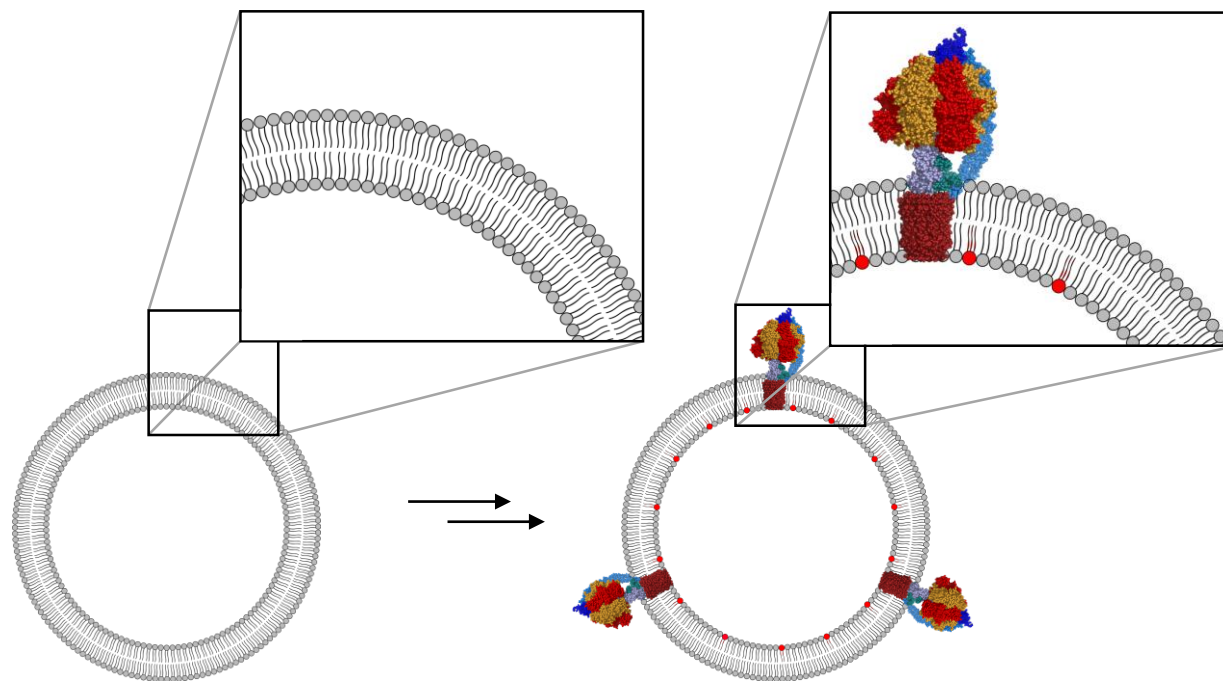
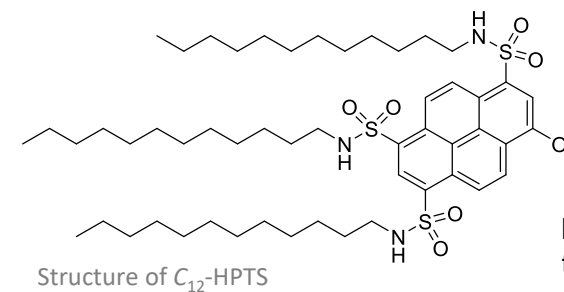
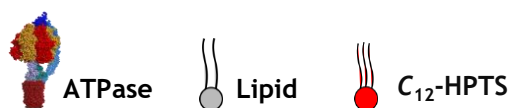


Interfacial protons vs. bulk protons: How proton localization alters ATP synthase activity

Reconstitution of TF₀F₁-ATP-synthase in large unilamellar vesicles which contain the photoacid C₁₂-HPTS



Reconstitution of large unilamellar vesicles with ATP synthase.

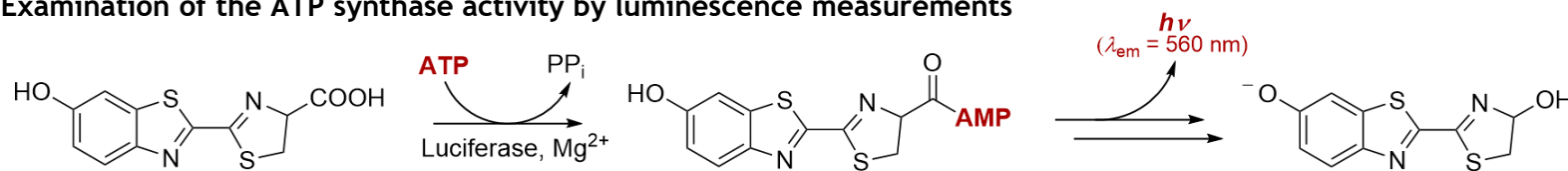


Photoacid: excited-state proton transfer induced by UV light excitation

Keywords of the topic:

- electrochemistry
- luminescence and fluorescence spectroscopy
- lipid vesicles
- proton pump
- supported membranes

Examination of the ATP synthase activity by luminescence measurements



Reaction sequence of the luciferase-assay.