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In vitro investigation of the photoprotection mechanism of Light Harvesting Complex II

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PROPOSITIONS

belonging to the thesis entitled:

In vitro investigation of the photoprotection mechanism of Light Harvesting Complex II

1. **Selective protein and ligand labelling can be exploited to unravel the complexity of LHCII using solid state NMR.**
(Chapter 4-5)
2. **The size of the nanodisc has an important influence on the protein response for the function.**
(Chapter 2)
3. **The presence of both native pigments and lipids are crucial for the refolding of rLhcb1.**
(Chapter 4)
4. **The reconstitution of proteins using preformed liposomes is the preferred method of choice for their biophysical characterization.**
(Chapter 2-3)
5. **Mimicking a particular LHCII-PsbS protein mechanism *in vitro*, may turn to be a Holi Grail ghost, which will never be found.**
6. **A steady hand and patience are the best friends of the sucrose gradient centrifugation.**
7. **Being loyal to the same brand of fresh spinach is a *conditio sine qua non* in photosynthetic antennae research.**
8. **Modern solar panel technology will be able to absolve the primary reason for which they are used, if the human being wants it.**
9. **Scientific knowledge can be gained, simply, from sharing a nice meal with one's friends and colleagues.**
(*The power of food: mediating social relationships in the care of chronically ill elderly people in urban Indonesia. Peter van Eeuwijk*)
10. **Combining right ideas together is not synonymous with quality.**
11. **Gossip is the driving force of society.**
(*Grooming, Gossip, and the Evolution of Language*, University of Oxford professor Robin Dunbar)