



Biomolecular Forms and Functions: A Celebration of 50 Years of the Ramachandran Map

Manju Bansal, N Srinivasan

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Understanding the functions and properties of molecules in living systems requires a detailed knowledge of their three-dimensional structures and the conformational variability that allows them to adopt multiple functional forms. Interpreting biological systems in the language of three-dimensional structures is of fundamental importance and innumerable research groups around the world are working in this area. This book is a compilation of articles describing attempts at understanding the intricacies of biological systems through the structures of and interactions between their constituent molecules.

Contents:

- The Legacy of G N Ramachandran and the Development of Structural Biology in India (*M Vijayan*)
- The Open-Ended Intellectual Legacy of GNR (*George Rose*)
- The Ramachandran Plot and Protein Structure Validation (*Roman A Laskowski, Nicholas Furnham and Janet M Thornton*)
- Analysis of Dihedral Angle Variability in Related Protein Structures (*Shekhar C Mande, Ashwani Kumar and Payel Ghosh*)
- Multiprotein Assemblies: Modulating Cell Activity Through Targeting Protein-Protein Interfaces (*Alicia P Higuero, Harry Jubb and Tom L Blundell*)
- Computational Approaches for Understanding the Recognition Mechanism of Protein Complexes (*Michael Gromiha*)
- Cold-Shock Domains — Versatile Molecular Modules for Single-Stranded RNA Binding and Remodeling (*Florian Mayr and Udo Heinemann*)
- Protein Disulfide Analysis and Design (*Siddharth Patel, S Indu, C Ramakrishnan and Raghavan Varadarajan*)
- Controlling Conformational Dynamics to Modulate Protein Function (*Shahir S Rizk, Marcin Paduch and Anthony A Kossiakoff*)
- Structural Bioinformatics Approaches for Deciphering Biosynthetic Code of Secondary Metabolites (*Shradha Khater and Debasisa Mohanty*)
- The Inherent Structure Landscape of Met-Enkephalin Determined by the MOLS Technique (*N Balaji, L Ramya and N Gautham*)
- and other papers

Readership: Practicing researchers in academia and industry.

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