

BIO-DATA

1. **Name:** Dr. Ranjan Sarmah
2. **Designation:** Assistant Professor
3. **Educational Qualification:** MCA, Ph.D
4. **Specialisation:** Artificial Intelligence, Database Management
5. **Area of Interest:** Bioinformatics
6. **Date of Joining:** 10-09-2012
7. **Date of Birth:** 15-11-1983
8. **Email ID:** sarmah.ranjan@gmail.com
9. **Contact No.:** 9435156782
10. **Awards & Achievements:** Nil
11. **Teaching Experiences:** 6 years
12. **Orientation/Refresher/Short term Course Attended:**
 - a) **Orientation Course:** Nil
 - b) **Refreshers Course:** Nil
 - c) **Short term Course:** One month training at Indian Statistical Institute, Kolkata
13. **Research Project carried out & Guidance:**
 - a) **Minor Research Project:** Nil
 - b) **Major Research Project:** Nil
 - c) **Guidance:** Project works of the JEC 6th semester students.
14. **Past/Ongoing corporate responsibilities:** Controller of Examination (i/c), Member Secretary of Tender & Purchase Committee, Head of Hostel Management cell, HOD (i/c) of School of Innovation & Technology etc. of the University
15. **Academic Association:** Closely associated with training under Government funded projects.
16. **Research Papers:** 09 Papers

- 1 **Sarmah R, Modi M.K and Begum S.A. "ANN Based Feature Selection Approach Using Hybrid GA-PSO for siRNA Design" *International Journal of Computer Science & Information Technology (IJCSIT)* (2017). ISSN: 0975-3826(online), 0975-4660 (Print). (UGC Approved J.N-2775)**

- 2 **Sarmah R**, Begum S.A and Modi M.K. “A hybrid GA-ANN approach in building efficient model for prediction of siRNA knockdown efficiency in Plant Pathogens” *International Journal of Computer Science and Information Security(IJCSIS)* (2016). **ISSN: 1947-5500, 14(12)**.
- 3 **Sarmah R**, Begum S.A and Modi M.K. “In SILICO Approach to Design Potential Small Interfering RNA (siRNA) against Plant Pathogens and Diseases” *International Journal of Innovative Research and Development*. (2015). **ISSN: 2278-0211, 4(12), 93-107**.
- 4 Sahu M, Dehury B, **Sarmah R**, Sahoo S, Sahu J, Sarma K, Sen P, Modi MK and Barooah M. “In silico prediction and characterization of three-dimensional structure of Actin-1 of *Arabidopsis thaliana*”. *Biotechnologia* (2013) 94(4):432-443.
- 5 **Sarmah R**, Sahu J, Dehury B, Sarma K, Sahoo S, Sahu M, Barooah M, Sen P and Modi MK. “ESMP: A high-throughput computational pipeline for mining SSR markers from ESTs”. *Bioinformatics*. (2012) 8(4): 181-184. **PMID: 22419843**
- 6 Sahu M, Sahu J, Sahoo S, Dehury B, Sarma K, **Sarmah R**, Modi MK, Sen P and Barooah M. “An approach to delineate primers for a group of poorly conserved sequences incorporating the common motif region”. *Bioinformatics*. (2012) 8(4): 206-208. **PMID: 22419837**
- 7 Sahu J, **Sarmah R**, Dehury B, Sarma K, Sahoo S, Sahu M, Barooah M, Modi MK and Sen P. “Mining for SSRs and FDMs from Expressed Sequence Tags of *Camellia Sinensis*”. *Bioinformatics*. (2012) 8(6): 260-266. **PMID: 22493533**
- 8 Sarma K, Dehury B, Sahu J, **Sarmah R**, Sahoo S, Sahu M, Sen P, Modi MK and Barooah M. “A comparative Proteomic Approach to Analyse Structure, Function and Evolution of Rice Chitinases: A Step towards Increasing Plant Fungal Resistance”. *Journal of molecular graphics and modelling*. (2012). **DOI: 10.1007/s00894-012-1470-8**
- 9 Dehury B, Sarma K, **Sarmah R**, Sahu J, Sahoo S, Sahu M, Modi MK, Sen P and Barooah M. “*In silico* analyses of superoxide dismutases (SODs) of rice (*Oryza sativa L.*)”. *Journal of Plant Biochemistry and Biotechnology*. (2012). **DOI 10.1007/s13562-012-0121-6**.

17. Conference Paper: 01

Sarmah R, Begum S.A and Modi M.K, “NEURO-GENETIC HYBRID APPROACH TO PREDICT siRNA EFFICACY IN PLANT VIRUSES” Proceedings of Fourth International conference on Emerging Research in Computing, Information, Communications and Applications (ERCICA-2016). *doi.10.1007/978-981-10-4741-1-58*. ISBN 978-981-10-4740-4, ISBN 978-981-10-4741-1.

18. Books: Nil

19. Chapter in Books: Nil

20. Edited Books: Nil

21. Articles: Nil

22. Seminars/Workshops/Trainings attended:

(i) Seminars:

(a) **International:** 02 Seminars

(b) Presented a Poster on “**Single Window based computational pipeline for designing SSR markers from ESTs**” in International Conference on Plant Science and Post Genomic Era (ICPSPGE-2011) at Sambalpur University, Odisha.

(c) Presented a paper entitled “NEURO-GENETIC HYBRID APPROACH TO PREDICT siRNA EFFICACY IN PLANT VIRUSES” at ERCICA-2016, Bangalore.

(d) **National:** Nil

(ii) **Workshops:**

(a) **International:** Nil

(b) **National:** Nil

(i) **Trainings:**

(a) **Traineeship of National Training Cum Workshop on “Agri-Bioinformatics Promotion Programme” held on August at Gujarat SDA university**

23. Services rendered:

a) **In the Institution:** Try to inspire the students for study and acquiring knowledge.

b) **In the Society:** Try to create an academic environment in the society.

(Dr. Ranjan Sarmah)

Date: 16-11-2018