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Linking the gene regulatory network with the functional physical structure of whole-genome engineered Arabidopsis mutants : an HR-MAS NMR-based metabolomics approach

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Citation

Augustijn, D. (2018, December 4). *Linking the gene regulatory network with the functional physical structure of whole-genome engineered Arabidopsis mutants : an HR-MAS NMR-based metabolomics approach*. Retrieved from <https://hdl.handle.net/1887/67093>

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Issue Date: 2018-12-04

Curriculum vitae

I was born the 2nd of January 1991 in Amsterdam. I did my secondary education at the Griffland College in Soest including biology, chemistry, physics, mathematics and informatics. In 2009, I started the bachelor Life Science & Technology at Leiden University and Delft University of Technology. During my bachelor thesis I came into contact with solid-state NMR for the first time, using it to study metabolic changes in the brain of an Alzheimer's disease mouse model under the supervision of Prof. dr. A. Alia. I discovered during this time, that I really love to do research so I decided to start the Research & Development master of Life Science & Technology at Leiden University in 2012. During my master's degree, I carried out two master research projects. The first one was at the Biophysical Structural Chemistry group of Leiden University under the supervision of Dr. N.S. Pannu working on X-ray crystallography. For my second master's thesis, I went to the European Bioinformatics Institute in Cambridge (UK). During this project, I worked on the transcriptomics data of T-helper cells in different stages of the cell cycle using bio-informatics tools under the supervision of Dr. S. Teichmann. I really like to combination of experimental work and bioinformatics.

This combination is what I found in my PhD research in the solid-state NMR group, which I started in Augustus 2014 under the supervision of Prof. dr. A. Alia and Prof. dr. H.J.M. de Groot on the FOM (now NWO-I) project "High-resolution solid-state NMR for understanding mechanism of high photosynthetic efficiency in engineered plants". During my PhD, I had the opportunity to present my work as posters at the BioSolar cell meeting (2015), Biophysics@FOM (2015), NMR discussion meeting (2015, 2016), MetaboMeeting (2015, 2017) and the Reedijk Symposium (2017). For my poster at the NMR discussion meeting in 2015, I won the 3rd poster prize. Also, my poster at the MetaboMeeting 2017 was awarded a poster prize. I was also invited to present my work in an oral presentation at the BioSolar Cell meeting in 2015 about "Metabolic profiling of intact *Arabidopsis thaliana* leaves using ^1H high-resolution magic angle spinning NMR".