

# CURRICULUM VITÆ

**Michal Daněk**

telephone: +420607718468

e-mail: danek@ueb.cas.cz

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## Education

- 2012 – now Charles University in Prague, Faculty of Science:  
doctoral study: Plant Anatomy and Physiology
- 2005 – 2011 Charles University in Prague, Faculty of Science:  
bachelor's degree in Biology followed by master's degree in Botany
- 2010 Université Montpellier 2, Montpellier, France:  
Erasmus stay
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## Work Experience

- 2012 – now Institute of Experimental Botany, Czech Academy of Sciences  
doctorand
- 2011 Republic Education Centre, Prague  
part-time job – data processing
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## Short-Term Study Stays

- 2018 Institute for Integrative Biology of the Cell (I2BC), CNRS/CEA/University Paris-Sud, France
- 2017 Institute for Integrative Biology of the Cell (I2BC), CNRS/CEA/University Paris-Sud, France
- 2014 Université Pierre et Marie Curie, Physiologie cellulaire et moléculaire des plantes, Paris, France
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## Publications

Kroumanová K, Kocourková D, [Daněk M](#), Lamparová L, Pospíchalová R, Malínská K, Krčková K, Burketová L, Valentová O, Martinec J, Janda M (2019): Characterisation of Arabidopsis flotillins in response to stresses. *Biologia plantarum* 63(1):144-152

Junková P, [Daněk M](#), Kocourková D, Brouzdová J, Kroumanová K, Zelazny E, Janda, Hynek R, Martinec J, Valentová O (2018): Mapping of plasma membrane proteins interacting with *Arabidopsis thaliana* Flotillin 2. *Frontiers in Plant Science* 9:991.

Krčková Z, Kocourková D, [Daněk M](#), Brouzdová J, Pejchar P, Janda M, Pokotylo I, Ott PG, Valentová O, Martinec J (2018): The *Arabidopsis thaliana* non-specific phospholipase C2 is involved in the response to *Pseudomonas syringae* attack. *Annals of Botany* 121 (2): 297-310

[Daněk M](#), Valentová O, Martinec J (2016): Flotillins, Erlins, and HIRs: From animal base camp to plant new horizons. *Critical Reviews in Plant Sciences* 35 (4):191-214.

Daněk M, Sklenář P, Kučerová A (2016): Seasonal and altitudinal variation of ericoid shrub freezing resistance in temperate bogs. *Silva Gabreta*, 22: 63-73.

Krčková Z, Brouzdová J, Daněk M, Kocourková D, Rainteau D, Ruelland E, Valentová O, Pejchar P, Martinec J (2015): Arabidopsis non-specific phospholipase C1: Characterisation and its involvement in response to heat stress. *Frontiers in Plant Science* 6:928.

Pejchar P, Potocký M, Krčková Z, Brouzdová J, Daněk M, Martinec J (2015): Non-specific phospholipase C4 mediates response to aluminum toxicity in *Arabidopsis thaliana*. *Frontiers in Plant Science* 6:66.

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## Conferences

Functional live imaging of plants, 2019, Nagoya, Japan

Daněk M, Petrášek J, Angelini J, Malínská K, Kocourková D, Brouzdová J, Martinec J: Distinct lateral dynamics of closely related proteins at the plasma membrane – role of cell wall or affinity for tonoplast?

(poster + flash talk)

21<sup>st</sup> European Network for Plant Endomembrane Research Meeting, 2018, Vienna, Austria

Daněk M, Petrášek J, Junková P, Kocourková D, Angelini J, Brouzdová J, Martinec J: Lateral mobility of *Arabidopsis thaliana* flotillins and HIRs is limited by means of interaction with cell wall

(talk)

12<sup>th</sup> Congress of the International Plant Molecular Biology, 2018, Montpellier, France

Daněk M, Petrášek J, Junková P, Kocourková D, Angelini J, Brouzdová J, Martinec J: Cell wall interactions with membrane microdomains: A Case of *Arabidopsis thaliana* Flotillin 2.

(poster)

14<sup>th</sup> International Student Conference on Experimental Plant Biology, 2017, Bratislava, Slovakia

Daněk M, Petrášek J, Kocourková D, Angelini J, Brouzdová J, Martinec J: Membrane proteins flotillins and their possible roles in *Arabidopsis thaliana*.

(talk)

Latest Advances in Plant Development & Environmental Response, 2016, Awaji, Japan

Daněk M, Petrášek J, Junková P, Kocourková D, Brouzdová J, Martinec J: *Arabidopsis thaliana* Flotillin 2: Characterization of a novel membrane microdomain protein.

(poster)

EMBO Conference Signalling in Plant Development, 2015, Brno, Czech Republic

Daněk M, Petrášek J, Brouzdová J, Kocourková D, Martinec J: Flotillins – signalization platform defining proteins in plants?

(poster)

Krčková Z, Brouzdová J, Daněk M, Kocourková D, Pejchar, P, Valentová O, Martinec J: Endoplasmic reticulum-localized non-specific phospholipase C1 mediates the response to heat stress in *Arabidopsis thaliana*

(poster)

Brouzdová J, Krčková Z, Daněk M, Kocourková D, Martinec J: Get to know NPC2 – member of the plant non-specific phospholipase C gene family

(poster)

18<sup>th</sup> International Microscopy Congress, 2014, Prague, Czech Republic

12<sup>th</sup> PhD Student Conference on Plant Experimental Biology, 2014, Olomouc, Czech Republic

Brouzdová J, Daněk M, Krčková Z, Kocourková D, Martinec J: Hot news about *Arabidopsis thaliana* non-specific phospholipase C.

(poster)

Krčková Z, Brouzdová J, Daněk M, Kocourková D, Valentová O, Martinec J: The non-specific phospholipase C1: Characterization and its role in heat stress.

(poster)

6<sup>th</sup> Methods in Plant Science, 2014, Seč, Czech Republic

(member of the organizing team)

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## Skills and Expertise

<b>Lab skills</b>	molecular cloning, transformation, yeast two-hybrid assay, optical, fluorescent and laser scanning and spinning-disc confocal microscopy, image processing and analysis, phenotyping, statistical analysis
<b>Professional interests</b>	plant plasma membrane, membrane microdomains, cell biology, microscopy, root development, plant and vegetation ecology, biodiversity
<b>Computer skills</b>	MS Office, ImageJ, GIMP, Photoshop, Corel, ZEN, NIS-Elements, R
<b>Mother tongue</b>	Czech
<b>Foreign languages</b>	English -B2 French - B2

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Prague, June 2019

Michal Daněk