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**Excitation Dynamics in Photosynthetic Light Harvesting:  
From Individual Complexes to the Grana Membrane**

Light harvesting in photosynthesis is a multiscale problem occurring on length scales from Angstroms to millimetres and spanning a time range of fifteen orders of magnitude. Functional understanding requires coarse grained models firmly based on accurate microscopic descriptions combined with structural information on a range of length scales. In this talk I will describe some recent efforts to construct such a model.