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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 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. T. Oda, S. Takeda, A. Narita, and Y. Maéda (2019) Structural polymorphism of actin <i>J Mol Biol (in press)</i> 2. I. Fujiwara, S. Takeda, T. Oda, H. Honda, A. Narita, Y. Maéda (2018) Polymerization and depolymerization of actin with nucleotide states at filament ends. <i>Biophys Rev</i> , 10:1513-1519 3. 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, <i>Nature Communications</i> 9: 1860 4. T. Oda, T. Aihara, and K. Wakabayashi (2016) Early nucleation events for polymerization of actin, probed by time-resolved small-angle x-ray scattering. <i>Scientific Reports</i> 6: 34539 5. 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. <i>Biochemistry and Biophysics Reports</i> 6: 220-225 6. 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 <i>Bacillus thuringiensis</i> forms nanotubules for plasmid DNA segregation. <i>Proc Natl Acad Sci USA</i> 113: E1200–E1205 7. 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 <i>Biophysics and Physicobiology</i> 12: 145-158 8. 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 <i>BBRC</i> , 459: 493-497. 9. 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 <i>BIOPHYSICS</i> , 9:99-106. 10. T. Aihara and T. Oda (2013) Cooperative and Non-cooperative conformational changes of F-actin induced by cofilin. <i>BBRC</i> , 435: 229-233. 11. 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 <i>BBRC</i> , 43: 542–546.



受け継がれる、凛とした、しなやかさ。

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