

## Curriculum vitae

### Dadami Elena

**Date and place of birth:** 3 Feb 1984, Karditsa, Greece

**Current address:** Iasonos 36, 41223, Larissa

**e-mail:** helenadad@gmail.com

**Marital status:** married, two children

#### CURRENT STATE

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Mar. 2018- : **UNIVERSITY OF THESSALY**, Larissa, Greece

**Postdoc** position at Plant and Environmental Biotechnology Laboratory

Topic: Synthetic Biology: From OMICS technologies to genomic engineering (OMIC-ENGINE)

#### PARENTAL LEAVE 1+2

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Jan 2015 - Feb 2018

#### WORKING EXPERIENCE

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Oct. 2011- Dec 2014: **INSTITUT FOR PLANT SCIENCES**, Neustadt a.d. Weinstrasse, Germany

**Postdoc** position at RLP AgroScience GmbH, AlPlanta

#### EDUCATION

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2007- 2011 **UNIVERSITY OF CRETE – INSTITUTE OF MOLECULAR BIOLOGY AND BIOTECHNOLOGY (IMBB)**

**PhD thesis** in Plant Molecular Biology Laboratory

Topic: 'Insights in the biological cycle of *Potato spindle tuber viroid* in Dicer-like knock down *Nicotiana benthamiana* plants'.

Supervised by Assist. Prof. Dr. K. Kalantidis

2005- 2007 **UNIVERSITY OF CRETE– INSTITUTE OF MOLECULAR BIOLOGY AND BIOTECHNOLOGY (IMBB)**  
**POSTGRADUATE PROGRAM OF MOLECULAR BIOLOGY AND BIOMEDICINE**

Master Thesis: “A miRNA with manifold action in plants: miR414”

Grade: 8.36/10

Supervised by Assist. Prof. Dr. K. Kalantidis

2001-2005 **UNIVERSITY OF CRETE**

**Diploma degree in biology** (Grade 7.06/10)

Diploma Thesis: “Translational regulation of Notch target genes by microRNAs” Supervised by Prof. Dr. Delidakis C.

1999-2001 **2<sup>ND</sup> LYCEUM OF KARDITSA, GREECE**

Grade 18.7/20

## SCIENTIFIC EXPERIENCE

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2011-2014 **Epigenetics laboratory** (Assist. Prof. Dr. M. Wassenegger)

2005-2011 **Plant Molecular Biology Laboratory** (Assist. Prof. Dr. K. Kalantidis)

2005 Practical Rotations in the framework of MSc Thesis

1. **Pest and disease control laboratory** (Prof. Dr. C. Louis)

2. **Computational Neuroscience laboratory** (Dr. P. Poirazi)

3. **Plant Molecular Biology Laboratory** (Assist. Prof. Dr. K. Kalantidis)

2005 **Assistant in undergraduate laboratories** (“Methods in Genetics and Immunology’ and “Methods in cellular and molecular biology”)

2004-2005 **Drosophilla genetics laboratory** (Prof. Dr. Delidakis Christos)

## CONFERENCES – COURSES

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- November 2018      **Larissa, Attendance of 69<sup>th</sup> Panhellenic Conference in Biochemistry & Molecular Biology**
- 6-11 April 2008      **EMBL Hedeilberg**  
Participation and attendance of lectures and technical training of Joint EMBL/Exiqon Practical Course on High-throughput microRNA at EMBL (The European Molecular Biology Laboratory), presentation of PhD topic and results.
- December 2005      **Athens, Attendance of 57<sup>th</sup> Panhellenic Conference in Biochemistry & Molecular Biology**
- 4-8 July 2005      **Heraklion Crete, Attendance of the Onassis foundation science lectures series**  
specialized in programmed cell death and cell signaling in development and disease”

## LABORATORY EXPERIENCE

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- Molecular cloning
- Plasmid and genomic DNA isolation, Southern analysis
- RNA isolation of small and long RNAs, Northern analysis for small and large RNAs with radioactive probes
- Protein isolation, Western blots
- Electrophoretic mobility shift assay (EMSA)
- Real time PCR
- Agroinfiltration with transformed agrobacteria in different Solanaceae species
- Protoplasts isolation and transformation with poly-ethylen-glycol.
- Plant inoculation with viruses and viroids
- Plant tissue culture, generation of tobacco and *Arabidopsis thaliana* transgenic plants
- Graftings of different Solanaceae species
- Fungi handling (cultures, conidia isolation)
- Drosophila handling

## SKILLS

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- **Foreign Languages:**  
NOCN certificate in ESOL international in English  
(C2 level-proficiency)

Zentrale Mittelstufe-Prüfung (Goethe-Institut) in German

- **PC skills**

Competent with Microsoft Windows, Microsoft Office and programs designed for biology  
I-skills certificate on Basic I.T. standard syllabus version:1 in word processing, spreadsheets and information and communication modules

- **Presentations and report writing**

Accustomed to writing scientific reports and presenting

## PUBLICATIONS

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1. Dalakouras A, Wassenegger M, **Dadami E**, Ganopoulos I, Pappas M, Papadopoulou KK. (2020) GMO-free RNAi: exogenous application of RNA molecules in plants. *Plant Physiol.* 182:1-13
2. Katsarou K, Mitta E, Bardani E, Oulas A, **Dadami E**, Kalantidis K. (2019) DCL-suppressed *Nicotiana benthamiana* plants: Valuable tools in research and biotechnology. *Mol Plant Pathol.* 3:432-446
3. **Dadami E**, Dalakouras A. and Wassenegger M. (2017) Viroids and RNA silencing. *Viroids and Satellites*, pp.115-124
4. Dalakouras A., Wassenegger M., McMillan J., Cardoza V., Maegele I., **Dadami E**, Runne M., Krczal G. and Wassenegger M. (2016) Induction of silencing in plants by high pressure spraying of in vitro synthesized small RNAs. *Front Plant Sci.* 7:1327.
5. Dalakouras A., **Dadami E**, Wassenegger M., Krczal G. and Wassenegger M. (2016) RNA-directed DNA methylation efficiency depends on trigger and target sequence identity. *Plant J.* 87(2):2012-14
6. Dalakouras A., **Dadami E**, Bassler A., Zwiebel M., Krczal G. and Wassenegger M. (2015) Replicating Potato spindle tuber viroid mediates *de novo* DNA methylation of intronic viroid sequences but no cleavage of the corresponding pre-mRNA. *RNA Biol.* 12(3): 268-275.
7. Dalakouras A., **Dadami E**. and Wassenegger M. (2015) Engineering viroid resistance. *Viruses* 7:634-646.
8. **Dadami E**, Dalakouras A., Zwiebel M., Krczal G. and Wassenegger M. (2014) An endogene-resembling transgene is resistant to DNA methylation and systemic silencing. *RNA Biol.* 11(7): 934-941
9. Dalakouras A<sup>#</sup>, **Dadami E**. and Wassenegger M. (2013) Viroid-induced DNA methylation in plants. *Biomol Concepts* 4(6):557-565 (# corresponding author)
10. **Dadami E**, Moser M., Zwiebel M., Krczal G., Wassenegger M. and Dalakouras A<sup>#</sup>. (2013) An endogene-resembling transgene delays the onset of silencing and limits siRNA accumulation. *FEBS Letters* 587:707-710 (# corresponding author)
11. **Dadami E**, Boutla A, Vrettos N, Tzortzakaki S, Karakasilioti I, Kalantidis K. (2013) DICER-LIKE 4 but not DICER-LIKE 2 may have a positive effect on potato spindle tuber viroid accumulation in *Nicotiana benthamiana*. *Mol Plant.*, 6(1):232-4

12. Dalakouras A., **Dadami E.**, Zwiebel M., Krczal G. and Wassenegger M. (2012) Transgenerational inheritance of transgene body CG but not CHG and CHH methylation. *Epigenetics*, 7:9, 1-8.
13. Helm JM, **Dadami E**, Kalantidis K. (2011) Local RNA silencing mediated by agroinfiltration. *Methods Mol Biol.*, 744:97-108

## REFERENCES

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Assist. Prof. Dr. Michael Wassenegger (michael.wassenegger@agrosience.rlp.de)

Assist. Prof. Dr. Gabriele Krczal (gabi.krczal@agrosience.rlp.de)

Assos. Prof. Dr Kalliope Papadopoulou (kalpapad@bio.uth.gr)