF INDIA Website: biotech.dpu.edu.in Email: info.biotech@dpu.edu.in phone: +91 20 67919444 /67919400

Name : Dr. Viniti Vaidya

**Designation** : Assistant Professor

Dr. D.Y. Patil Biotechnology & Bioinformatics Institute,

Dr. D.Y. Patil Vidyapeeth, Pune

**Email ID** : <u>viniti.vaidya@dpu.edu.in</u>

**Contact Number** : +912067919444

**Research Interest**: Microbiology and Environmental Biotechnology



## **Academic Qualifications**

**Ph.D. in Biotechnology** (2008-2016) Shivaji University, Kolhapur, India

Thesis Title: Cloning and characterization of fructosyltransferases (FTFs) and their transgenic expression

Master of Science in Microbiology (2007) Goa University, Goa Grade A, First Class

**Bachelor of Science in Microbiology** (2005) Applied subject: **Biotechnology** 

University of Mumbai, Mumbai

70.88%, First Class

### **On-going Research Projects**

Segregation and management of laboratory wastes for resource recovery and value addition

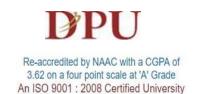
Funding agency: Department of Science and Technology, (DST), Technology Development and Transfer

(TDT) Division Duration: 3 years

• Characterization and cost-effective production of fructans: prebiotic health-improving compounds

Funding agency: Dr. D.Y. Patil Biotechnology & Bioinformatics Institute, Dr. D.Y. Patil Vidyapeeth, Pune

Duration: 2 years



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### **Professional Experience**

#### • Assistant Professor

October 2016–present Department of Biotechnology, Dr. D. Y. Patil Biotechnology and Bioinformatics Institute, Dr. D. Y. Patil Vidyapeeth, Pune 411033.

### • Academic Research Editor (Biosciences)

January 2015–May 2016 Crimson Interactive Pvt. Ltd. Veer Savarkar Marg, Goregoan, Mumbai, India.

#### • Research Scholar

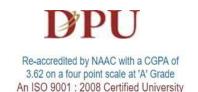
October 2013–November 2014 Dept. of Innovation in Biological and AgroForesty systems (DIBAF) University of Tuscia, 01100 Viterbo-Rome, Italy

### **Scholarships and Awards**

- Italian Government Scholarship Award in Biotechnology, Ministry of Human Resources—Italian Ministry of Foreign Affairs, Italy (2013).
- **Senior Research Fellowship** (Life Science Research Broad, DRDO Project), University of Agricultural Sciences, Bangalore, (2012).
- Senior Research Fellowship (ICAR-based), Vasantdada Sugar Institute, Pune, India. (2009-2007).
- Masters in Science (Microbiology): 3<sup>rd</sup> Rank in Goa University.
- Bachelor in Science (Microbiology, Applied Biotechnology): 2<sup>nd</sup> Rank in Wilson College, University of Mumbai.

### **Research Projects**

- Principle Investigator for project funded by Department of Science and Technology, (DST), Technology Development and Transfer (TDT) Division. Research grant Rs. 50,18,800 L, Duration 2020-2023
   Project Title: Segregation and management of laboratory wastes for resource recovery and value addition
- Principle Investigator for project funded by Dr. D.Y. Patil Biotechnology & Bioinformatics Institute, Dr. D.Y. Patil Vidyapeeth, Pune. Research grant Rs. 2,00,000 L, Duration 2018-2020
   Project Title: Characterization and cost-effective production of fructans: prebiotic health-improving compounds
- Project on optimization of extracellular laccase and manganese peroxidase production from *Trametes* sp. in fermentation on olive mill waste water based media at Dept. of Innovation in Biological and AgroForesty systems (DIBAF), University of Tuscia, 01100 Viterbo-Rome, Italy under Italian Govt. Scholarships.
- Project on Antibacterial and antioxidant activity of green synthesized silver nanoparticles using plant extracts: *Cicer arietinum* pods, *Acacia Catechu* at Department of Biotechnology, Dr. D. Y. Patil Biotechnology and Bioinformatics Institute, Dr. D. Y. Patil Vidyapeeth, Pune 411033.



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- Senior Research Fellow on a DRDO-funded project on Cloning and Functional Analysis of Fructosyltransferases (FTFs) for the Production of Fructans: Prebiotic Health-Improving Compounds by at Department of Biotechnology, University of Agricultural Sciences, GKVK, Bangalore 560065, Karnataka, India.
- Worked on Immobilization and characterization of thermostable levansucrase using polyacrylamide gel at Department of Biotechnology, University of Agricultural Sciences, GKVK, Bangalore 560065, Karnataka, India.
- Worked on Identification of YNK interacting proteins under oxidative stress using Saccharomyces cerevisiae as model system at Department of Biotechnology, University of Agricultural Sciences, GKVK, Bangalore 560065, Karnataka, India.
- Worked on Incidence of *Listeria monocytogenes* in fresh and processed meat samples in Goa and detection of virulence associated genes by PCR at Dept. of Public Veterinary Health, Indian Council of Agricultural Research (ICAR), Goa, India
- Worked on Multi drug resistant bacteria from urinary tract infection (UTI) positive patients in Goa at Dept. of Microbiology, Goa University, India

### **Publications**

- Vaidya V, Carota E, Calonzi D, Petruccioli M, D'Annibale A (2019) Production of lignin-modifying enzymes by Trametes ochracea on high-molecular weight fraction of olive mill wastewater, a byproduct of olive oil biorefinery. New biotechnology. 25 (50) 44-51.
- Shah S, Gaikwad S, Nagar S, Kulshrestha S, **Vaidya V**, Neelu Nawani and Sarika Pawar (2019) Biofilm inhibition and anti-quorum sensing activity of phytosynthesized silver nanoparticles against nosocomial pathogen *Pseudomonas aeruginosa*. **Biofouling**. 35(1) 34-49.
- Vaidya, V., and Prasad, D. T. (2020) Enhanced levan production by a thermostable levansucrase from *Bacillus subtilis* BB03, *Curr Microbiology* (in preparation).
- Vaidya, V., Prabhu, G. and Prasad, D.T. (2014) Heterologus expression and characterization of thermostable levansucrase (BsSacB) from *Bacillus subtilis* BB03, *Online J Bio Sci*, **15** (1) 10–22.
- Vaidya, V. and Prasad, D. T. (2012) Thermostable levansucrase from *Bacillus subtilis* BB04, an isolate of banana peel, *J Biochem Tech*, **3** (4) 322–327.
- Doijad, S., **Vaidya**, **V.**, Garg, S., Sapte, S. and Barbuddhe, S. (2010) Isolation and characterization of *Listeria* species from raw and processed meats, *J Vet Public Health*, **8** (2) 83–88.



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### Gene sequence submissions at NCBI, USA

- Vaidya, V., Yadav, A. and Prasad, D. T. (2011) *Bacillus subtilis* partial 16S rRNA gene, strain BB03 (Accession No. **HE605036**).
- Vaidya, V., Yadav, A. and Prasad, D.T. (2011) *Bacillus subtilis* partial 16S rRNA gene, strain BB03 (Accession No. **HE605037**).
- Vaidya, V., Kawar, P. and Prasad, D.T. (2009) *Bacillus subtilus* levansucrase gene complete cds (Accession No. FN599519).
- Yadav, A., Vaidya, V. and Prasad, D.T. (2008) *Cladosporium* sp. SPRY16 partial 18S rRNA gene (Accession No. FM179794).

### **Conference Publications**

T Chauhan, R Khartode, J K Pal, N N Nawani, V Vaidya\*. (2019) Production and functional assessment of biochar using laboratory-media waste. International conference on New Horizons in Biotechnology, Trivandrum, Kerala, India.

S Pandey, P Singhania, D Rathod, T Chauhan, S Pawar, **V Vaidya**, J.K. Pal, N N Nawani. (2019) Utilization of laboratory biowaste for commercially viable products. International conference on New Horizons in Biotechnology, Trivandrum, Kerala, India.

Sadaf Khan, Simran Singh, Neelu Nawani, Swapnil Gaikwad, **Viniti Vaidya** and Sarika Pawar (2018) Optimization, characterization and antifungal activity of biologically synthesized silver nanoparticles. International conference on Biotechnological Innovation for Sustainable Development (BioSD) 22-25 November 2018, IICT, Hyderabad.

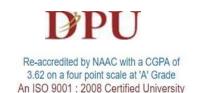
**Vaidya, V.**, Prabhu, G. and Prasad D.T. (2012) Characterization of immobilized thermostable levansucrase from *Bacillus subtilis* BB04, International Symposium on Proteomics beyond IDs and 4<sup>th</sup> Annual meeting of Proteomics society, National chemical laboratory, Pune, India.

Shah, N., **Vaidya, V**. and Prasad D.T. (2012) Identification of YNK interacting proteins under oxidative stress using *Saccharomyces cerevisiae* as model system, International Symposium on Proteomics beyond IDs and 4<sup>th</sup> Annual meeting of Proteomics society, National chemical laboratory, Pune, India.

**Vaidya, V.** and Prasad, D. T. (2010) Molecular evaluation of bacterial fructosyltransferase for production of fructan: a low calorie sweetener, Functional foods for chronic diseases: Diabetes and Related Diseases. 6<sup>th</sup> International conference proceedings, USA, 33: 118-120.

**Vaidya, V.** and Prasad, D.T (2008) Cloning of bacterial fructosyltransferase and cluster analysis of enzyme from various organisms, National conference on Genomics, proteiomics and systems biology, IISc Campus, Bangalore.

**Vaidya, V.,** Barbuddhe, S. B., Bhosle, S. N. and Garg, S. (2007) Prevalence of *Listeria monocytogenes* in beef, pork and non-boiled sausages in Western Coast of India, 16<sup>th</sup> International Symposium on Problems of *Listeria*, Savannah, GA, USA.



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Desai, V., Vaidya, V., Prabhu N., Santimano, M. C., Chari, L. J., Krishnamurthy, N. and Garg, S. (2006) Multi drug resistant bacteria from UTI positive patients in Goa, 47<sup>th</sup> Annual Conference of Association of Microbiologists of India (AMI), Bhopal.

**Vaidya, V.,** Barbuddhe, S. B., Bhosle, S. N. and Garg, S. (2006) Incidence of *Listeria monocytogenes* in fresh and processed meats in Goa, 47<sup>th</sup> Annual Conference of Association of Microbiologists of India (AMI), Bhopal.

### **Industrial Trainings/Workshops/Seminars**

- Workshop on Student-Centric Teaching-Learning Methods (March 2020) by Dr. D. Y. Patil College of Physiotherapy, Pimpri.
- Workshop on SmartBoard-enabled Teaching (January 2019) conducted by University Center for Professional Education & Faculty Development (UCPEFD) and Software Development Cell. Dr. D. Y. Patil Vidyapeeth, Pune.
- Workshop on Introduction to Swayam, Moocs & Moodle (January 2018) conducted by University Center for Professional Education & Faculty Development (UCPEFD) and Software Development Cell. Dr. D. Y. Patil Vidyapeeth, Pune.
- STEM Teach Training Workshop on Research-based Pedagogical Tools-Level 1 (March 2017) at Indian Institute of Science Education and Research (IISER) Pune.
- Isotope Ratio Mass Spectrometry Workshop (October 2005) at National Institute of Oceanography, Goa
- Practical Industrial Training in various production departments including Bacterial Vaccine Department (May 2004) Haffkine Bio-Pharmaceutical Corporation Ltd., Mumbai.

### **Events organized/coordinated**

- **Co-ordinator,** Webinar on "Guidelines for Competitive Exams" on 29 May 2020 organized via zoom by Dr. D. Y. Patil Biotechnology and Bioinformatics Institute, Pune.
- Member of Organizing committee, National Symposium on "Recent Advances in Modern Biology and Biotechnology" during 14-16 March 2019 organized by Dr. D. Y. Patil Biotechnology and Bioinformatics Institute.
- **Member of Organizing committee**, "Industry-Academia Conclave" during 23-24 Feb 2018 organized by Dr. D. Y. Patil Biotechnology and Bioinformatics Institute.
- Member of Organizing committee, National Symposium on "Recent Advances in Modern Biology and Biotechnology" during 16-17 March 2017 organized by Dr. D. Y. Patil Biotechnology and Bioinformatics Institute.