

Faculty Profile

Name: Mr. Sabyasachi Mohanty
Qualification: MSc, M.Phil in Bioinformatics (Gold Medal),
GATE Qualified
Designation: Assistant Professor (Head of the Department)
Email Id: sabyasachi.mohanty22@gmail.com
bjbbioinformatics@gmail.com
Contact No: +91 9861404459, 9692425816



Area of interest:

Cell Biology & Genetics, Molecular Biology, Genetic Engineering, Biochemistry & Metabolism, Bioprocess Technology, Bioinformatics, Genomics, Proteomics, Metabolomics

Area of research:

Metabolomics, Microbial Genomics, Computer Aided Drug Design, QSAR, Sequence Alignment, Homology Modeling, Protein threading

Teaching Area:

- Under Graduation** : Basic Bioinformatics, microbiology, Immunology, Molecular Biology, Biochemistry, Drug Design, Immunoinformatics, Chemoinformatics, Pharmacogenomics
- Post Graduation** : Biochemistry, Molecular Biology, Genetic Engineering, Structural Bioinformatics, Computational Genomics, Computational Biology, Computer Aided Drug Design

Total No. of Teaching Experience (Yrs):

- UG: 14 yrs
- PG: 14 Yrs

Publication Profile

Research Articles Published:

- 1 "Prediction of the 3-Dimensional Structure of Growth Hormone Protein of Catla catla by Homology Modeling" Shasank Sekhar Swain*, A.S. Mohapatra, S. Mohanty, Central Institute of Freshwater & Aquaculture(CIFA), Bhubaneswar, BJB(A) College, Bhubaneswar, Journal of Marine Sciences, page no.25. The paper had been selected for poster presentation in NATIONAL CONFERENCE ON AQUATIC ANIMAL HEALTH AND MANAGEMENT – 14-15 September 2012 (NCAAHM - 2012), Annamalai University, and it bagged First Prize in the conference.
- 2 "insilico approach in the prediction and analysis of the 3-Dimensional structure of Malyacetylase reductase: A Biodegrading protein" S.S.Swain, S Mohanty, P.Padhi Department of Bioinformatics, BJB(A) College, Research and Development Center, Hi-Tech Medical College and Hospital, Bhubaneswar paper published in the Book of Abstracts of Microciencia-2012. Paper submitted to Indian Journal of Microbiology.
- 3 "In silico structural analysis and characterization of HUMAN KiSS-1 receptor:A metastasis suppressor protein in melanomas and breast cancer" S.S. Swain*, S. Mohanty*, D.Panda, S.K. Rout, P. Padhi, Department of Bioinformatics, BJB (A) College, Bhubaneswar-751014, India,

Konark Institute of Science and Technology, Techno Park, Jatni, Bhubaneswar-752050, Research & Development Center, Hi-Tech Medical College and Hospital, Bhubaneswar- 751010 published in Journal of Endocrinology and Reproduction in Dec -2012, 16 (2012) 2 : 57-64

- 4 “Degradation of Carbazole by Microorganisms: A computational approach”. S S Swain, S Mohanty, P.Panda BJB(A) College, published in conference proceedings of National conference of Carbon dioxide Capture, Storage & Recycling held on 27th and 28th April 2013, organized by AMRC, KIST, Khurda
- 5 “Prediction of the three-dimensional (3D) Structure of Somatostatin Receptor Type 1 of Homo sapiens by Homology Modelling” Shasank Sekhar Swain*, Biaranchi Narayan Sahoo, Sabyasachi Mohanty, and Payodhar Padhi, Research & Development Center, Hi-Tech Medical College and Hospital, Bhubaneswar-751025 2Department of Bioinformatics, BJB (A) College, Bhubaneswar-751014 published in Research Journal of Pharmaceutical, Biological and Chemical Sciences ISSN: 0975-8585 in Aug’2013.
- 6 “Computational Biomodelling Pathway Analysis and Docking Study of Alzheimer’s Disease, Amyloid protein ” Shasank Sekhar Swain¹, Sabyasachi Mohanty¹, Payodhar Padhi, Research & Development Center, Hi-Tech Medical College and Hospital, Bhubaneswar- 751025 2Department of Bioinformatics, BJB (A) College, Bhubaneswar-751014 published in Research Journal of International Conference of Neuroscience, Brain Plasticity and Neurological Disorder, held on 9-11 Nov 2013.
- 7 “ Docking and QSAR approaches for designing of Ligands for Gastric Proton Pump (H⁺K⁺ATPase)” Mohanty S*, Pattnaik G D, Behera C C, under review for the HELIX journal by Springer Publications
- 8 “Mycosubtilin: 3D protein structure prediction and its extensive study as a biosurfactant” Sabyasachi Mohanty *, Sarbani Mishra published in International Journal of Applied Chemical and Biological Sciences (2021), 2(6), 50-56 ISSN 2582-788X (Online)
- 9 “In Silico Analysis of Potential Antidiabetic Phytochemicals from *Occimum Santum* against Ptp1b and Aldose Reductase in Diabetes Mellitus” Dr. Susanta Kumar Rout¹, Ms. Supriya Nayak² and Sabyasachi Mohanty² published in International Journal of Drug Development and Research 1791-809X, 2022 Vol. 14 No. 7: 964

Papers presented in Conferences/Seminars:

1. “*Docking and QSAR approach to design Ligands in Transmembrane Proteins*”, Presented at International Conference in Bioinformatics, Organized Andhra University at Vishakapatnam, December 20-22, 2016

Invited/Special Lectures/Resource Persons or Presentations at Conferences/ Workshops:

1. “*QSAR approaches to calculate Biological Activity in biomolecules*” presented at Faculty Development Programme held on September 2018, at Odisha University of Agriculture & Technology, Bhubaneswar
2. “*Homology Modeling and Prediction of Unstructured Biomolecules*” at Resource Speaker in Workshop cum Hands on Training Program on Molecular Biology Tools, organized by Central Institute of Freshwater & Agriculture (CIFA), Kaushalyaganga, Bhubaneswar, May 20-21, 2016
3. “*COVID, MYTH or MYSTERY*”, keynote speaker in online webinar, organized by School of Pharmacy & Life Sciences, Centurion University of Agriculture and Technology. Held on June 19, 2020.
4. “*Bioinformatics in identifying putative active sites in Proteins*” Keynote speaker in online webinar at Biogoonz, Unit of SOA university, held on November 19, 2020

Association with Professional Bodies:

1. Editorial Board Member in Research Valley Publications, International Journal of Data mining and Bioinformatics
2. Editorial Board Member in International Journal of Applied Chemical & Biological Sciences, Vishnav Publications
3. Reviewer in Clarivate Publications of International Journal of Bioinformatics.