Connecting dots between natural and artificial photosynthesis : magnetic resonance studies on light harvesting and the water oxidation reaction centre

Sunku, K.

Propositions

Belonging to the thesis entitled

"Connecting Dots between Natural and Artificial Photosynthesis"

1. Selective isotope labeling of amino acids can be exploited to unravel the photo protection mechanism of major LHC II (Chapter 3)
2. Good perseverance and a steady pair of hands are useful in preparing sucrose gradient centrifugation (Chapter 3)
3. It requires more than arduous work to generate workable equipment for RPQ-EPR in Photosystem II studies (Chapter 2)
4. How photosystem II selectively stores energy along a +1 charged reaction coordinate to oxidize water while hopping over to a neutral reaction coordinate, is best explained with a square diagram. (Chapter 2)
5. Solid State NMR provides crucial information for resolving structures of artificial light harvesters. (Chapter 4).
6. Decentralized plug and play systems should be the goals for research in Artificial Photosynthesis.
7. In present day political scenarios sustainability and climate change are the two most important words.
8. In the context of annual processes, teaching and farming are similar. Both start with preparation and end with results.
9. Financial literacy is as important as scientific literacy for the wellbeing of a scientist.
10. With multi-cultural, multi-lingual, multi-traditional, multi-ethnics and chaotics, India shows the world the way to peaceful living.