

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

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

Jan 2015 - Feb2018

WORKING EXPERIENCE

Oct. 2011- Dec 2014: **INSTITUT FOR PLANT SCIENCES**, Neustadt a.d. Weinstrasse, Germany
Postdoc position at RLP AgroScience GmbH, AlPlanta

EDUCATION

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 **2ND LYCEUM OF KARDITSA, GREECE**

Grade 18.7/20

SCIENTIFIC EXPERIENCE

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

November 2018 **Larissa, Attendance of 69th 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 57th 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 signalling in developmet and disease”

LABORATORY EXPERIENCE

- 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
- Drosophila handling

SKILLS

- **Foreign Languages:**
Test of English for International Communication (TOEIC) in English
Score 910/990 – (C1 level-advanced)
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

1. Katsarou K, Mitta E, Bardani E, Oulas A, **Dadami E**, Kalantidis K. (2018) DCL-suppressed *Nicotiana benthamiana* plants: Valuable tools in research and biotechnology. *Mol Plant Pathol.* (*in press*)
2. **Dadami E.**, Dalakouras A. and Wassenegger M. (2017) Viroids and RNA silencing. *Viroids and Satellites*, pp.115-124
3. 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.
4. 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
5. 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.
6. Dalakouras A., **Dadami E.** and Wassenegger M. (2015) Engineering viroid resistance. *Viruses* 7:634-646.
7. **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
8. Dalakouras A[#], **Dadami E.** and Wassenegger M. (2013) Viroid-induced DNA methylation in plants. *Biomol Concepts* 4(6):557-565 (# corresponding author)
9. **Dadami E.**, Moser M., Zwiebel M., Krczal G., Wassenegger M. and Dalakouras A[#]. (2013) An endogene-resembling transgene delays the onset of silencing and limits siRNA accumulation. *FEBS Letters* 587:707-710 (# corresponding author)
10. **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
11. 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.
12. Helm JM, **Dadami E.**, Kalantidis K. (2011) Local RNA silencing mediated by agroinfiltration. *Methods Mol Biol.*, 744:97-108

REFERENCES

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)