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Parallel evolution in an invasive plant species : evolutionary changes in allocation to growth, defense, competitive ability and regrowth of invasive *Jacobaea vulgaris*

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Citation

Lin, T. (2015, November 17). *Parallel evolution in an invasive plant species : evolutionary changes in allocation to growth, defense, competitive ability and regrowth of invasive *Jacobaea vulgaris**. Retrieved from <https://hdl.handle.net/1887/36318>

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Issue Date: 2015-11-17

Acknowledgements

Upon the completion of this thesis I would like to thank all the people who have helped me during my PhD study and preparation of this thesis.

First of all I would like to thank the China Scholarship Council (CSC) of the Ministry of Education for the financial support of my four-year PhD study at Leiden University.

Special thanks to Prof. Dr. Eddy van der Meijden, Dr. Tom de Jong, Dr. Kirsten Leiss and Dr. Martine Stang for their brilliant ideas and helpful suggestions on my experimental designs and practical work throughout my entire PhD study.

Furthermore, I would like to thank the technical team from the Plant Ecology and Phytochemistry section. Many thanks to Karin van der Veen-van Wijk, Henk Nell and Cilke Hermans for their technical assistance in plant/insect rearing, caterpillar collecting and plant harvesting.

I also would like to thank Dr. Mirka Macel, Dr. Eva Castells, Dr. Niels Anten for their insightful comments on my manuscripts. Many thanks to Dr. Thijs Pons for helping with photosynthesis measurements and analysis, Dr. Patrick Mulder for helping with pyrrolizidine alkaloids measurements and analysis, Dr. Gaylord Desurmont and Diane Laplanche for leaf volatile measurements and analysis. Many thanks to Dr. Young Hae Choi for helping with the NMR measurements and data analysis, Dr. Niels Raes for helping with processing the climatic data and Dr. Erica Wilson for her efforts on English polishing.

Further technical helps in practical work were provided by my colleagues, Suzanne Kos, Sanae Mouden, Xianqin Wei, Gang Chen, Yangan Chen, Xiaojie Liu and students, Niels Pijnaker, Rosemarie Lindenbergh, Georgann Rog, Marcel Heykoop and Jackolien Nieuwhuis. Many thanks to them and to all the people from the Plant Ecology and Phytochemistry section. Furthermore, I would like to thank my friends Yingjie Zhou, Kaixuan Zhang, Suyun Zhang, Meiliang Zhou, Xiaorong Zhang, Hexi Shen, Yang Liu and my badminton team Cedar, Eric, Xinsheng, Shaoxia, Qiong, Arum, Dipen and Martine who have contributed a lot to my personal life in Leiden.

Finally I would like to thank all the people who provided seeds of *Jacobaea vulgaris* to me from all over the world and Leiden University Fund (LUF) for supporting me to participate in the 13th International Ecology and Management of Alien Plant Invasions Conference in Hawaii, USA.

Tiantian Lin

October 2015

Leiden, the Netherlands

Curriculum Vitae

Tiantian Lin was born on 24th December, 1986, in Chengdu, Sichuan province, China. In 2005 she was admitted to Sichuan Agricultural University for her Bachelor of Science study in Garden and Landscape at the Faculty of Forestry. After four years of study, she finished her undergraduate research project “The effect of cadmium stress on morphological and physiological development of poplar plants” and received her BSc. degree in June 2009.

After that she continued her Master of Science study in Forest Cultivation at the same faculty with the project “The detoxification effect of nitrogen supplement on cadmium stress in poplar plants”. After two years she completed her study and received her MSc. degree in September 2011.

In May 2011 she was granted a scholarship by the China Scholarship Council of the Chinese Ministry of Education for a four-year PhD study at Leiden University. In September, 2011 she arrived at Leiden and started her PhD study at the section of Plant Ecology and Phytochemistry at the Institute of Biology (IBL). During four years of study in Leiden she finished seven experiments and resulted in two publications, three submitted articles and this thesis.



Publication list

- **Lin T.**, Zhu X., Zhang F. & Wan X. (2011). The interaction effect of cadmium and nitrogen on *Populus yunnanensis*. *Journal of Agricultural Science*, 4 (2), 125-134.
- Zhang F., Zhu X., Guo Y., Wan X., **Lin T.**, Chen Q., Liu M. & Liu P. (2014). Ultrastructural changes and dynamic expressions of FAD7, Cu/Zn-SOD, and Mn-SOD in *Neosinocalamus affinis* under cold stress. *Russian Journal of Plant Physiology*, 61, 760-767.
- **Lin T.**, Doorduyn L., Temme A., Pons T.L., Lamers G.E., Anten N.P. & Vrieling K. (2015). Enemies lost: parallel evolution in structural defense and tolerance to herbivory of invasive *Jacobaea vulgaris*. *Biological Invasions*, 17: 2339-2355.
- **Lin T.**, Klinkhamer P.G.L. & Vrieling K. (2015). Parallel evolution in an invasive plant: effect of herbivores on competitive ability and regrowth of *Jacobaea vulgaris*. *Ecology Letters*, 18: 668–676.
- **Lin, T.**, Klinkhamer, P.G.L. & Vrieling, K. Parallel evolution in invasive *Jacobaea vulgaris*: the effect of carbohydrate storage on growth and regrowth. Submitted.
- **Lin, T.**, Klinkhamer, P.G.L., Pons, .T.L., Mulder, P.P.J. & Vrieling, K. Parallel evolution in an invasive plant: evolutionary changes in allocation to growth, defense and tolerance in invasive *Jacobaea vulgaris*. In preparation.
- de Jong, T.J., **Lin, T.** How to quantify regrowth? In preparation.

Conferences and workshops

- The 6th European Plant Science Retreat Workshop, July 2, 2014, Amsterdam, The Netherlands (Poster presentation).
- The 9th Plant-Insect Interactions Workshop, November 3, 2014, Utrecht, The Netherlands. (Oral presentation).
- The IBL Symposium 2014: Integrative Biology towards Healthy Communities, December 8, 2014, Leiden, The Netherlands. (Oral presentation).
- The 15th International Symposium on Insect-Plant Relationships (SIP), August 17-22, 2014, Neuchâtel, Switzerland. (Oral presentation).
- The 2015 Netherlands Annual Ecology Meeting (NERN), February 10 & 11, 2015, Wageningen, The Netherlands. (Oral presentation).
- The 13th International Ecology and Management of Alien Plant Invasions Conference (EMAPi 2015) September 20-24, 2015, Hawaii, USA. Funding by Leiden University Fund (LUF). (Both oral and poster presentations). Has been awarded with the outstanding oral presentation price.