Gauray Pandey

gaurav.pandey789@gmail.com

@gauravpandey789

http://pandey-gaurav@github.io/

http://https://in.linkedin.com/in/gaurav-pandey-35131a27/



Education

2013 – present ▶ Ph.D. Student, IIT Guwahati, India in Biosciences and Bioengineering. (Cumulative Grade Point 9/10) Thesis title: Effects of Physical and Chemical Perturbants on Aggregation and Nano-Scale Self-Assembly of Peptides. Under the Supervision of Dr. Vibin Ramakrishnan and Dr. Nitin Chaudhary. ■ M.Tech. Bioinformatics, University of Hyderabad, India (Cumulative 2011 - 2013Grade Points Average 9.31/10). Thesis title: Meta-Analysis of Epigenetic and Gene Expression Signatures Identifies Novel Regulators of Embryonic Stem Cell Identity. Under the Supervision of Dr. Sailu Yellabolina (CR Rao AIMSCS). First Class with Distinction. 2007 - 2011■ B.Tech. Biotechnology, Gautam Buddh Technical University, India. First Class with Distinction (81.060%). 2005 - 2007**Senior Secondary (Grade 10+2)**, First Class with Distinction (87.775%). **Indian School Certificate** ■ Higher Secondary (Grade 10), First Class with Distinction (85.400%). In-

Research Interests

2004 - 2005

▶ Peptide Self-Assembly and Amyloid aggregates, Peptide Based Drug Design and Development, Peptide Based Bio-Nano Assemblies and Functional Peptide Design.

dian Certificate of Secondary Education

Research Publications

1) Gaurav Pandey, Jahnu Saikia, Sajitha Sasidharan, Deep C. Joshi, Subhash Thota, Harshal B. Nemade, Nitin Chaudhary, and Vibin Ramakrishnan.

Modulation of Peptide Based Nano-Assemblies with Electric and Magnetic Fields. Scientific Reports. doi:10.1038/s41598-017-02609-z

Patents Filed

1) Inventors: Vibin Ramakrishnan, Gaurav Pandey, Harshal B. Nemade, Jahnu Saikia, Sajitha S, and Nitin Chaudhary.

Patent No. TEMP/E-1/25296/2017-KOL. Dated 13.07.2017

Office: Controller of Patents, Kolkata.

2) Inventors: Vibin Ramakrishnan, Sajitha S, Nitin Chaudhary and Gaurav Pandey.

Patent No. 243/KOL/2015. Dated 09.03.2015

Office: Controller of Patents, Kolkata.

3) Inventors: Vibin Ramakrishnan, Sajitha S, Nitin Chaudhary and Gaurav Pandey.

Patent No. TPatent No. 201631011471 Dated 31.03.2016

Office: Controller of Patents, Kolkata.

Bioinformatics Skills

Languages

C,Python*, R*, Perl,

*Elementary Proficiency

Operating Systems | Windows, Linux, Mac.

Public Domain Knowledge NCBI, RCSB, PDB-SUM, Swiss-Prot.

Sequence Analysis Softwares 📕 BLAST, FASTA, Clustal W, Sequin

Molecular Dynamics Simulation ■ Gromacs.

■ Docking and QSAR Studies] Gold, SybylX.

■ Molecular modeling and visualization] Swiss-Modeller, Pymol, Rasmol, Avogadro, Chimera, Discovery Studio, Material Studio.

Web Dev ☐ HTML, CSS.

Misc. Softwares Chemsketch, ProCheck, RAST, Cytoscape, Pross, Ribosome.

Technical Skills

Biophysical Techniques Spectroscopy (UV-Vis, Fluorescence, IR, CD, Raman), HPLC, AFM, Powder XRD, ITC.

Miscellaneous Experience

Presentations/Conferences/Workshops Attended

- 2017 **Poster Presented**, at National Workshop on Fluorescence and Raman Spectroscopy, IIT Guwahati.
 - **Oral Presentation**, at International Conference on Advances in Biological Systems and Materials Science in NanoWorld, IIT BHU.
- 2016 **Poster Presented**, at Research Conclave, IIT Guwahati.
 - Workshop Attended, National Workshop on Advanced Probing Techniques in TEM, IIT Guwahati.
- 2015 Workshop Attended, IuCr Workshop on X-Ray Difraction Systems and Related Applications, IIT Guwahati.
- 2013 Poster Presented, at UoH-Academia Sinica Joint Workshop on Frontiers in Biological Sciences, University of Hyderabad.
- 2012 **Poster Presented**, at Indo-German Symposium on Systems Biology, University of Hyderabad.
 - Poster Presented, Association of DNA Fingerprinting and Associated Technologies (ADNAT) Convention, CR Rao AIMSCS.

Miscellaneous Experience (continued)

2010 | Internship, in Quality Assurance Division PepsiCo India Limited.

Teaching Experience

2015-2016 Bioinformatics and Computational Biology, Teaching Assistant, IIT Guwahati.

Extra Curricular Activities

- 2015 2016 ■ Hostel Welfare Secretary, 2015-16,IIT Guwahati.
 - Member Student Welfare Board, 2015-16, IIT Guwahati.

Awards and Achievements

- 2011 Institute Award, for securing rank 2 in B.Tech. Course at Department of Biotechnology, CET-IILM-AHL.
 - **Qualified Gate.**with 94 percentile.
- 2013 Secured rank 2 in M.Tech. Course at Department of Biotechnology and Bioinformatics, University of Hyderabad.
 - **Qualified Gate** with 99.9 percentile.
- 2017 First Prize in Oral presentation at International Conference on Advances in Biological Systems and Materials Science in NanoWorld, IIT BHU.

Professional Affiliations

Memberships

- American Peptide Society.
- Indian Biophysical Society.
- Society of Biological Chemists, India.

Personal

Languages Strong reading, writing and speaking competencies for English and Hindi.

Activities and Interests ■ Swimming, Running, Badminton and Travel.

References

Dr. Vibin Ramakrishnan

■ Associate Professor, Indian Institute Technology Guwahati, . email id: vibin@iitg.ernet.in

Dr. Nitin Chaudhary

Associate Professor, Indian Institute Technology Guwahati, . email id: nitin@iitg.ernet.in

Dr. Sailu Yellaboina

■ Associate Professor, CR Rao Advanced Institute of Mathematics, Statistics and Computer Science (AIMSCS), . email id: bio.sailu@gmail.com