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Bridging the gap between natural & artificial light-harvesting : a structure-function investigation with MAS NMR

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Propositions

belonging to the thesis

“Bridging the gap between Natural & Artificial Light-Harvesting”

1. The supramolecular arrangements with stacks running parallel or perpendicular to the tube axis of chlorosomes allows for similar $\text{O—H}\cdots\text{O}=\text{C}$ functional pathways.
This thesis, Chapter 4.
2. The proton chemical shifts of moderately sized molecules of low symmetry can be related to the pattern of their stacking.
This thesis, Chapter 6.
3. The piggy back dimer model proposed by Egawa and co-workers is doubtful for chlorosomes from *Chlorobium tepidum*.
This thesis, Chapter 4.
Egawa *et al.* **(2007)** *Proc. Natl. Acad. Sci. USA* 104: 790-795.
4. The resolution of both spectroscopic and imaging data collected from mutant chlorosomes vis-à-vis the corresponding WT ones for *Chlorobium tepidum* contrasts with their light-harvesting capacity.
This thesis, Chapters 4 and 5.
Gomez *et al.* **(2007)** *J. Bacteriol.* 189: 6176-6184.
5. Understanding the runners high can lead to deeper psychological understanding.
Boecker *et al.* **(2008)** *Cerebral Cortex* 18:2523-2531.
6. Lipid rafts are an important point of contact between Physical Chemistry and Cell Biology.

7. NMR at high magnetic fields is good exercise.
8. Vegetarians are not green by definition.
9. One of the first things a foreigner learns in the Netherlands is to put spontaneous in an agenda so that it gets proper consideration.
10. To be propositioned does not always imply a good proposition.
11. The libido of graduate students from Leiden must be higher than normal to survive the Boerhaavelaan.

Swapna Ganapathy
Leiden the 26th of November 2008