

Name : NOMURA M. Shin-ichiro

Expertise : Artificial Cell Engineering, Biophysics

Affiliation : TOHOKU University, Graduate school of Engineering,

URL : <https://sites.google.com/site/smnomuralaboratory/english>



Reserch Theme in This Project:

Constructing Artificial Autonomous Amoeba as a 2nd generation of "Molecular Robot"

Main Research Results, Publications:

- Keitel Cervantes-Salguero, Shogo Hamada, Shin-ichiro M. Nomura and Satoshi Murata, "Polymorphic Ring-Shaped Molecular Clusters Made of Shape-Variable Building Blocks", *Nanomaterials* 2015, 5(1), 208-217; doi:10.3390/nano5010208
- Morimoto, N., Muramatsu, K., Nomura, S.-I. M., & Suzuki, M. "Trading polymeric microspheres: Exchanging DNA molecules via microsphere interaction." *Colloids and Surfaces B-Biointerfaces*, 128C, 94-99 (2015). doi:10.1016/j.colsurfb.2015.02.014.
- Subtle Yoshizawa, Kei Fujiwara, Shin-ichiro M. Nomura, and Satoshi Murata "DNAナノテクノロジーのためのアウトリーチツールの開発と評価", *形の科学会誌*, 29(2), pp87-96 (2014) ISSN 0915-6089.
- Akira C. Saito, Toshihiko Ogura, Kei Fujiwara, Satoshi Murata, Shin-ichiro M. Nomura, "Introducing Micrometer-Sized Artificial Objects into Live Cells:A Method for Cell-Giant Unilamellar Vesicle Electrofusion", *PLoS ONE* 9(9): e106853 (2014). DOI: 10.1371/journal.pone.0106853
- Kei Fujiwara, Miho Yanagisawa and Shin-ichiro M. Nomura, "Reconstitution of intracellular environments in vitro and in artificial cells", *BIOPHYSICS*, Vol.10, pp. 43-48 (2014) <http://dx.doi.org/10.2142/biophysics.10.43>.
- Nobuyuki Morimoto, Yu Sasaki, Kouki Mitsunushi, Evgeniya Korchagina, Tetsuichi Wazawa, Xing-Ping Qiu, Shin-ichiro M. Nomura, Makoto Suzuki, Françoise M. Winnik, "Temperature-responsive telechelic dipalmitoylglycerol poly(N-isopropylacrylamide) vesicles : real-time morphology observation in aqueous suspension and in the presence of giant liposomes", *Chem. Commun.*, 50, 8350-8352 (2014). DOI: 10.1039/C4CC03199G.

Recent Activities (hobbies, etc.): Too many interesting research topics bothers me. Hobby:Playing with daughter with Splatoon!