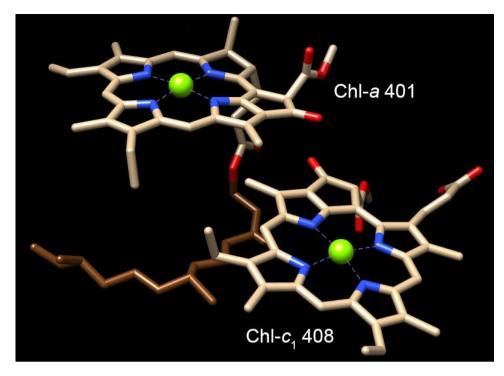
Electronic supplementary information for

Intramolecular interaction of synthetic chlorophyll

heterodyads with different π -skeletons

Hitoshi Tamiaki,* Kazuhiro Fukai and Soichi Nakamura

Graduate School of Life Sciences, Ritsumeikan University, Kusatsu, Shiga 525-8577, Japan. E-mail: tamiaki@fc.ritsumei.ac.jp



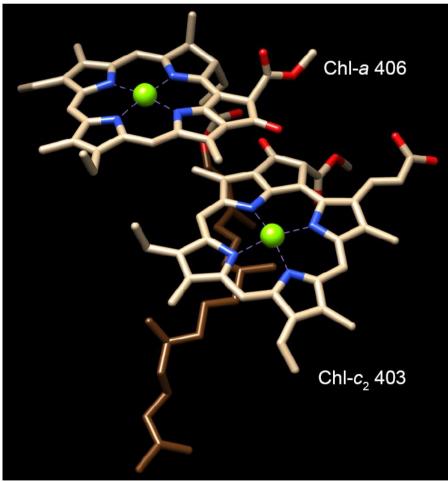


Fig. S1 Interaction of Chl-*a* 401 with Chl- c_1 408 (upper) and Chl-*a* 406 with Chl- c_2 403 (upper) in FCP based on PDB #6A2W.

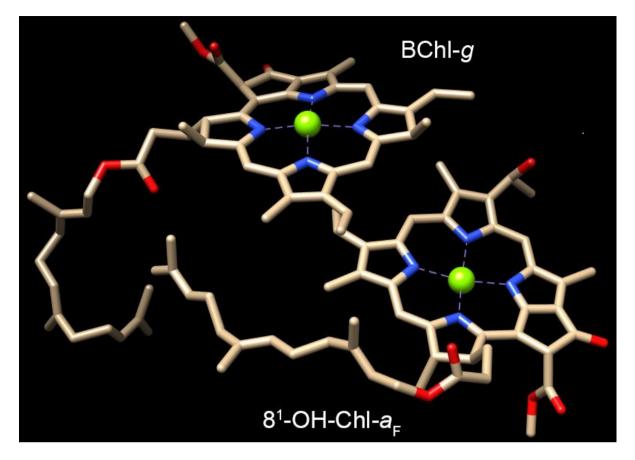


Fig. S2 Interaction of BChl-g with 8^1 -OH-Chl- a_F in heliobacterial RC based on PDB #5V8K.

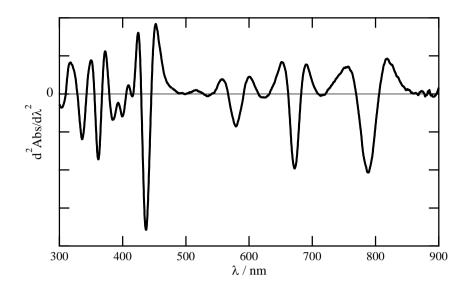


Fig. S3 Second derivative in electronic absorption spectrum of ZnB–ZnC (5 μ M) in 1%(v/v) methanol and benzene.

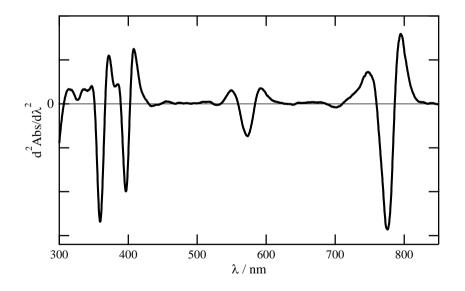


Fig. S4 Second derivative in electronic absorption spectrum of ZnB (5 μ M) in 1%(v/v) methanol and benzene.

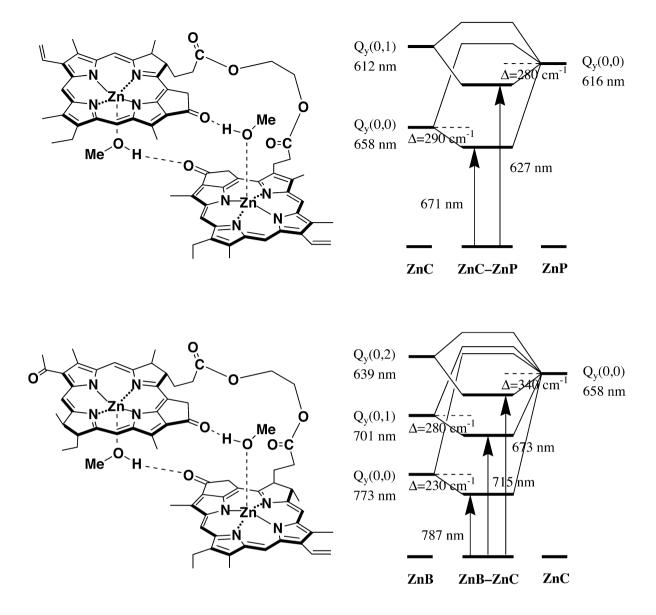
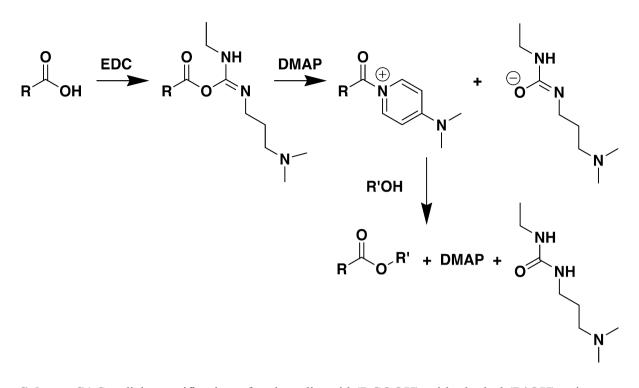


Fig. S5 Proposed conformers of methanol-locked heterodyads (left) and the estimated energy levels of their excitonically coupled Q_y bands (right): **ZnC–ZnP**·2MeOH (upper) and **ZnB–ZnC**·2MeOH (lower).



Scheme S1 Steglich esterification of carboxylic acid (RCOOH) with alcohol (R'OH) using EDC and DMAP [step (vii) in Fig. 5].