

Curriculum vitae for Mads Eggert Nielsen

Personal data:

Name, title: Mads Eggert Nielsen, Associate Professor
Date & place of birth: 11-06-1975, Denmark
Citizenship: Danish
E-mail: maen@plen.ku.dk
Telephone: +45 35320270
Researcher ID: F-8141-2014

Home address: Rubinvej 8
DK-3060, Espergærde
Denmark

Marital status: Married with two children at the age of 8 and 11
Mobile: +45 71755802

Academic degrees:

2006 (12/6): Industrial PhD, Technical University of Denmark and Carlsberg A/S
2002: MSc in Biology, Dept. of Plant Physiology, University of Copenhagen

Employments:

2015- : Assoc. Prof., Dept. Plant and Environm. Sciences, LIFE, University of Copenhagen
2013-2015: Postdoc., Dept. Plant and Environm. Sciences, LIFE, University of Copenhagen
2011-2013: Postdoc., ZMBP-Developmental Genetics, University of Tübingen
2006-2011: Postdoc., Dept. of Agriculture and Ecology, LIFE, University of Copenhagen
2002-2006: Industrial Ph D. Student, Technical University of Denmark
2002-2002: Research Assistant, Dept. of Plant Physiology, University of Copenhagen
1997-2001: Museum guide/teacher, Zoological Museum, University of Copenhagen
1996-1996: Substitute teacher, The Little School of Elsinore

Major impacts on science:

- The involvement of conserved Rab5 GTPases in plant disease resistance
- Recycling-to-secretory switch mediating protein trafficking to the division plane in plants
- The involvement of GNOM and dependency of protein recycling in plant innate immunity
- In-depth analysis of gene regulation in the syntaxin *syp121/122* double mutant.
- Established developmental defence activation in barley embryos.
- Has contributed to the knowledge on gene regulation by gibberellin.

Reviewing tasks:

New Phytologist, The Plant Journal, Journal of Experimental Botany, Plant & Cell physiology, Physiologia Plantarum, European Journal of Plant Pathology, Plant Science.

Teaching/Supervision:

Cell- and Genome Biology (Master level); 3 Master students, 4 BSc students.

Invited speaker:

University of Prague: Personal invitation by Viktor Žárský.
ENPER 2017, Prague: Conference on Plant Membrane Trafficking.
UPMT 2016, Lecce: Conference on Unconventional Protein and Membrane Trafficking.
University of Tübingen: Interview for position as Independent Junior Group leader.
Plant Biotech Denmark meeting, January 2009. Selected as one of four speakers to represent the most promising young researchers within the field of plant biotechnology in Denmark.
University of Lausanne: 2005

International stays

2011-2013: Laboratory of Prof. Gerd Jürgens, University of Tübingen.
2005: Laboratory of Prof. Edward Farmer, University of Lausanne.

Funded projects

2015-17: Villum Fonden (co-applicant)

2011-13: Carlsberg Foundation

2009-10: Danish Council for Independent Research | Natural Sciences (co-applicant)

2006-09: Carlsberg Foundation

Publication list – Mads Eggert Nielsen (Nielsen ME)

* Mads Eggert Nielsen acted as corresponding author, IF (5 year Impact Factor)

Peer-reviewed publications:

Kwaaitaal M, **Nielsen ME**, Böhlenius H and Thordal-Christensen H (accepted). “The plant membrane surrounding powdery mildew haustoria is related to the endoplasmic reticulum”. **J. Exp. Bot.**

IF=6.5

Hansen LL and **Nielsen ME*** (2017). “Plant exosomes: using an unconventional exit to prevent pathogen entry?” **J. Exp. Bot.** doi:10.1093/jxb/erx319

IF=6.5

Nielsen ME*, Jürgens G and Thordal-Christensen H (2017). “VPS9aActivatestheRab5GTPaseARA7toConferDistinct Pre-andPostinvasivePlantInnateImmunity”. **Plant Cell** 29:1927-1937.

IF=10

Xie W, **Nielsen ME**, Pedersen C and Thordal-Christensen H (2017). “A Split-GFP Gateway Cloning System for Topology Analyses of Membrane Proteins in Plants“. **PLoS ONE** 12(1): e0170118.

IF=3.4

Richter S, Kientz M, Brumm S, **Nielsen ME**, Park M, Krause C, Voss U, Beckmann H, Mayer U, Stierhof Y and Jürgens G (2014). “Delivery of endocytosed proteins to the cell-division plane requires change of pathway from recycling to secretion”. **eLIFE** 2014;3:e02131

IF=8.4

Nielsen ME* and Thordal-Christensen H (2013). Transcytosis shuts the door for an unwanted guest.

Trends in Plant Science 18: 611-616.

IF=13.4

Nielsen ME* and Thordal-Christensen H (2012). Recycling of Arabidopsis plasma membrane PEN1 syntaxin. **Plant Signal. Behav.** 16: 7(12)

Nielsen ME*, Feechan A, Böhlenius H, Ueda T and Thordal-Christensen H (2012). The *Arabidopsis* ARF-GEF exchange factor, GNOM, mediates transport required for innate immunity and focal accumulation of syntaxin PEN1. **PNAS** 109: 11443-8.

IF=10.4

Thordal-Christensen H, Böhlenius H, Mørch SM, and **Nielsen ME** (2011). Reply: On ARF1 Localizes to the Golgi and the Trans-Golgi Network: Future Challenge in Plant Multivesicular Body Studies. **Plant Cell** 23: 849-850.

IF=10

Böhlenius H, Mørch SM, Godfrey D, **Nielsen ME** and Thordal-Christensen H (2010). Barley ARFA1b GTPase demonstrates that pre-invasive basal defence and callose loading require multivesicular bodies. **Plant Cell** 22: 3831-3844.

IF=10

Zhang Z, Lenk A, Andersson MX, Gjetting T, Pedersen C, **Nielsen ME**, Newman M-A, Hou B-H, Somerville SC, Thordal-Christensen H (2008). A lesion-mimic syntaxin double mutant in *Arabidopsis* reveals novel complexity of pathogen defence signalling. **Mol. Plant** 1: 510-527.

IF=7.4

Nielsen ME* (2007). A transcriptomic view of barley embryo development. **Int. Jour. Plant Dev. Biol.** 1: 22-27.

Nielsen ME*, Lok F and Nielsen HB (2006). Distinct developmental defence activations in barley embryos identified by transcriptome profiling. **Plant Mol. Biol.** 61: 589-601.

IF=4.1

Bouquin T, Meier C, Foster R, **Nielsen ME**, Mundy J (2001). Control of specific gene expression by gibberellin and brassinosteroid. **Plant Phys.** 127: 450-458.

Mads Eggert Nielsen - *curriculum vitae and list of publications*

IF=7.4

Meier C, Bouquin T, **Nielsen ME**, Raventos D, Mattsson O, Rocher A, Schomburg F, Amasino RM, Mundy J (2001). Gibberellin response mutants identified by luciferase imaging. **Plant Jour.** 25: 509-519.

IF=6.4