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【Speciality】 **Biophysics**

【Keywords】

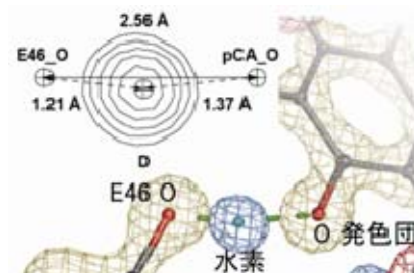
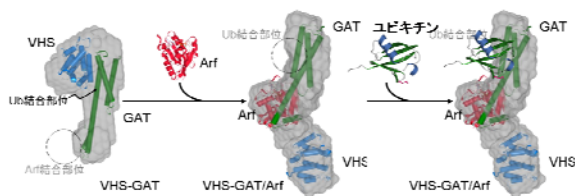
Neutron crystallography, Low barrier hydrogen bond

【Research Subject】

Physicochemical properties of Low barrier hydrogen bonds

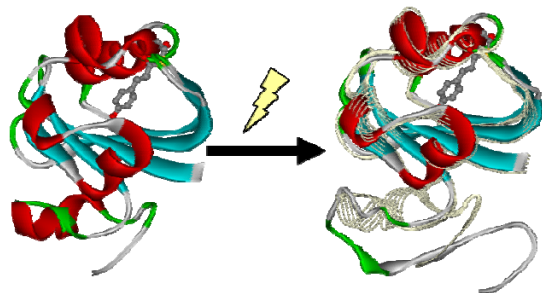
Research Group Activity

- Molecular basis of understanding dynamical behavior of proteins as an ensemble
- Direct observation of local reaction field involving H^+ in a protein.



Physicochemical properties of “**protein ensembles**”

- Observation of higher order structural change in a protein’s backbone during function expression.



Higher order structural change of a “**protein**”

“**Local chemical reaction**” within a protein

- Elucidation of mutual relationship among individual molecular events in each hierarchy.

