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The heart of oxygenic photosynthesis illuminated

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Propositions

belonging to the thesis
“The Heart of Oxygenic Photosynthesis illuminated”

1. The solid-state photo-CIDNP is conserved across photosynthetic systems.

This thesis Chapter 2

G. J. Janssen et al. (2010) “Observation of the solid-state photo-CIDNP effect in whole cells of cyanobacteria Synechocystis.” Photosynthesis Research 104, 275-282.

J. Matysik et al. “The solid-state photo-CIDNP effect.” Photosynthetic Research (2009) DOI: 10.1007/s11120-009-9403-9.

2. Photosystem I displays a large flexibility in terms of its electronic architecture and functionality while its electronic ground states are remarkably conserved.

This thesis Chapter 3 and 6

G. J. Janssen et al. (2012) “¹⁵N Photo-CIDNP MAS NMR To Reveal Functional Heterogeneity in Electron Donor of Different Plant Organisms” Applied Magnetic Resonance 42,57-67.

3. The electronic architecture and functionality of Photosystem II is highly conserved among different plant species and experimental conditions.

This thesis Chapter 4

4. Duckweed is a very suitable species for the preparation and study of selective isotope labeled plant photosystems.

This thesis Chapters 4, 5 and 6

5. Liberation does not rely in the achievement of permanent happiness but in releasing the pursuit for happiness.

F. Lewis, (2000) “Rumi: Past and Present, East and West — The Life, Teachings, and Poetry of Jalal al-Din Rumi,” Oneworld Publications, Chapter 7.

R. R. Blakney (1988) “The Sayings of Lao Tzu: A New Translation of the Tao Te Ching” Confucius Publishing Co.

6. Communicating scientific discoveries mainly through research papers in the current format is outdated.

7. Upon the first observation of a phenomenon a scientist does not discover that what was already there, but creates a defined form for what wasn't yet defined before.

L. Bombelli “Wave-Function Collapse in Quantum Mechanics”. Topics in Theoretical Physics. (2010), 10-13.

8. The success of one's work does not depend on the quantity of time invested but on the quality of energy, focus and insight made available.

9. When we start to teach our children that making mistakes is OK and that failure is often an indicator of ambition, mankind's true creative and innovative power will be unplugged.

10. Every observation, scientific or mundane, is subjective, even before interpretation occurs.

P. Sonenthal (2005) “The role of the observer in interpretations of Quantum Mechanics” Williamstown, <http://library.williams.edu/theses/pdf.php?id=85>

J. Feinstein et al. “From Sensory Processes to Conscious Perception.” Consciousness and Cognition 13 (2004): 323-335, <http://www.elsevier.com/locate/concog>.

11. Based on equal facts opposite conclusions can be drawn.