

Curriculum Vitae

Dr. SHIPRA DEEP

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Personal Information:

Date of Birth: February 25, 1986

Gender: Female

Nationality: Indian

Marital Status: Single

Languages: English, Hindi

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Objective

To implement my knowledge and different innovative teaching practices for the betterment of future generations with great enthusiasm in an organization that demands daily challenging roles and having motivational environment.

Research Interests

- Biochemical Engineering
- Industrial Biotechnology
- Fermentation Technology
- Microbiology

Present Status

Working as an Assistant Professor in Dr. D Y. Patil Biotechnology and Bioinformatics Institute (D. Y. Patil Vidyapeeth), Pune since 01 august 2017.

Academic Profile

- ❖ **Ph. D awarded** in thesis entitled “*Studies on Folic acid production by different microorganisms and its fortification in food products*” (2010-2016) from **Indian Institute of Technology (BHU)**, Varanasi, U.P., India under the guidance of **Professor Subir Kundu** (8.38/10 CGPA in Ph. D).
- ❖ **M. Tech in Biochemical Engineering** (2008-2010) with first division (8.45/10 CGPA) from School of Biochemical engineering, **Indian Institute of Technology (BHU)**, Varanasi, U.P., India.
- ❖ **M. Sc. in Biotechnology** (2006-2008) with first division (76.55%) from **University of Allahabad**, Allahabad.
- ❖ **B. Sc. (Chemistry, Zoology & Botany)** (2003-2006) with first division (66.29%) from **A.N.D.N.N.M. Mahavidyalaya, C.S.J.M. University, Kanpur**.

- ❖ **Intermediate** from G.G.I.C., Etawah, U. P. Board (2001-2002) with first division (66.20%).
- ❖ **Highschool** from G.G.I.C., Etawah, U. P. Board (1999-2000) with first division (54.33 %).

Academic Honors

- ❖ Qualified **GATE** (Life Sciences) in 2008 with GATE Score 473, A.I.R. 246 & Percentile 98.16.
- ❖ Qualified **All India M.Sc. Biotechnology Entrance Exam** in 2006 conducted by JNU and DBT, New Delhi.
- ❖ Recipient of **DBT scholarship** for two years (2006-2008) during M.Sc. Biotechnology awarded by Department of Biotechnology, Govt. of India, New Delhi.
- ❖ Recipient of **Junior Research Fellowship** in Ph. D funded by **University Grant Commission** at IIT (BHU) (August 2010-June 2012).
- ❖ Recipient of **Senior Research Fellowship** in Ph. D funded by **MHRD** at IIT (BHU) (July 2012-August 2015).

Publications

- ❖ **Shipra Deep**, Sourish Karmakar, Rashmi Sahay Khare, Sumedha Ojha, Kanika Kundu & Subir Kundu (2012) Development of Probiotic Candidate in Combination with Essential Oils from Medicinal Plant and Their Effect on Enteric Pathogens: A Review. *Gastroenterology Research and Practice (Hindawi)* doi:10.1155/2012/457150 vol 2012:1-6.
- ❖ **Shipra Deep**, Sumedha Ojha & Subir Kundu (2017) “Efficacy and Stability studies of microbial folate fortified fruit juices prepared using probiotic microorganism”. *Cellular and Molecular Biology Journal* 63 (6): 44-48.
- ❖ Sumedha Ojha, **Shipra Deep** & Subir Kundu (2017) “Plant derived antimicrobial peptide Ib-AMP1 as a potential alternative drug candidate for *Staphylococcus aureus* toxins”. *Cellular and molecular biology* 63 (6): 56-59.
- ❖ **Shipra Deep** & Subir Kundu (2015) Assessment of Preliminary *in Vitro* Probiotic Characteristics of the Folate Producing Yogurt Starter Culture *Streptococcus* and *Lactobacillus* Species. *IOSR Journal of Pharmacy and Biological Sciences* 10 (3):26-31.
- ❖ **Shipra Deep** & Subir Kundu (2014) Comparative studies on folate production and parameter optimization in fermented milk from Yoghurt starter culture. *International Journal of Engineering Sciences & Research Technology* 5(12):653-660.
- ❖ Shivam Singh, **Shipra Deep** & S.M. Ali Jawaid (2014) Heavy metal removal from contaminated soil by soil washing - A Review. *Global Journal of Engineering Science and Researches* 1(8):11-15.
- ❖ Shivam Singh, **Shipra Deep** & S.M. Ali Jawaid (2014) Removal of the Cr from the contaminated soil by the soil washing technique using a modified Bench Scale Model. *Global Journal of Engineering Science and Researches* 1 (9):16-21.

Book Chapter

- ❖ Sumedha Ojha, Kanika Kundu, **Shipra Deep**, Gaurav Saraf & Subir Kundu (2013) Design and development of Conventional and Non-Conventional Antibiotics and their comparative analysis. Microbial pathogens and strategies for combating them: science, technology and education in Formatex Microbiology Book Series 4 - Volume 1, A. Méndez-Vilas Edition (ISBN-13 Vol. 1: 978-84-939843-9-7).

Conferences (Poster Presentation)

- ❖ **Shipra Deep**, Sumedha Ojha and Subir Kundu (2016) “Efficacy and Stability studies of microbial folate fortified fruit juices prepared using probiotic microorganism” International Conference on Translational

Biotechnology-Biosangam 2016, February 04-06, Department of Biotechnology, Motilal Nehru National Institute of Technology (MNNIT) Allahabad.

- ❖ **Sumedha Ojha, Shipra Deep** and Subir Kundu (2016) “Plant derived antimicrobial peptide Ib-AMP1 as a potential alternative drug candidate for *Staphylococcus aureus* toxins” International Conference on Translational Biotechnology-Biosangam 2016, February 04-06, Department of Biotechnology, Motilal Nehru National Institute of Technology (MNNIT) Allahabad.
- ❖ **Shipra Deep** and Subir Kundu (2015) “Significance and Necessity of Microbial Food Folate Fortification using Probiotics” 5th Annual International Conference - BIOTECH 2015 Advances in Biotechnology, March 13-15, IIT-KANPUR in association with Global Science & technology forum (GSTF).
- ❖ **Shipra Deep** and Subir Kundu (2014) “Microbial enrichment of food folate and its quantification using microbiological assay” “2nd PAi Conference along with An International Symposium on "Probiotics and Microbiome - Gut & Beyond", November 03-04, NDRI, Karnal with the association of Probiotics association of India at India Habitat Centre, New Delhi.
- ❖ **Shipra Deep** and Subir Kundu (2014) “Studies on enrichment of folate by Yoghurt Bacteria *Streptococcus thermophilus* and *Lactobacillus helveticus*” National Conference on Bioengineering and Biotechnology: An Industrial Perspective, October 16 – 17, Amity University, Lucknow.
- ❖ **Shipra Deep**, Pushpita Das and Subir Kundu (2013) “Studies on enhanced production of Natural Folate using Lactic acid bacteria and their Mixed Culture” Asian Congress on Biotechnology 2013- Bioprocessing for sustainable development, December 15-19, IIT-DELHI under the aegis of Asian Federation of Biotechnology at India Habitat Centre, New Delhi.
- ❖ **Shipra Deep** and Subir Kundu (2013) “Microbial Fortification of Folate in Food item and its assessment through the Microbiological Assay” Biosangam 2013- International Conference on Health, Environment and Industrial Biotechnology, November 21-23, Department of Biotechnology, Motilal Nehru National Institute of Technology (MNNIT) Allahabad.
- ❖ **Shipra Deep** and Subir Kundu (2011) “Comparative studies of Folic acid production from *Streptococcus thermophilus* and *Lactobacillus helveticus*” National seminar on “Recent advances in the development of fermented foods” April 08-09, Centre of Food Science and Technology, Institute of Agricultural Sciences, BHU, Varanasi.

Conferences/Workshop/Seminars Attended

- ❖ Attended National workshop on “Mathematical Modeling and Computer Simulation” organized by Teaching and learning cell, IIT (BHU) held on March 20-21, 2015.
- ❖ Participated in seven days workshop on “Applied Statistical methods for Biological Sciences” organized by DST-Centre for Interdisciplinary Mathematical Sciences (CIMS), BHU at Varanasi held on April 4-10, 2014.
- ❖ Attended the “Author Workshop” jointly organized by Springer and IIT-BHU held on 10th February 2014.
- ❖ Participated in four days workshop on “Molecular Docking and Simulation for Identification of Novel Molecules for Agricultural and Veterinary Applications” organized by Bioinformatics Sub DIC, Pantnagar and sponsored by DBT, Government of India, New Delhi at G.B. Pant University of Agriculture & Technology, Pantnagar held on September 14-17, 2013.
- ❖ Participated in workshop on “Advances in Energy Engineering & Technology” organized by Department of Mechanical Engineering, IIT (BHU), Varanasi held on June 28-30, 2013.
- ❖ Participated in workshop “Garuda Boot Camp on National Computational Grid”, organized by IIT (BHU) and Centre for Development of Advanced Computing (C-DAC), held during March 06-07, 2013.

- ❖ Attended the Author Workshop entitled “How to Write for and Get Published In Scientific Journals and Publish Manuscripts ”conducted by Springer and Edanz along with Central Library, Banaras Hindu University, held on 24th January 2013.
- ❖ Attended six weeks workshop on “Entrepreneurship development/skill development program on Biotechnology” organized by Ministry of Micro, Small & Medium Enterprises, Government of India at Technology Business Incubator, BHU held during 2nd September to 13th October 2011.
- ❖ Attended International Workshop on “Frontier in NanoBiotechnology” at Centre of Biotechnology, University of Allahabad, Allahabad held on 1st December 2006.
- ❖ Attended International Conference on “Engineering Trends in Biotechnology” and “6th Annual Convention of the Biotech Research Society of India” held on during 4-6 December 2009, organized by School of Biotechnology, BHU.
- ❖ Attended National Conference on “Emerging Paradigms in Biochemical Engineering” held on during 9-10th October 2009, organized by School of Biochemical Engineering, IIT (BHU), Varanasi.

Teaching Experience

During Ph.D (Teaching Assistantship) - For teaching assistantship, I had to involve in the teaching related activities for minimum 8 hours per week except the Ph.D research work.

- ❖ Assistance in M.Tech 2nd semester Seminar classes (January 2012-June 2012).
- ❖ Tutorial classes of IDD 3rd semester Introduction to modern biology (July 2013-December 2013).
- ❖ Assistance in IDD 5th semester microbiological engineering classes (July 2014-December 2014).
- ❖ Assistance in IDD 1st semester Introduction to Biochemical Engineering laboratory classes (July 2014-December 2014).
- ❖ Assistance in other academic activities like assignments, seminars, records of attendance, preparations of question papers, examination invigilation duties and semester examination evaluation etc.
- ❖ Administrative experience as assistance in Ph.D selection procedures in our department for consecutively 4 years.
- ❖ Assistance in the Institute day celebration preparations.

Research Experience

- ❖ BSBE Summer School-2007 (June 10th-24th) on “Engineering Biological Machines” organized by the **BSBE, IIT-Kanpur**.
- ❖ 6 Months project (January 2008-June 2008) during M.Sc. on “*Isolation, Purification and Differentiation of fungal isolates by RAPD*” at Centre for Biotechnology, **University of Allahabad** under the Guidance of **Dr. Anjana Pandey**.
- ❖ One year Project (July 2009- June 2010) during M. Tech on a water soluble vitamin “*Comparative studies of Folic acid production from Lactic acid bacteria*” at **School of Biochemical Engineering, Indian Institute of Technology (BHU), Varanasi** under the supervision of **Prof. Subir Kundu**.
- ❖ Five years and six months research experience during Ph. D on “*Studies on Folic acid production by different microorganisms and its fortification in food products*” at **School of Biochemical Engineering, Indian Institute of Technology (BHU)** under the supervision of **Prof. Subir Kundu**.
- ❖ Assistance in the seminar and dissertation projects of departmental IDD and M.Tech students and external students from other universities for their M.Sc. dissertation of 6 months duration during Ph.D.

Scientific Skills

❖ Instrumental handling/Techniques learned

BOD Incubator, Shaker, Bioreactor, High-Performance Liquid Chromatography, UV-Visible spectrophotometer, Autoclave, Ultrasonicator, Laminar Hood, Gas Chromatography, Biochemical methods, Gel electrophoresis (SDS-PAGE/PAGE), PCR, Isolation of plasmid & genomic DNA, Enzyme and microbial cell immobilization, Microbiological Assay.

❖ Softwares

Origin, Endnote, Chemdraw, Adobe Photoshop, Statistical Tool (SPSS, Minitab), Proficient in technical writing.

❖ Computational Proficiency

MS Office (Word, Powerpoint, Excel, Publisher), Internet Surfing, Paint.

Extracurricular Activities

- ❖ Attended an elementary four week part time Certificate Course in “Yogic practices for better living” organized by Yoga Sadhana Kendra, Malviya Bhawan, BHU in 2010.
- ❖ Involved as a volunteer in Utariya and Security Passes Distribution Committee in the First Convocation of the Indian Institute of Technology (BHU) held on July 10, 2013.
- ❖ Involved in teaching of illiterate women and children of near by village to spread literacy among the workers of MNREGA at Gramin Gyan Kendra, IIT (BHU), Varanasi.

References

Prof. Subir Kundu (Ph. D Supervisor)
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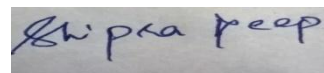
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I hereby declare that the given above information are true to the best of my knowledge and belief and can be supported with the reliable documents when needed.

Place: Pune
Date: 04/10/2017



(Shipra Deep)