

Gaurav 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.
- 2011 – 2013 📌 **M.Tech. Bioinformatics, University of Hyderabad, India** (Cumulative Grade 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 Buddha 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
- 2004 – 2005 📌 **Higher Secondary (Grade 10), First Class with Distinction (85.400%).** In-
dian Certificate of Secondary Education

Research Interests

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

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, \LaTeX . *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, Py-mol, Rasmol, Avogadro, Chimera, Discovery Studio, Material Studio.
Web Dev	■ HTML, CSS.
Misc. Softwares	■ Chems sketch, ProCheck, RAST, Cytoscape, Pross, Ribosome.

Technical Skills

Organic Synthesis	■ Solid Phase Peptide Synthesis.
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 Diffraction 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.

