



Universiteit
Leiden
The Netherlands

MYC transcription factors: masters in the regulation of jasmonate biosynthesis in *Arabidopsis thaliana*

Zhang, K.

Citation

Zhang, K. (2016, July 6). *MYC transcription factors: masters in the regulation of jasmonate biosynthesis in Arabidopsis thaliana*. Retrieved from <https://hdl.handle.net/1887/41032>

Version: Not Applicable (or Unknown)

License: [Licence agreement concerning inclusion of doctoral thesis in the Institutional Repository of the University of Leiden](#)

Downloaded from: <https://hdl.handle.net/1887/41032>

Note: To cite this publication please use the final published version (if applicable).

Cover Page



Universiteit Leiden



The handle <http://hdl.handle.net/1887/41032> holds various files of this Leiden University dissertation.

Author: Zhang, K.

Title: MYC transcription factors: masters in the regulation of jasmonate biosynthesis in *Arabidopsis thaliana*

Issue Date: 2016-07-06

**MYC transcription factors:
masters in the regulation of jasmonate
biosynthesis in *Arabidopsis thaliana***

Kaixuan Zhang

张 凯 旋

Kaixuan Zhang

MYC transcription factors:

masters in the regulation of jasmonate biosynthesis in *Arabidopsis thaliana*

PhD thesis, Leiden University, The Netherlands, 2016

© Kaixuan Zhang (2016)

All rights reserved. No part of this thesis may be reproduced, stored in retrieval systems, or transmitted in any form by any means, electronic, mechanical, photocopying, recording or otherwise without the prior written permission of the author.

Cover designed by Kaixuan Zhang

Printed by Ridderprint BV, the Netherlands www.ridderprint.nl

ISBN: 978-94-6299-372-3

**MYC transcription factors:
masters in the regulation of jasmonate
biosynthesis in *Arabidopsis thaliana***

Proefschrift

Ter verkrijging van
de graad van Doctor aan de Universiteit Leiden,
op gezag van de Rector Magnificus Prof. mr. C.J.J.M. Stolker,
volgens besluit van het College voor Promoties
te verdedigen op woensdag 6 juli 2016
klokke 11:15 uur

door

Kaixuan Zhang

geboren te Yantai (China)

in 1986

Promotiecommissie

Promotor: Prof. dr. J. Memelink

Overige leden: Prof. dr. B. Hause (Leibniz instituut of Plant Biochemie)

Prof. dr. C.J.M. Pieterse (Universiteit Utrecht)

Prof. dr. P.J.J. Hooykaas

Prof. dr. P.G.L. Klinkhamer

Prof. dr. H.P. Spaink

Contents

Chapter 1	General introduction	7
Chapter 2	MYC transcription factors regulate jasmonate biosynthesis genes in <i>Arabidopsis thaliana</i>	35
Chapter 3	MYC transcription factors control the jasmonate-responsive expression of the <i>ORA47</i> gene encoding a regulator of jasmonate biosynthesis in <i>Arabidopsis thaliana</i>	57
Chapter 4	Analysis of the role of DELLA proteins in the expression of jasmonate biosynthesis genes in <i>Arabidopsis thaliana</i>	77
Summary		99

