# **Gauray Pandey**

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## **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. Patent 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.
- European 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