

The Second Seminar on Pigment Systems and Reaction Centers of Photosynthetic Bacteria

(Jun. 10, 1994, NIBB, Okazaki)

Opening remarks	K. Matsuura (Tokyo Metropol. Univ.) (9:00-9:05)
Session I. Reaction center	Chairperson S. Itoh (NIBB)
M. Miller (Odense Univ.) Low-temperature spectroscopy of RC-FMO complex from <i>Chlorobium tepidum</i> .	(9:05 - 9:35)
N. Kusumoto (Waseda Univ.) Some properties of reaction center from the green sulfur bacterium <i>Chlorobium tepidum</i> .	(9:35 - 9:40)
H. Oh-oka (Osaka Univ.) Characterization of the <i>Chlorobium limicola</i> reaction center complex which consists of two subunits.	(9:40 - 9:50)
M. Yoshida (Tokyo Metropol. Univ.) Photo-oxidation of RC-bound low potential cytochrome c in <i>Rhodopseudomonas viridis</i> under physiological conditions.	(9:50 - 10:00)
J. Miyake (NAIR) Orientation of RCs for photo-electric responses.	(10:00 - 10:10)
J. Goc (NAIR) Reconstitution of RC and BChl for Artificial PRU.	(10:10 - 10:15)
Coffee break (10:15 - 10:40)	
Chairperson K. Shimada (Tokyo Metropol. Univ.)	
Y. Shimada (Tokyo Inst. Tech.) Regulation of the <i>puf</i> operon expression in <i>Rhodobacter sphaeroides</i> .	(10:40 - 10:55)
K. Inoue (Kanagawa Univ.) Redox responding sensory transduction components responsible for controlling photosystem in <i>Rhodobacter capsulatus</i> .	(10:55 - 11:10)
K. V.P. Nagashima (Tokyo Metropol. Univ.) Horizontal transfer of photosynthetic genes in purple bacteria.	(11:10 - 11:20)
General Discussion	(11:20 - 11:45)
Lunch (11:45 - 13:00)	

Session II. Pigment system

Chairperson T. Nozawa (Tohoku Univ.)

- R. P. Cox (Odense Univ.) (13:00 - 13:30)
Bacteriochlorophyll *c* homologs in *Chloroflexus aurantiacus*: Distribution and possible function.
- K. Uehara (Osaka Prefecture Univ.) (13:30 - 13:45)
Formation and photoenergy transfer of higher aggregates of bacteriochlorophyll *c* in the presence of carotenoids.
- K. Matsuura (Tokyo Metropol. Univ.) (13:45 - 13:55)
Spectral forms of bacteriochlorophyll *c* in chlorosomes and artificial pigment-lipid aggregates.
- Z.-Y. Wang (Tohoku Univ.) (13:55 - 14:15)
Solid state high resolution NMR study on the structure of chlorosomes and bacteriochlorophyll *c* aggregates.
- Y. Koyama (Kwansei Gakuin Univ.) (14:15 - 14:30)
Transient Raman and absorption spectroscopy of BChl *a* : solvent effects.
- Coffee break (14:30 - 14:50)
- Chairperson Y. Koyama (Kwansei Gakuin Univ.)
- M. Kobayashi (Tohoku Univ.) (14:50 - 15:10)
Interaction between photosynthetic pigments analyzed by absorption and magnetic circular dichroism spectra of reaction center, antenna pigment and pigment aggregates.
- K. Shimada (Tokyo Metropol. Univ.) (15:10 - 15:20)
Reconstitution of carotenoids in LH1 complex of purple bacteria.
- K. Iida (Nagoya Inst. Tech.) (15:20 - 15:30)
Reconstitution of polypeptides-bacteriochlorophyll (LH-Bchl *a*) in the light-harvesting complex of photosynthetic bacteria.
- S. Takaichi (Nippon Medical School) (15:30 - 15:45)
Novel carotenoids from photosynthetic bacteria.
- M. Mimuro (NIBB) (15:45 - 15:55)
Physical basis for function of carotenoids in photosynthesis.
- General discussion (15:55 - 16:20)
- Closing remarks M. Mimuro (NIBB)