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Current Synthetic and Systems Biology

Name: Ashish Runthala

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Date of birth : 1982.12

Graduate institutions: Birla Institute of Technology and
Science, Pilani, Rajasthan, INDIA

Biological Sciences
Computational Biology and Bioinformatics
Chief Protein Science

Graduate tutor
Master tutor
Lecturer



Employment

- ❖ Teaching Assistant, Birla Institute of Technology and Science, Pilani, Rajasthan, INDIA
- ❖ Assistant Lecturer, Birla Institute of Technology and Science, Pilani, Rajasthan, INDIA
- ❖ Lecturer, Birla Institute of Technology and Science, Pilani, Rajasthan, INDIA

The research field

- ❖ Protein Science and Protein structure prediction algorithms, Computational Biology and Evolutionary Bioinformatics are the main thrust areas of research.

To undertake research projects

- ❖ 《To develop quick and highly accurate protein structure prediction algorithms by improving the following steps: 》
- ❖ 《Selection of closest templates to build protein structures by combining topology of reliable fragments along with top-ranked templates to build correct model topology. 》
- ❖ 《Fast & quickly converging Model Generation Algorithm instead of selection of promising decoy from a time consuming process of generating varying set of large number of decoys, of which a few are actually correct near-native models. 》

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- ❖ 《Utilizing available information the best way to avoid the cases of shifted alignments, which mostly result in improper structural occupancy of solvent exposed beta strands. This will essentially combine topology of reliable fragments from several templates to build correct model conformation. 》
 - ❖ 《Knowledge based refinement of existing protein structure algorithms, to model protein sequences through promising scaffolds of reliable known conformations 》

The scientific article

- ❖ Published more than 16 papers as well as book chapters in prestigious journals and research volumes. One paper got awarded the first rank by Biomedupdater service for its extensive downloads. Reviewer or Editor for 40 high-impact journals of International or National repute.

Current Synthetic and Systems Biology Related Journals

- Biomaterial Journals
- Computational Science Journal
- Journal of Biotechnology
- Proteomics Journal
- Systems Biology Journal



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