

Name: Taro Toyota

Expertise: Colloid and Interface Chemistry

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Reserch Theme in This Project:

Construction of amoeba-like and slime-like molecular aggregation

Main Research Results, Publications:

- (1) I. Hoshino, T. Maruyama, H. Fujito, Y. Tamura, A. Suganami, H. Hayashi, T. Toyota, Y. Akutsu, K. Murakami, Y. Isozaki, N. Akanuma, N. Takeshita, T. Toyozumi, A. Komatsu, H. Matsubara, “Detection of Peritoneal Dissemination with Near-infrared Fluorescence Laparoscopic Imaging Using a Liposomal Formulation of a Synthesized Indocyanine Green Liposomal Derivative”, *Anticancer Research*, 35, 1353–1359 (2015).
- (2) T. Maruyama, Y. Akutsu, Y. Tamura, A. Suganami, H. Fujito, T. Ouchi, N. Akanuma, Y. Isozaki, N. Takeshita, I. Hoshino, M. Uesato, T. Toyota, H. Hayashi, H. Matsubara, “Treatment of near-infrared photodynamic therapy using a liposomally formulated indocyanine green derivative for squamous cell carcinoma”, *PLOS ONE*, DOI:10.1371/journal.pone.0122849 (15 pages) (2015).
- (3) H. Ohno, T. Toyota, T. Nomoto, M. Fujinami, “Interfacial tension in adsorption of lysozyme onto a lipid monolayer formed at a water/chloroform interface”, *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, 480, 85–90 (2015).
- (4) H. Hayashi, T. Toyota, H. Hatayama, S. Goto, A. Oishi, T. Gao, L. B. Ee, T. Nomoto, M. Fujinami, H. Matsubara, “Development of a non-blurring, dual-imaging tissue marker for gastrointestinal tumor localization”, *Surgical Endoscopy*, 29, 1445–1451 (2015).
- (5) J. M. Castro, T. Toyota, H. Iwasaki, “Fat as Soft Architecture: The Spontaneous Transformation of Lipids into Organic Microstructures with Predefined Biophysical Properties”, *Recent Advances in Natural Computing*, 9, 113–122 (2015).

Recent Activities (hobbies, etc.): No swimming, no life.