
Seminars 2015-16

Learning design principles for efficient and robust light harvesting from purple bacteria



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Photosynthetic organisms can achieve near perfect quantum efficiency under optimal conditions. This is remarkable considering that electronic excitations should travel about 100 nm or larger distances through rugged, fragile, and dynamic membrane protein environments, which are realized by a wide range of structural motifs and arrangements of pigment-protein complexes in various photosynthetic organisms. However, key design principles enabling their superb light harvesting capability are not clearly understood at present. This talk reports results of comprehensive series of classical simulations and quantum calculations investigating these issues.

See full abstract: laufercenter.stonybrook.edu/

Friday January 29, 2016

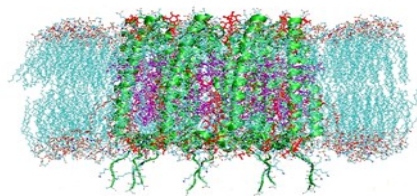
2:30 PM

Laufer Center Lecture Hall 101

Host: Jin Wang

Refreshments following seminar

Laufer Hub 110



LH2 of purple bacteria in membrane