The heart of oxygenic photosynthesis illuminated

Janssen, G.J.

LIST OF PUBLICATIONS

A. Alia, P.K. Wawrzyniak, G.J. Janssen, F. Buda, J. Matysik. and H.J.M. de Groot. **(2009)** "Differential charge polarization of axial Histidines in Bacterial Reaction Centers Balances the Asymmetry of the Special Pair." *J. Am. Chem. Soc.*, 131(28): 9626-7 http://pubs.acs.org/doi/abs/10.1021/ja9028507

G. J. Janssen, E. Daviso, M. van Son, J. Matysik, and A. Alia **(2010)**. "Observation of the solid-state photo-CIDNP effect in entire cells of cyanobacteria *Synechocystis* sp. PCC-6803." *Photosynth. Res., 104*, 275-282. http://www.springerlink.com/content/b068n17um89p1m0k/

E. Daviso, G.J. Janssen, A. Alia, G. Jeschke, J. Matysik, and M. Tessari **(2011)**. "A 10 000-fold Nuclear Hyperpolarization of a Membrane Protein in the Liquid Phase via Solid-State Mechanism." *J. Am. Chem. Soc., 133*: 16754-16757. http://pubs.acs.org/doi/abs/10.1021/ja206689t?mi=sgirgo&af=R&pageSize=20&searchText=Proton+exchange+membrane

G. J. Janssen, E. Roy, J. Matysik, and A. Alia **(2012)**. "^{15}N Photo-CIDNP MAS NMR To Reveal Functional Heterogeneity in Electron Donor of Different Plant Organisms." *App. Mag. Res., 42*: 57-67. http://www.springerlink.com/content/k1kr74n933756h4v/

G.J. Janssen, J. Matysik, H.J.M. de Groot and A. Alia. "Photochemically induced dynamic nuclear polarization NMR on photosystem II obtained directly from plants reveals remarkable similarity and robustness of the radical pair across species" *Manuscript in preparation*

G.J. Janssen, K.B. Gupta, B. Bode, J. Matysik, H.J.M. de Groot and A. Alia. "Time-resolved photo-CIDNP MAS NMR on PSI and PSII from plants." *Manuscript in preparation*

CURRICULUM VITAE

On the 27th of April 1984 I was born in London, Great Britain after which my family soon moved to Amsterdam. I attended the anthroposophic Geert Grote primary School and the Sint Nicolaas Lyceum in Amsterdam. In 2002 after obtaining my gymnasium diploma I moved to Leiden to study Chemistry at Leiden University. In 2005 I took my bachelor's degree and started the master Physical and Theoretical Chemistry. In the same year Prof. J. van den Broek started the first year of the Science Communication track, which I followed and which greatly widened my horizon. During my bachelor I did a laboratory project in genetics, studying the REV1 domain of the BRCT protein. My Master thesis was based on a computational study using quantum chemical calculations to investigate the anti cancer drug Bleomycin. In addition I completed two external projects, the first in Teylers museum in Haarlem titled "Science communication in the 19th century" and the second at Williams College in the United States where I investigated the self-organizing power of sugar polymers in a research aimed to develop drug delivery vehicles. In my extracurricular space I completed Italian courses at the Leiden University Language School up to level 5. In the summer of 2007 Dr. J. Matysik gave me the exceptional opportunity to attend the Spin Chemistry meeting in Venice as a master student. In September 2007, I started my PhD under the supervision of Dr. A. Alia in the Solid State NMR group at Leiden University led by Prof. dr. H.J.M. de Groot. During my PhD time, I attended the Advanced NMR course (2007) held at Bruker in Kahrlsuhe, and the theoretical "Solid-State NMR School" (2007) in Denmark. I had the opportunity to present my PhD work through poster presentations at various international conferences. These include the 4th EUROMAR meeting in Saint Petersburg, Russia (2008), the 43rd Meeting of the Dutch NMR-DG in Eindhoven, the Netherlands (2008), the NWO Spectroscopy and Theory meeting in Lunteren, the Netherlands (2009), the 44th meeting of the Dutch NMR-DG in Leiden, the Netherlands (2009), the NWO Spectroscopy and Theory in Veldhoven, the Netherlands (2010), the Discussion Meeting and Joint Benelux/German MR Conference in Münster, Germany (2010), the 6th EUROMAR meeting in Florence, Italy (2010) and the Spin Chemistry Meeting 2011 in Noordwijk, the Netherlands. From April 2012 to January 2013, while completing this thesis, I have been working as consultant at People in Science; an agency specialized in recruitment of science professionals. In Feburary 2013 I have started as Director Business Development at Crystallics; a company specialized in solid state drug research services.