

EDUCATION

YEAR	DEGREE/COURSE	INSTITUTION / BOARD	CGPA/%
2018	M. Tech in Biotechnology	Indian Institute of Technology (IIT) Mandi	7.99/10
2016	B. Tech in Biotechnology	Dr. B.R. Ambedkar NIT Jalandhar	7/10
2011	Higher Secondary	Everest public senior secondary school Ludhiana	74.5%
2008	Secondary/ Matriculation	Dream land public high school Ludhiana	70%

Teaching Experience

- July 2016-present, two and half year home tutor experience in Physics, Chemistry, Maths and Biology.
- I have still teaching 7 students in Delhi. I have taught more than 30 students till now.

RESEARCH PUBLICATIONS

1. Subhashini Pandey, Jitender Kumar, N. K. Srivastava, **Som Dutt** (2015). Homology modeling of DNA polymerase of Herpes viridae family and structure-based virtual screening for inhibitor, *Journal of Applied Pharmaceutical Science*, 5(12):48-55.
2. Vinod Kumar Yata, Anant Saxena, Vinita Sharma, **Som Dutt**, Ajit Kumar (2015). A computational study of interactions of trimethoprim with native and mutant dihydrofolate reductase structures, *International Journal of Innovative Research in Science, Engineering and Technology* 4(5):3740-3743.

CONFERENCES

1. **Som Dutt** (2017). Computer aided design of novel inhibitors against serine beta-lactamase of *SME*. Poster presentation at International Conference on Drug Design, Jawaharlal Nehru University (JNU), Delhi.
2. **Som Dutt**, Dr. Nitai Basak (2017). Computer-aided drug design of some novel inhibitors against beta-lactamase of *Pseudomonas aeruginosa* enzyme (GES-2) via molecular docking and virtual screening approach. Oral presentation at National Conference on Application of Biotechnology in Industry and Society, NIT Jalandhar. Punjab.
3. Vinod K. Yata, Anant Saxena, Vinita Sharma, **Som Dutt**, Ajit Kumar (2015). A computational study of interactions of trimethoprim with native and mutant dihydrofolate reductase structures. Oral presentation at International Conference on Emerging Trends in Engineering and Technology, Ludhiana, Punjab.
4. **Som Dutt**, Ajit Kumar, Pankaj Goyal & Bhupesh Tiwari (2015). Modification of soil Microbial activity by addition of fly ash to improve crop productivity. Oral presentation at National Conference on Perspectives and Challenges towards Use of Fly, Universal Institute of Technology, Hisar, Haryana.
5. International Conference on Recent Advances in Bio-energy Research (2015) at SSS National Institute of Bio-Energy, Kapurthala, Punjab.

PROJECTS/ INTERNSHIP

- M. Tech thesis on "Computational Investigations of Irradiance for Photo-bioreactor for Exploration of Algal Growth" (2017-2018) under Dr. Tulika Srivastava (Guide), School of basic Science IIT Mandi and Dr. Dhiraj V. Patil (Co-Guide), Department of Mechanical Engineering, IIT Dharwad.

- Four month project as a part of course named Metagenomics, and Next Generation Sequencing Technologies on "Comparative metagenomics analysis of the human and mice gut microbiota disturbance during antibiotic therapy by 16S RNA amplicon sequencing bioinformatics tools" (2017) through command line under Dr. Tulika Srivastava, IIT Mandi.
- Six month project as a part of course on “Antibacterial activities analysis of essential Oils from *Piper cernuum* by ¹³C-NMR and GC/MS” (2017) at IIT Mandi.
- Four month project on “Aerobic fermentation and Growth comparison of *Ralstonia utropha* (MTCC 8320) in Rich and Minimal Media using pure culture techniques: a kinetic study” (2016-17) under Dr. Shyam K. Masakapalli, IIT Mandi.
- B.Tech final year project: on the topic of "Computer Aided Design of drugs against Class A beta-lactamase of *Pseudomonas aeruginosa* enzyme (GES-2) via molecular docking and virtual screening approach" (2015-16) under Dr. Nitai Basak (Head of the Department of Biotechnology at NIT, Jalandhar)
- Six week internship on "Inhibitors of the beta-lactamase of *Serratia marcescens* isolates (SME-1): A computational investigation integrating Simulation Dynamic, Virtual Screening and Docking approaches"(2015) under Dr. V. S. K. Mattaparthi (Specialized: Molecular modelling and simulation laboratory, Tezpur University, Assam)

AWARDS/ ACHIEVEMENTS

- Graduate Aptitude Test in Engineering (**GATE**-2016) fellowship for 3 years by MHRD ministry government of India.
- Won **1st prize** in “**Bio-modelling**” for the construction of "**Digital Microscope**"– Techniti at (NIT Jalandhar-15)
- Won **1st prize** in “**Bio-modelling**” for the construction of "**Microbial Fuel Cell**"– Techniti at (NIT Jalandhar-13)
- Qualified All India Engineering Entrance Examination (**AIEEE**-2012).
- Qualified Institute of Technology Joint Entrance Examination (**IIT-JEE**-2012).