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【Speciality】 Single-molecule Biophysics

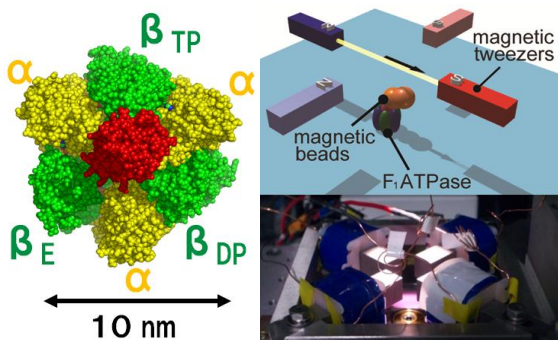
【Keywords】 Molecular motor, Optical microscopy, MEMS

【Research Subject】 Single-molecule FRET measurement of rotary motor protein dynamics in living cells

Research Group Activity

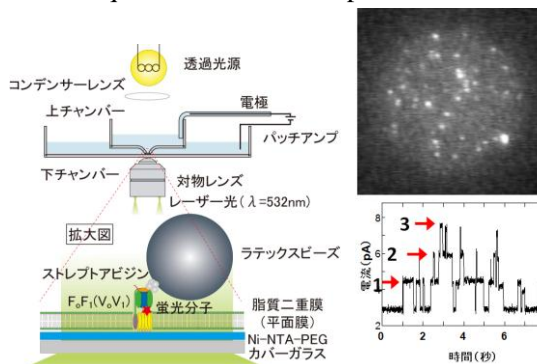
- Single-molecule measurement of molecular motors

Elucidation of molecular mechanism by single-molecule imaging and manipulation



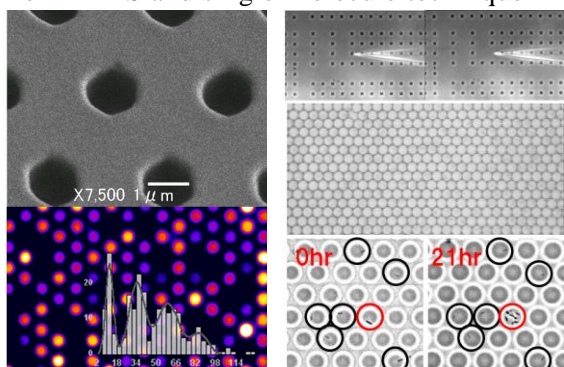
- Single-molecule measurement of membrane proteins

Development of novel single-molecule techniques for membrane protein



- Ultrasensitive microdevice for biological reaction

Development of microdevice by combination of MEMS and single-molecule technique



- Visualization of energy state of the cell

Development of fluorescent protein-based sensor

