

27O-ISMS36 **Unstructured Protein: A New Approach for Drug Discovery by Natural Product Templates**

○Hiroyuki KOUJI¹, Akira KATOH¹

¹Translational Chemical Biology Laboratory, Faculty of Medicine, Oita University

Translational Chemical Biology Laboratory (TCB Lab) has developed a unique helix mimetic technology by Natural Product Templates. This technology is very useful for the drug discovery research in unstructured/structured protein interactions. TCB Lab is collaborating with many academics in various drug discovery projects focused on attractive protein targets which have unstructured target region(s) and are closely related with serious diseases. In this presentation, the history of helix mimetic technology in these 20 years research in the first place, secondly the basic compound design concept of helix mimetic technology focused on Natural Product Templates, and lastly, the application of this technology for various protein-protein interactions will be explained with the examples of the protein targets in the collaboration with academics.