Cover Page



Universiteit Leiden



The handle <u>http://hdl.handle.net/1887/35931</u> holds various files of this Leiden University dissertation

Author: Deventer, Sjoerd van Title: Tracking the big ones : novel dynamics of organelles and macromolecular complexes during cell division and aging Issue Date: 2015-10-21

Curriculum Vitae

Sjoerd van Deventer was born on the 25th of September, 1984, in Apeldoorn. There he enjoyed his secondary school at the Veluws College and passed his final VWO exams in 2003. In the same year he moved to Wageningen to start his study Molecular Sciences at the Wageningen University. After receiving his Bachelor's degree in 2007, with a minor in Biological Chemistry, he continued pursuing this specialization in his Master study. In the first of three Master internships he studied the arms race between RNA viruses and plants in the research group of Prof. dr. Rob Goldbach at the Wageningen University. In his second internship he tried to find genes involved in proteasome dynamics in budding yeast. The research was performed under supervision of dr. Victoria Menendez-Benito in the group of Prof. dr. Jacques Neefjes at the Netherlands Cancer Institute in Amsterdam. After studying the proteasome he decided to study another aspect of protein quality control in his last internship; chaperones. He studied the role of small heatshock proteins in oxidative stress in the lab of dr. Wilbert Boelens at the NCMLS in Nijmegen.

After receiving his Master's degree in 2009, Sjoerd returned to the Netherlands Cancer Institute in Amsterdam to further pursue the research of his internship as a PhD student. In this research he combined the cell biological expertise of the research group of his promotor Prof. dr. Jacques Neefjes with the budding yeast expertise of the research group of dr. Fred van Leeuwen. The results of this research can be found in this Thesis.

List of Publications

N-terminal acetylation and replicative age affect proteasome localization and fitness during aging

S.J. van Deventer, V. Menendez-Benito, F. van Leeuwen and J. Neefjes Journal of Cell Science, 128(1): 109-117, January 2015

Recombination-Induced Tag Exchange (RITE) Cassette Series to Monitor Protein Dynamics in Saccharomyces cerevisiae M. Terweij, T. van Welsem, **S.J. van Deventer**, K.F. Verzijlbergen, V. Menendez-Benito, D. Antoso, P. San-Segundo, J. Neefjes and F. van Leeuwen

G3, 3(8) 1261-1272, August 2013

Spatiotemporal analysis of organelle and macromolecular complex inheritance V. Menendez-Benito, **S. J. van Deventer**, V. Jimenez-Garcia, M. Roy-Luzarraga, F. van Leeuwen and J. Neefjes PNAS, 110(1): 175-180, January 2013

The Immunoproteasome Cleans up after Inflammation (Preview) **S.J. van Deventer** and J. Neefjes Cell, 142(4): 517-8, August 2010

Recombination-Induced Tag Exchange to track old and new proteins K.F. Verzijlbergen, V. Menendez-Benito, T. van Welsum, **S.J. van Deventer**, D.L. Lindstrom, H. Ovaa, J. Neefjes, D.E. Gottschling and F. van Leeuwen PNAS, 107(1): 64-68, Jan 2010

Two Dot1 isoforms in Saccharomyces cerevisiae as a result of leaky scanning by the ribosome F. Frederiks, G.J. Heynen, **S.J. van Deventer**, H. Janssen and F. Van Leeuwen Nucleic Acids Research, 37(21): 7047-58, November 2009

Acknowledgements

PhD research is a training to become an independent scientist. During my scientific training I was lucky to have three exquisite supervisors that I would like to thank here at the end of my Thesis.

First of all, many thanks to my promotor Prof. dr. Jacques Neefjes for hiring me and supervising my PhD. I admire his enthusiasm, original ideas and ability to combine different research areas. I would like to thank him for many useful discussions and his assistance in the writing about and framing of my research.

Next, I would like to thank my co-promotor dr. Fred van Leeuwen for the fruitful collaboration with his research group. I like his structured research approach and ability to monitor both the details and the overview. I would like to thank him for the nice collaboration and his positive-critical feedback on many occasions.

Also, I would like to thank dr. Victoria Menendez-Benito for the practical training and feedback during the first part of my PhD and for being part of my Thesis committee. I really admire her analytical mind as well as her cheerfulness and strong motivation during the harder times of our research. Many thanks for the nice time together, both inside and outside the lab.

Besides my supervisors I would like to thank all members of the Neefjes, van Leeuwen and Rowland groups for useful work discussions, plenty of reagents, and a really nice working atmosphere. Also many thanks for the support provided by the people of the Microarray-, Digital Microscopy- and Flow Cytometry facilities.

Finally, I would like to thank my family, friends and colleagues for their moral support, listening ear and the nice time we had.