



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 secondary metabolites 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.

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 & Engineering 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 & Engineering Technology. ISSN: 2321-9653.

CONFERENCE PROCEEDINGS:

1. Participated in CTDDR-2013 5 TH International 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 & Techniques for Gene 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.

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.