Biochemistry

Electron Transfer in Bacterial Reaction Centers with the Photoactive Bacteriopheophytin Replaced by a Bacteriochlorophyll through Coordinating Ligand Substitution

BEATTY LAB
Dept. of Microbiology & Immunology


This work shows that the volume of an amino acid side-chain may be more important than charge for modulating enzyme activity.

Journal of Physical Chemistry

Mutation-Induced Changes in the Protein Environment and Site Energies in the (M)L214G Mutant of the R. sphaeroides Reaction Center

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Dept. of Microbiology & Immunology


This work shows the existence of two populations with altered conformation of the same protein yielding modified activity.