## **International Workshop "From Soft Matter to Protocell 2020"**

Online: Zoom Webinar

## Program (UTC)

## Oct. 28

Chair: Taro Toyota 15:00 Opening address: Masayuki Imai 15:05 Peter Walde (ETH) Emergent properties of vesicles as protocell models Yutetsu Kuruma (JAMSTEC) 15:55 Construction of artificial photosynthetic cell toward an autonomous system. 16:35 Kate Adamala (U. Minnesota) Building life to figure out how life started 17:25 Chair: Kate Adamala 17:35 Benjamin Rogers (Brandeis University) Exploring the pathways to self-organization using DNA nanotechnology 18:15 Yusuke Maeda (Kyushu Univ.) Understanding symmetry breaking induced by cell-sized compartments: 19:05 a minimal cell approach

## Oct. 29

| Oct. 29               |   |
|-----------------------|---|
| Chair: Yutetsu Kuruma |   |
| 15:00                 | Sheref Mansy (Univ. Alberta)  |
|                       | Prebiotic and biological mimetic protocells                                 |
| 15:50                 | Dora Tang (MPI-CBG)   |
|                       | Bottom up synthetic cellularity   |
| 16:40                 | Minoru Kurisu (Tohoku University)   |
|                       | Sustainable reproduction of vesicles coupled with surface confined template |
|                       | polymerization  |
| 17:20                 | Break   |
| Chair: Yusuke Maeda   |   |
| 17:30                 | Taro Toyota (Univ. Tokyo)   |
|                       | Perfusion chamber for observing giant vesicles                              |
| 18:10                 | Neal Devaraj (UCSD)   |
|                       | Cell membrane mimetic chemistry   |
| 19:00                 | Closing Remark : Peter Walde  |