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【Speciality】 Molecular Physiology and Biophysics

【 Keywords 】 Diffracted X-ray Tracking method,  
Single channel current recordings

【Research Subject】 Analysis of the single-molecular gating dynamics of ion channels with the Diffracted X-ray Tracking Method

## Research Group Activity

**Diffracted X-ray Tracking Method**  
Detecting gating motions of single ion channels

white X-ray, gold nanocrystal, KcsA channel, glass plate, diffraction spot

**Development of program for image analysis**  
Extraction and tracking of diffraction spots

**Development of measuring chambers with micro-fluid channel**

Active Cartridge, Shielding Plate for X-ray\*, Window for Observation, Adjustable Arm, Fixed Base, Flow Sensor

**Planer lipid bilayer method**  
Single channel current recordings