



# 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