Joint Symposium

1SAa	June 24 (Mon) 9:00-11:30 (tentative)	<Session Language:English>
Extreme imaging to explore the boudaries between cell biology and protein science		
Organizers:Akihiko Nakano (RIKEN), Yasushi Okada (The Univ. of Tokyo / RIKEN)		
Speakers:Akihiko Nakano (RIKEN), Yasushi Okada (The Univ. of Tokyo / RIKEN), Aubrey Weigel (HHMI), Hitoshi Kurumizaka (The Univ. of Tokyo)		
One of the next frontiers at the boundaries of cell biology and protein science would be explored by the imaging technologies to visualize how proteins work in a living cell at single-molecule and ultrahigh-resolution levels. Technical breakthroughs in microscope technologies both in cryo-EM and super-resolution microscopy are now opening the door to reach this goal. In this symposium, pioneers in this field are invited to discuss on their recent achievements and their visions.		

2SAp	June 25 (Tue) 16:30-19:00 (tentative)	<Session Language:English>
Cryo-EM to visualize proteins in the Cell		
Organizers:Masahide Kikkawa (The Univ. of Tokyo), Hideki Shigematsu (RIKEN)		
Speakers:Masahide Kikkawa (The Univ. of Tokyo), Yoshiyuki Fukuda (The Univ. of Tokyo), Nayuki Miyazaki (Osaka Univ.), Yukihiko Sugita (Osaka Univ.)		
CryoEM has been in an increased attention as structural analysis method of proteins. Beside the high-resolution work close behind X-ray crystallography, it has been developed for cellular structure visualization. Here we arrange this symposium with active researchers in cryoEM for their high-resolution single particle reconstruction or electron cryo-tomography.		

3SAa	June 26 (Wed) 8:45-11:15 (tentative)	<Session Language:English>
Emerging concepts on protein science: From nanoscale to cells		
Organizers:Hideki Taguchi (Tokyo Inst. of Tech.), Kenji Inaba (Tohoku Univ.)		
Speakers:Hideki Taguchi (Tokyo Inst. of Tech.), Kenji Inaba (Tohoku Univ.), Keiji Tanaka (Tokyo Metropol. Inst. Med. Sci.), Osamu Nureki (The Unv. of Tokyo), Toshifumi Inada (Tohoku Univ.), Toshio Ando (Kanazawa Univ.)		
Recent years have witnessed a drastic change in protein science. In addition to “classical” structural biology and protein folding studies, new topics such as phase separation and nascent-chain biology are emerging, leading to the expansion of protein science. This symposium will introduce a variety of cutting-edge researches, and then discuss the role of protein science in life science including cell biology.		

3SAp	June 26 (Wed) 13:50-16:20 (tentative)	<Session Language:English>
New perspectives on Wnt signaling, unveiled by structural and cell biology		
Organizers:Michiru Nishita (Kobe Univ.),Naoki Shibata (Univ. of Hyogo)		
Speakers:Junichi Takagi (Osaka Univ.), Shin-ichi Terawaki (Gunma Univ.), Naoki Shibata (Univ. of Hyogo), Akira Kikuchi (Osaka Univ.), Shinji Takada (NIBB), Michiru Nishita (Kobe Univ.), Tohru Ishitani (Gunma Univ.)		
The field of Wnt signaling has emerged from the genetic analysis in Drosophila and greatly developed by the discovery of the first mammalian Wnt gene, int1 (Wnt1), in 1982. It has now become clear that Wnts are widely implicated in diverse physiological and pathological processes, acting through multiple functionally divergent signaling pathways depending on the context. In this symposium, the leading researchers will present their latest findings on Wnt signaling obtained using different approaches based on structural biology and cell biology and discuss the new trends in this field.		