

K. ISHII LAB.

[Functionalization of Molecules]



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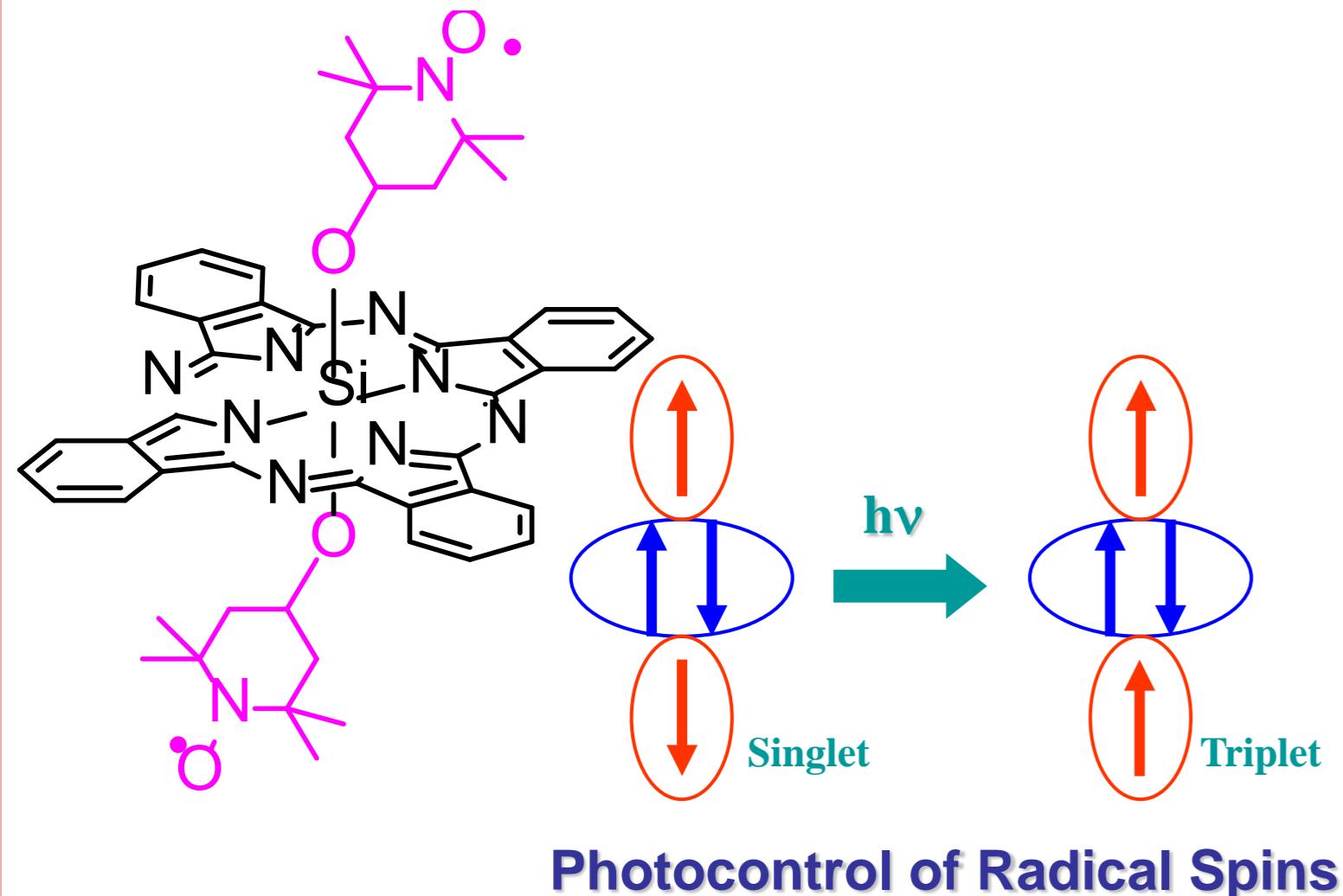
Functional Metal Complexes Chemistry

Functionalization of Molecules

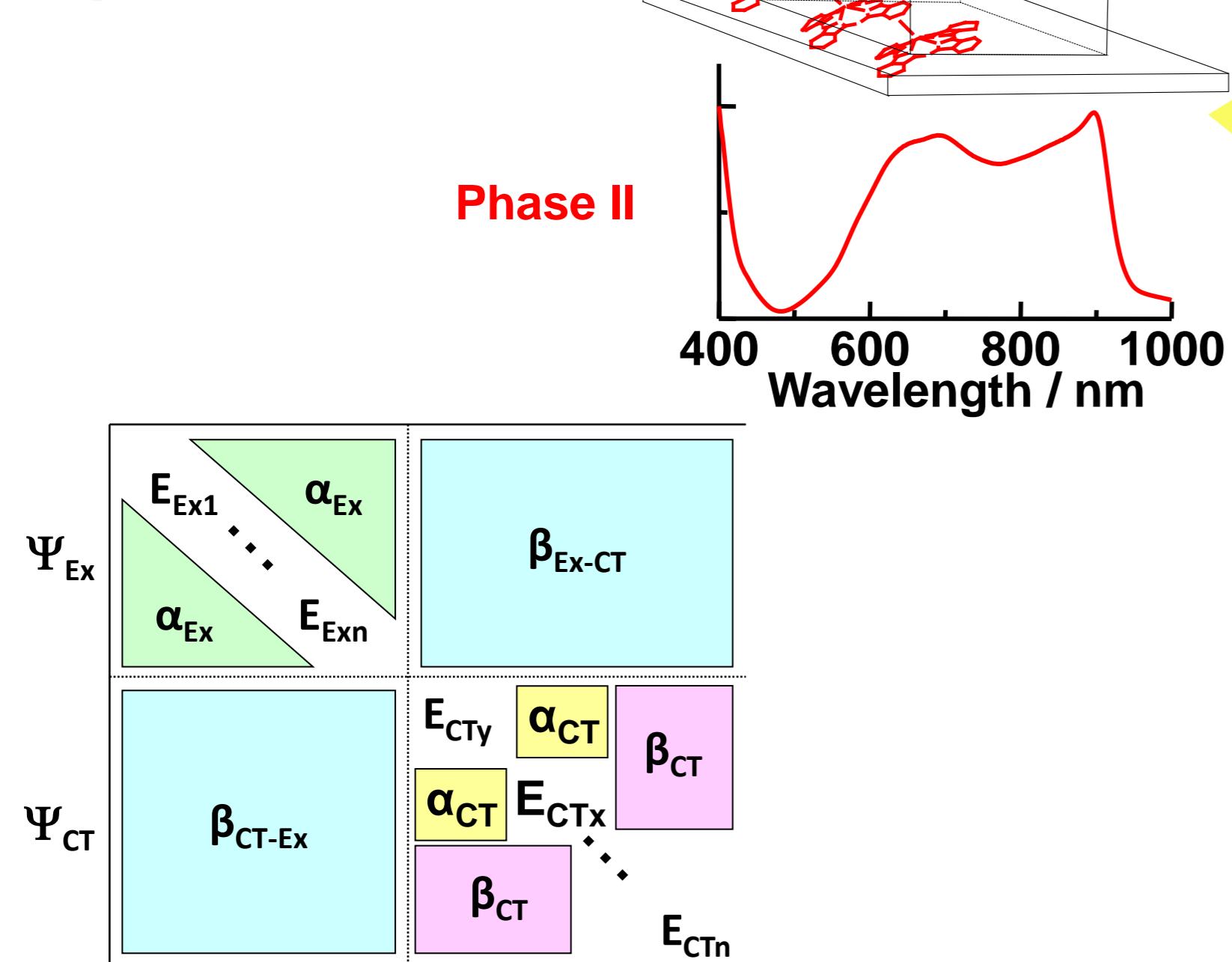
The discovery and elucidation of new electronic structures are important not only for pioneering frontier science but also for developing new functions. Since metal complexes have various electronic structures, coordination chemistry is promising for designing electronic properties. We aim to create novel functions of organic-inorganic hybrid compounds in terms of coordination chemistry, photochemistry, and spin chemistry

Chemistry of Photofunctional Molecules

Photocontrol of Magnetic Properties

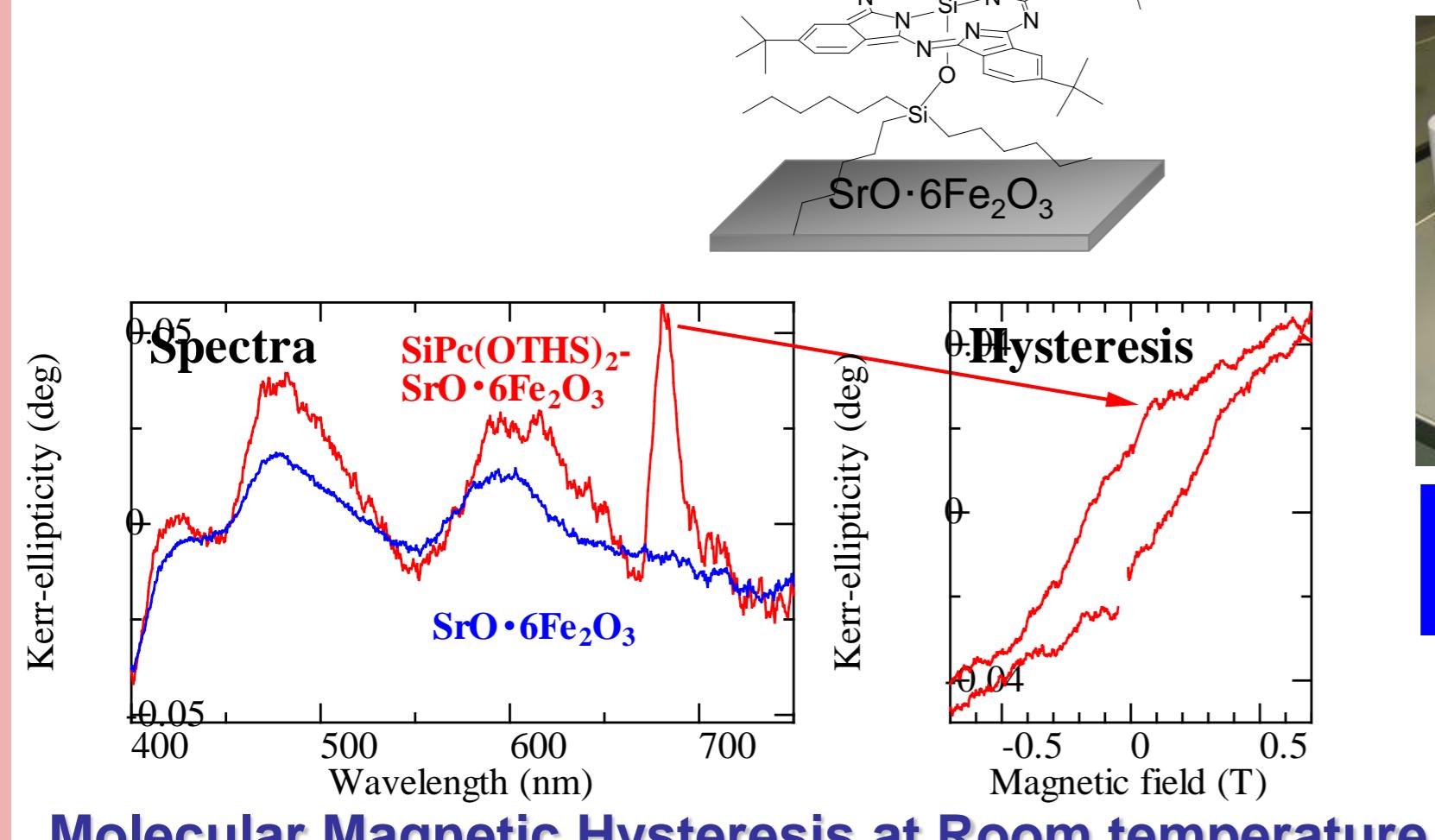


Theoretical Calculations of Organic Photoconductors

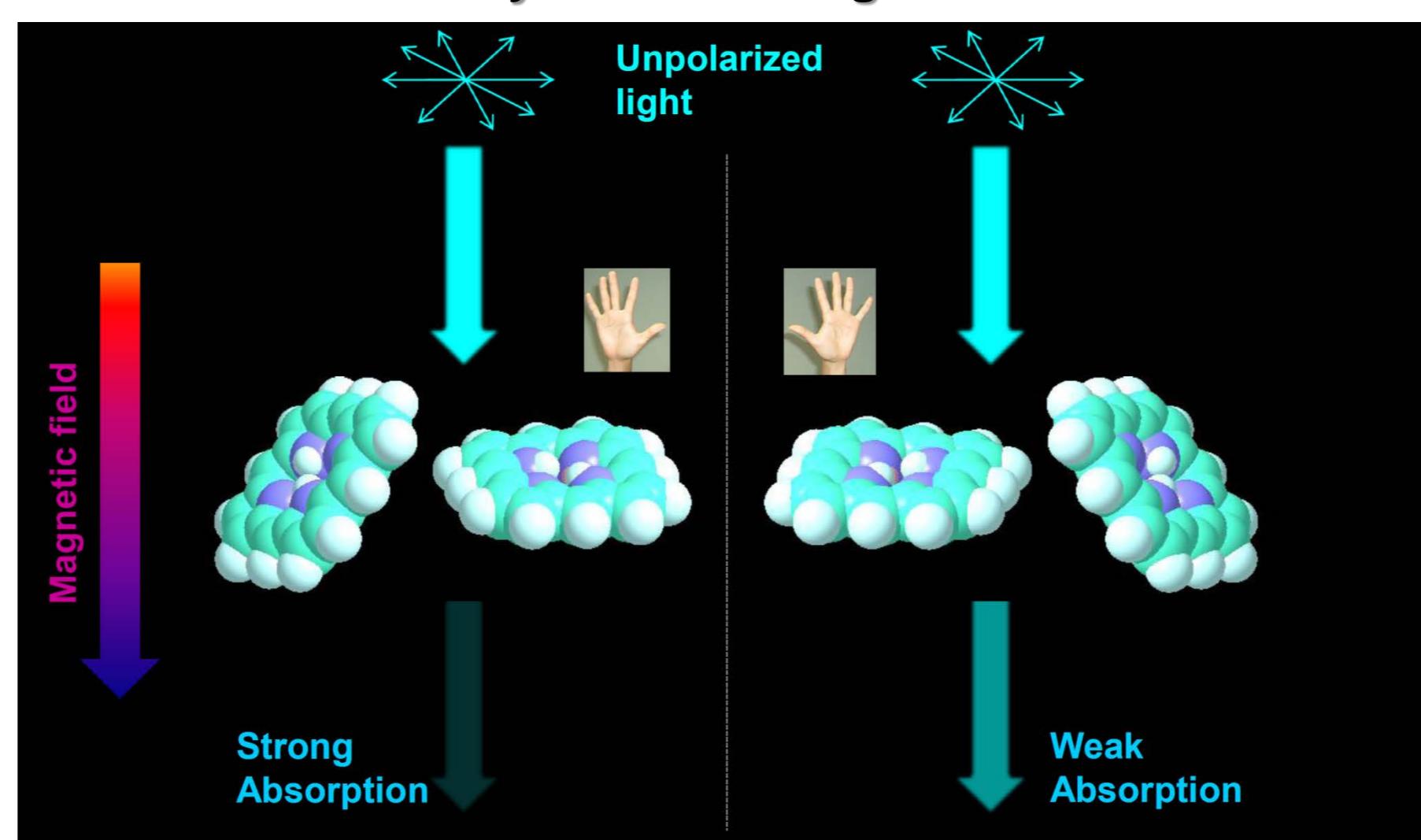


Theoretical Calculations of Molecular Crystals

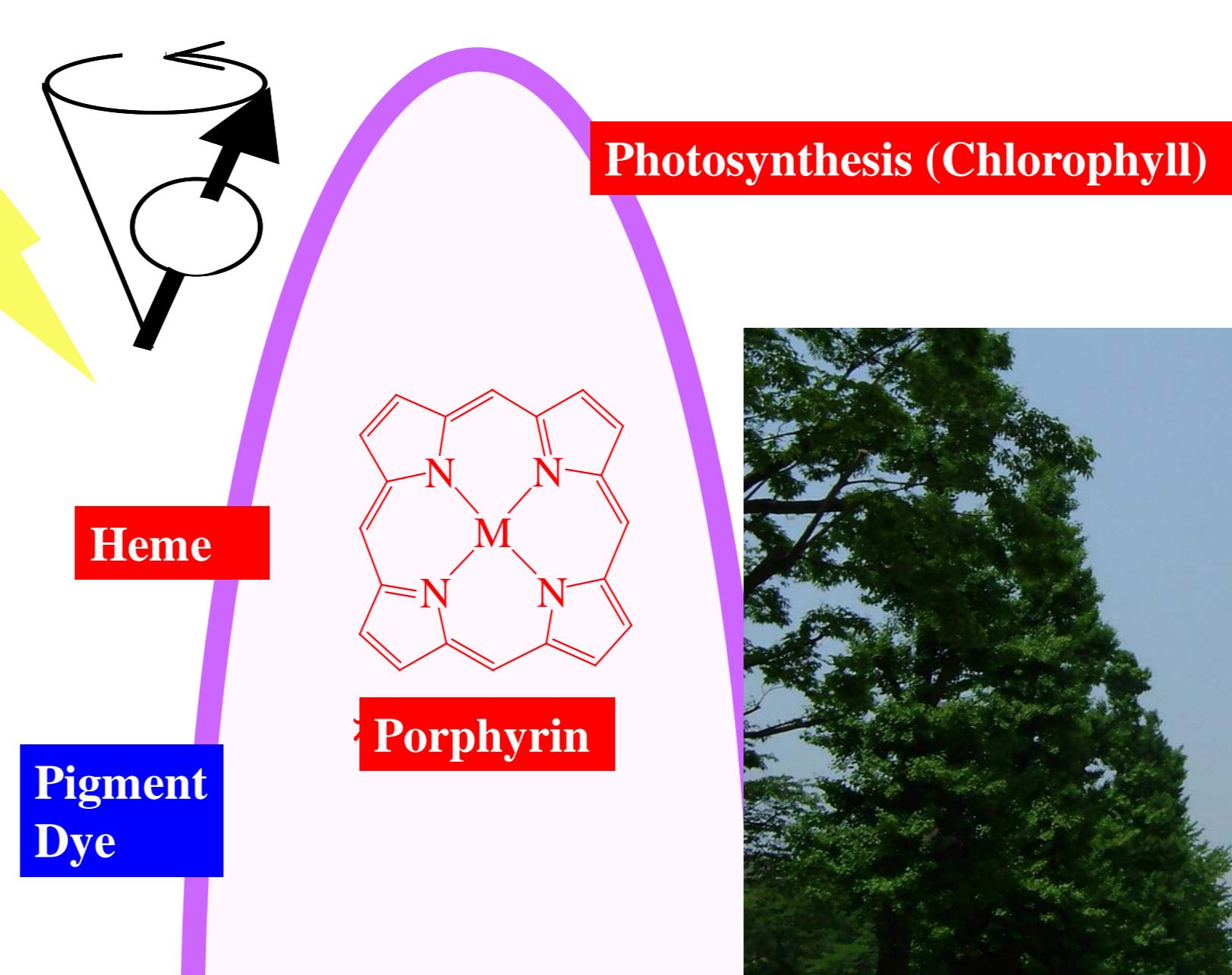
Molecular Magneto-Optical Materials



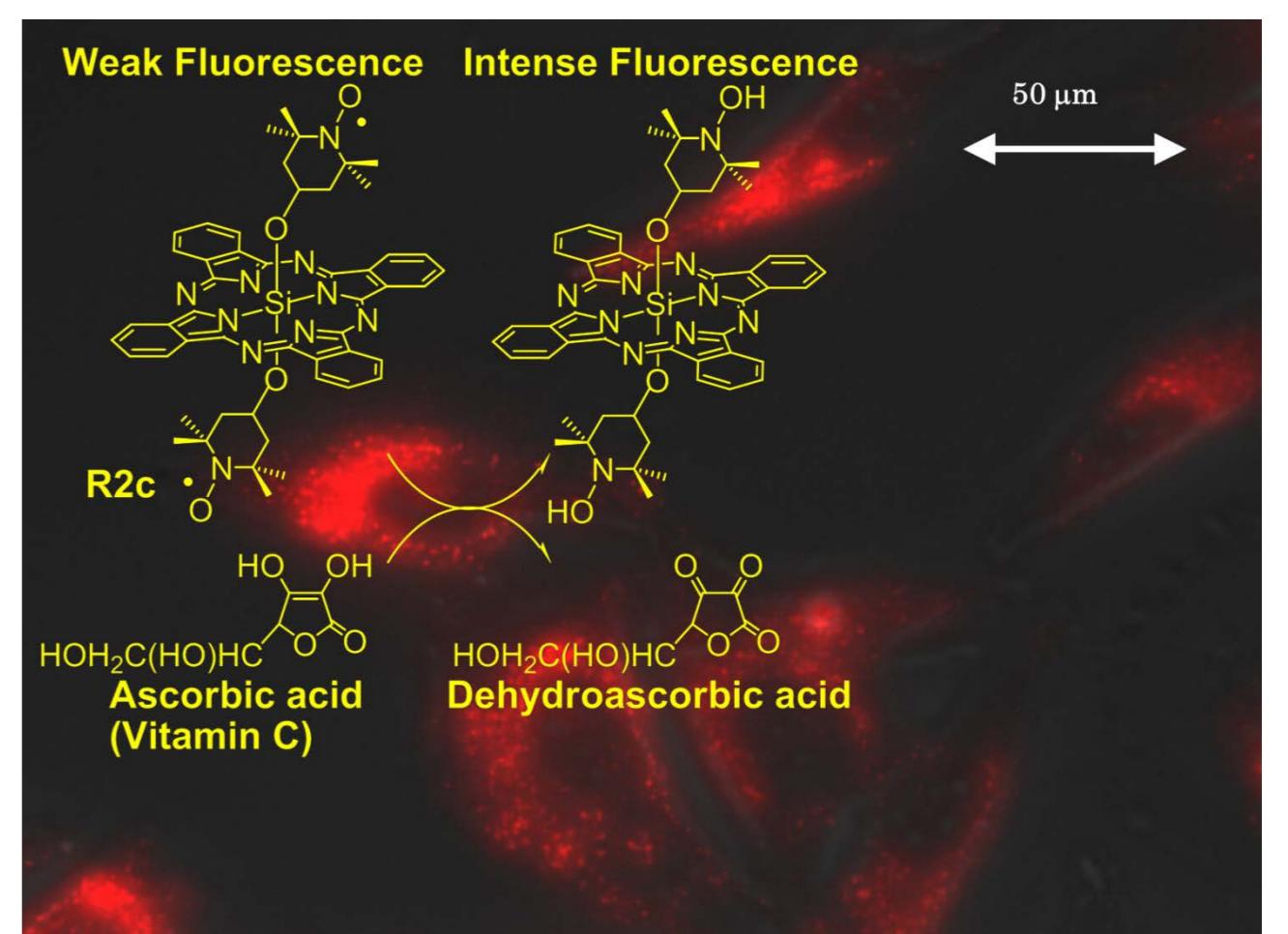
Homochirality of life : A magnetic answer



Magneto-Chiral Dichroism of Organic Compounds

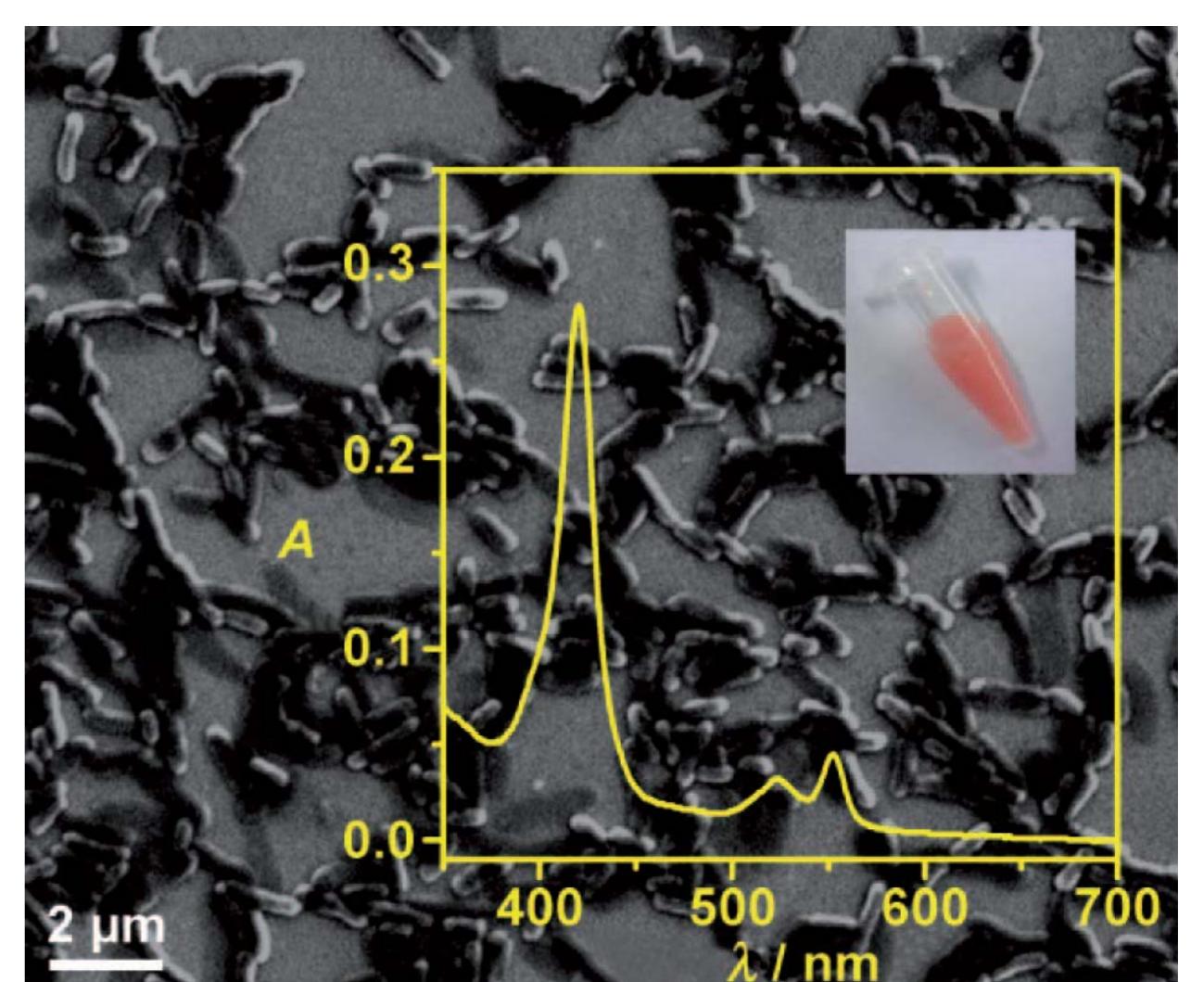


Fluorescence Probes



Fluorescence Bioimaging of Vitamin C in Cancer Cells

Spectroscopic Molecular Detections in Bacteria



Spectroscopic Observations of Cytochrome c in Bacteria

Photodynamic Cancer Therapy (PDT)

