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教 育 活 動

(主な担当科目)

2018年：生体物性工学、医用機械工学、応用数学、生化学

2017年：生体物性工学、医用機械工学、応用数学、生化学

研 究 活 動

(論文等)

1. K. Tanaka, S. Takeda, K. Mitsuoka, T. Oda, C. Kimura-Sakiyama, Y. Maéda, and A. Narita (2018) Structural basis for cofilin binding and actin filament disassembly, *Nature Communications* 9: 1860
2. T. Oda, T. Aihara, and K. Wakabayashi (2016) Early nucleation events for polymerization of actin, probed by time-resolved small-angle x-ray scattering. *Scientific Reports* 6: 34539
3. T. Matsuo, T. Arata, T. Oda, K. Nakajima, S. Ohira-Kawamura, T. Kikuchi, and S. Fujiwara (2016) Difference in the hydration water mobility around F-actin and myosin subfragment-1 studied by quasielastic neutron scattering. *Biochemistry and Biophysics Reports* 6: 220-225
4. S. Jiang, A. Narita, D. Popp, U. Ghoshdastider, L. J. Lee, R. Srinivasan, M. K. Balasubramanian, T. Oda, F. Koh, M. Larsson, and R. C. Robinson (2016) A novel actin filament from *Bacillus thuringiensis* forms nanotubules for plasmid DNA segregation. *Proc Natl Acad Sci USA* 113: E1200–E1205
5. T. Matsuo, S. Takeda, T. Oda, S. Fujiwara (2015) Structures of the Troponin Core Domain Containing the Cardiomyopathy-Causing Mutants Studied by Small-Angle X-ray Scattering *Biophysics and Physicobiology* 12: 145-158
6. T. Matsuo, T. Arata, T. Oda, K. Nakajima, S. Ohira- Kawamura, T. Kikuchi, S. Fujiwara (2015) Internal dynamics of F-actin and myosin subfragment-1 studied by quasielastic neutron scattering *BBRC*, 459: 493-497.
7. T. Matsuo, T. Arata, T. Oda, and S. Fujiwara (2013) Difference in Hydration Structures between F-actin and Myosin Subfragment-1 Detected by Small-Angle X-ray and Neutron Scattering *BIOPHYSICS*, 9:99-106.
8. T. Aihara and T. Oda (2013) Cooperative and Non-cooperative conformational changes of F-actin induced by cofilin. *BBRC*, 435: 229-233.
9. S. Fujiwara, M. Plazanet, and T. Oda (2013) Coupling of the hydration water dynamics and the internal dynamics of actin detected by quasielastic neutron scattering *BBRC*, 43: 542–546.



受け継がれる、凛とした、しなやかさ。

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