



CALL FOR PAPERS

ICPSDMA 2020
Nov 02-03, 2020
San Francisco, USA

The International Research Conference is a federated organization dedicated to bringing together a significant number of diverse scholarly events for presentation within the conference program. Events will run over a span of time during the conference depending on the number and length of the presentations.

ICPSDMA 2020 : International Conference on Protein Structure Design, Methods and Applications is the premier interdisciplinary forum for the presentation of new advances and research results in the fields of Protein Structure Design, Methods and Applications. The conference will bring together leading academic scientists, researchers and scholars in the domain of interest from around the world. Topics of interest for submission include, but are not limited to:

Protein design
Models of protein structure and function
Target structure
Sequence space
Structural flexibility
Energy function
Computational protein design
Protein interactions
Design of globular proteins
Design of transmembrane proteins
Design of fibrous proteins
Challenges for effective protein design energy functions
Protein design as an optimization problem

Algorithms
Algorithms with mathematical guarantees
Dead-end elimination (DEE)
Branch-and-bound algorithms
Optimization as an integer linear program
Message-passing based approximations to the linear programming dual
Optimization algorithms without guarantees
Monte Carlo and simulated annealing
Belief propagation for protein design
Applications and examples of designed proteins
Enzyme design
Design for affinity
Scoring binding predictions