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Keynote 1 - Influence of Genetic Mutation and Disease on Membrane Electrostatics, Mechanics and Dynamics

Wednesday 12 September 2018 13:15 (40 minutes)

Mounting evidence suggests that the genetic disorders/mutation and diseases change not only the protein expression patterns but also membranes themselves. In my talk, I will show you some examples how such biological cues influence the dynamic properties of membranes. For this purpose we employ the combination of experimental techniques in real and reciprocal spaces, including grazing incidence X-ray scattering and fluorescence, off-specular neutron scattering, flicker spectroscopy, etc.

Presenter: Prof. TANAKA, Motomu (Heidelberg University, Germany and Kyoto University, Japan)

Session Classification: Biointerfaces: Afternoon sessions