Dr. D.Y. Patil Vidyapeeth's



Dr. D. Y. Patil Biotechnology and Bioinformatics

Mumbai-Bangalore Express High way, Tathawade, Pune 411033

Mail: info.biotech@dpu.edu.in, Website: http://biotech.dpu.edu.in



NAME: Dr. Nidhi Aggarwal

Designation: Assistant Professor

Email ID: nidhi.aggarwal@dpu.edu.in **Area of Specialization**: BioInformatics

Research Interest: Molecular Modelling & Dynamics Simulation, Drug Design, Proteomics,

Transcriptomics

EDUCATIONAL QUALIFICATIONS:

- 1. Ph.D. (Plant Biotechnology) 2016, Guru Jambheshwar University of Science & Technology, Hisar, Haryana, India Thesis title: Biotechnological Interventions for the enhancement of secondarymetabolites of *Andrographis paniculata*.
- 2. M.phil.(Plant Biotechnology) 2008, Vinayaka Mission University, Salem, India. Thesis title: Plant Tissue culture of *Ocimum sanctum* and *Tinospora cordifolia*.
- 3. M.Sc. (Biotechnology) 2007, Bikaner University, India.
- 4. B.Sc. (Biotechnology) 2005, Kurukshetra University, India.
- 5. Certification in BioInformatics, NPTEL, MHRD, Govt. of India.
- 6. Certification in Computer Aided Drug Design, NPTEL, MHRD, Govt. of India.
- 7. Certification in Next Genome Sequencing, MHRD, Govt. of India.

ACADEMIC RESEARCH: 06 Yrs.

- 1. Assistant Professor (2007 –2008): JCD College of Pharmacy, JCD Vidyapeeth, Sirsa, Haryana, India
- 2. Assistant Professor (2010–2011): F.C. College, Hisar, Haryana, India.
- 3. Assistant Professor (2016–2017): Om Institute of Technology & Management, Hisar, Haryana, India.
- 4. Assistant Professor (2018–2021): D.N. College, Hisar., Haryana, India.
- 5. Assistant Professor (2021–2022): Guru Jambheshwar University of Science & Technology, Hisar, Haryana, India.

Dr. D.Y. Patil Vidyapeeth's



Dr. D. Y. Patil Biotechnology and Bioinformatics

Mumbai-Bangalore Express High way, Tathawade, Pune 411033

Mail: info.biotech@dpu.edu.in, Website: http://biotech.dpu.edu.in

RESEARCH EXPERIENCE: 03 Yrs.

➤ WOS-A, Women Scientist Scheme, Department of Science & Technology, Technology Bhavan, New Delhi. File No. (SR/WOS-A/LS-229/2010). Duration: Nov. 2011- Nov. 2014.

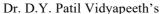
PUBLICATIONS:

- 1. Deepika Gulati, Minakshi Pal, Nidhi. In vitro studies of the *Ocimum sanctum*: Tulsi, Medicinal herb (2015) in American Journal of Pharmtech Research; 5(6). ISSN: 2249-3387.
- 2. Nidhi Jindal, Ashok Chaudhury Subhash Kajla. Shoot Proliferation and Multiplication from Nodes of *Andrographis paniculata* (2015) in International Journal of Pharmacy, 6(9). ISSN: 2230-8407.
- 3. Nidhi Jindal, Ashok Chaudhury Subhash Kajla. Establishment of Callus cultures of *Andrographis paniculata* for the assessment of Andrographolide content (2016) in International Journal of Research in Ayurveda and Pharmacy, 7(2).
- 4. Uma Kumari, Nidhi Agarwal, Devendra . In- silico Analysis and Computer Aided Drug Designing Approach for Mutants (2021) in International Journal of Biotechnology and Research. ISSN: 2249-796X.
- 5. Uma Kumari, Nidhi Agarwal. NGS and Mutational Profile Analysis of non small- cell lung carcinoma (2023) in International Journal for Research in Applied Science & Enineering Technology. ISSN: 2321-9653.
- 6. Nidhi Agarwal, Uma Kumari. Homology Modelling and NS Data Analysis of Brain Tumor glycogen phosphorylase using BioPython (2023) in International Journal for Research in Applied Science & Enineering Technology. ISSN: 2321-9653.

CONFERENCE PROCEEDINGS:

Participated in CTDDR-2013 5 TH Internatioal Symposium on Drug Development for Orphans/Neglected Diseases organized at CSIR-CDRI, Lucknow from 26-28 Feb, 2013.

- 2. Participated in UGC sponsored Interaction programme cum Workshop on Research Methodology organized at GJUS&T Hisar from 22-28 Feb. 2014.
- 3. Participated in International conference on Emerging Trends in Biotechnology (ICETB 2014), Indo Italian workshop on Industrial Pharmaceutical Biotechnology at Jawaharlal Nehru University, New Delhi from 6-9 November 2014.
- 4. Participated in Hands on Training on BioInformatics Tools & Description and Protein Analysis organized at GJUS&T Hisar from 22-28 March. 2014.
- 5. Organized and attended National Webinar on "Biotechnology: Applications and Perspectives" organized by Dayanand College, Hisar on 1-2 March, 2021.
- 6. Participated in Webinar on Machine Learning in Healthcare organized by MANAV, IISER PUNE on 3 Dec2020.
- 7. Participated in National Workshop organized by Internal Quality Assurance Cell, Dayanand College, Hisar on 16-18 March, 2021.





Dr. D. Y. Patil Biotechnology and Bioinformatics

Mumbai-Bangalore Express High way, Tathawade, Pune 411033

Mail: info.biotech@dpu.edu.in, Website: http://biotech.dpu.edu.in

EPIGEUM (Research Skill Courses):

- 1. Five Day Faculty Development Programme in "Emerging trends in Biotechnological advancements" online course 'Certificate with Honors' by NIT, Warangal from 13 -17 July 2020.
- 2. "Statistical Application in Data Science" one week online hands on training program organized by University of Hyderabad, from 18 23 May, 2020.
- 3. One month Hands on Training in "Computer Aided Drug Design using Pymol and AutoDock" by Rapture Biotechnology Pvt ltd, Noida from 14 th Aug 13 September 2021.
- 4. Two months Hands on Training in "Next Generation Sequencing in Cancer Research" by Rapture Biotechnology Pvt ltd, Noida from 1 Sep 31 Oct 2021.
- 5. Five days workshop on "Biopython- Basic to Advance" conducted on 15 th to 19 th May, 2023 by Bioinformatics Project Research Institute, Noida.
- 6. Five days workshop on "Biopython- Advanced" conducted on 1 st to 5 th June, 2023 by Bioinformatics Project Research Institute, Noida.

BIOINFORMATICS AND BIOTECHNOLOGY SKILLS:

Plant Tissue culture, secondary metabolite enhancement, secondary root induction and enhancement, Molecular modelling and simulations assisted Drug Design, Next generation Sequencing, Proteomics.