



CURRICULUM VITAE

NAME: Dr. COSTAS DELIS

DATE OF BIRTH: 06/03/1974

NATIONALITY: Greek

MARITAL STATUS: Married

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UNDERGRADUATE STUDIES

1992-1998 Diploma in Agricultural Sciences (5 years degree – Equivalent to MSc in Agriculture) Department of Agricultural Biotechnology, Agricultural University of Athens.

Diploma thesis: “The protein dynamics of olive tree flowers”

GRADUATE STUDIES

2001-2003 MSc in Applied Biotechnology (Laboratory of Molecular Biology, Department of Agricultural Biotechnology, Agricultural University of Athens).
MSc Thesis: “Expression of ornithine and arginine decarboxylases in soybean seedlings”

2003-2006 PhD in Laboratory of Molecular Biology of Agricultural University of Athens (supervisor Prof. P. Katinakis)

PhD Thesis: “Polyamine metabolism in plants”

2007-2008 Post-Doc in the University of Thessaly Dept. Biochemistry and Biotechnology and John Innes Centre Dept. Metabolic Biology. Ann’s Osbourn lab (<http://www.jic.ac.uk/profile/anne-osbourn.asp>) (supervisor Assistant Prof. K. Papadopoulou)

FOREIGN LANGUAGES

English (fluent)

CURRENT RESEARCH INTERESTS

- Plant secondary metabolism, with emphasis on elucidation of triterpenoid biosynthesis pathways, manipulation of triterpenoid production and its effect on plant physiology and plant defence.
- Molecular plant-microbe interactions
- Plant circadian rhythms, plant epigenetic regulation.
- Tomato post-harvest physiology.
- Genetic analysis of Greek vegetable varieties.
- Plant Breeding

TEACHING EXPERIENCE

(2002-2005) Technical assistance at the laboratory exercises of Plant biochemistry at the Agricultural University of Athens.

(2006-August 2010) Position lecturer. Teaching ‘plant biotechnology’ and ‘plant molecular and developmental biology’ in undergraduate students in the University of Thessaly Dept. Biochemistry and Biotechnology.

(September 2010- Present) Elected in Technological Educational Institute of Kalamata. Lecturer. Teaching Plant Biotechnology and Genetics.

2008-2009 MSc Courses in Dept. Biochemistry and Biotechnology of University of Thessaly in “Applications of Molecular biology and Molecular Genetics”.

EMPLOYMENT

(2003-2004) Specialist, Ministry of Agriculture

(2005-2007) (19 months) Researcher in the European funded programme Pythagoras II, ‘stomata ontogenesis and photosynthetic mechanism development in *L. japonicus*. Studies in anatomical, ecophysiological and molecular level’.

(2006-2010) Lecturer in contract in the Dept. Biochemistry and Biotechnology, University of Thessaly.

(2010- Present) Lecturer in Technological Educational Institute of Kalamata.

SCHOLARSHIPS

2002-2003 Honorary scholarship from the Greek Scholarships Foundation (18 months).

2007-2008 Post doctoral fellow funded by Greek Scholarships Foundation.

ACADEMIC PUBLICATIONS – COMMUNICATIONS

- A1)** Kitsaki, K. C., Drossopoulos, J. B., Aivalakis, G., Anastasiadou, F. and **Delis, C. (1999)**. In vitro studies of ABA and ethephon induced abscission in olive organs. **Journal of Horticultural Science and Biotechnology**. 74(1): 19-25. **(I.F: 0.862)**
- A2)** Flemetakis, E., Efrose, C. R., Desbrosses, G., Dimou, M., **Delis, C.**, Aivalakis, G., Udvardi, K. M., and Katinakis P. **(2004)**. Induction and spatial organization of polyamine biosynthesis during nodule development in *Lotus japonicus*. **Molecular Plant Microbe Interactions**. 17(12): 1283-1293. **(I.F: 4.434)**
- A3)** Stavrianakou, S., Liakoura, V., Levizou, E., Karageorgou, P., **Delis, C.**, Liakopoulos, G., Karabourniotis, G. and Manetas, Y. **(2004)** Allelopathic effects of water-soluble leaf epicuticular material from *Dittrichia viscosa* on seed germination of 16 neighboring species, weeds and cultivated plants. **Allelopathy Journal**. 14(1): 35-42. **(I.F: 0.846)**
- A4)** **Delis, C.**, Dimou, E., Efrose, C. R., Flemetakis, M., Aivalakis, G and Katinakis, P. **(2005)** Ornithine decarboxylase and arginine decarboxylase gene transcripts are co-localized in developing tissues and expanding cells of *Glycine max* etiolated seedlings. **Plant Physiology and Biochemistry**. 43(1): 19-25. **(I.F: 2,838)**
- A5)** Dimou M, Flemetakis E, **Delis C**, Aivalakis G, Spyropoulos G K. and Katinakis P. **(2005)**. Genes coding for a putative cell-wall invertase and two putative monosaccharide/H⁺ transporters are expressed in roots of etiolated *Glycine max* seedlings. **Plant Science** 169 (4): 798-804. **(I.F: 2,864)**
- A6)** Dimou M, Flemetakis E, **Delis C**, Aivalakis G, Spyropoulos KG, Katinakis P. **(2005)**. Co-expression of two sugar transporters in primary and lateral roots of etiolated *Glycine max* seedlings. **Plant Growth Regulation** 45 (3): 259-266. **(I.F: 1,604)**
- A7)** **Delis, C.**, Dimou, M., Flemetakis, E., Aivalakis, G and Katinakis, P. **(2006)**. A root and hypocotyl specific gene coding for copper containing amine oxidase is

related to cell expansion in soybean seedlings. *Journal of Experimental Botany*. 57(1) 101-111. (I.F: 5,364)

A8) Costas Delis, Afrodite Krokida, Sofia Georgiou, Luis M. Pena, Nektarios Kavroulakis, Efstathia Ioannou, Vassilios Roussis, Anne E. Osbourn and Kalliope K. Papadopoulou. (2011). Role of lupeol synthase in *Lotus japonicus* nodule formation. *New Phytologist*, 189(1) 335-346. (I.F: 6,736)

A9) Georgios Tsaniklidis, Costas Delis, Georgios Liakopoulos, Ioannis Karapanos, Panayotis Katinakis, Harold Christopher Passam, and Georgios Aivalakis (2012). Induced parthenocarpic cherry tomato fruits did not shown significant differences in L-ascorbate content but showed different pattern in *GalLDH* and *GME* expression. *Plant Growth Regulation* 68:493–502. (I.F: 1,604)

A10) Afrodite Krokida¹, Costas Delis¹, Katrin Geisler², Constantine Garagounis^{1¶}, Daniela Tsikou^{1¶}, Luis M. Peña-Rodríguez³, Dimitra Katsarou¹, Anne E. Osbourn², Kalliope K. Papadopoulou^{1*} (2013). A metabolic gene cluster in *Lotus japonicus* discloses novel enzyme functions and products in triterpene biosynthesis. *New Phytologist*, 200:675-690. (I.F: 6,736).

A11) Georgios Tsaniklidis, Costas Delis, Nikolaos Nikoloudakis, Panayotis Katinakis, Harold Christopher Passam, and Georgios Aivalakis. (2014). L-ascorbic acid metabolism in parthenocarpic and seeded cherry tomatoes. *Plant Growth Regulation* 72(2): 141-153. (I.F: 1,604)

A12) Tsaniklidis G., Nikoloudakis N., Delis C., Aivalakis G. (2014). Ascorbate metabolism in vegetative and reproductive organs of “cherry” tomato. *Horticultural Science*. (In press). (I.F: 0.882)

A13) Vasilios Rounis, Konstantinos Skarmoutsos, Georgios Tsaniklidis, Nikolaos Nikoloudakis, Costas Delis, Ioannis Karapanos, and Georgios Aivalakis. (2014). Seeded and parthenocarpic cherry tomato fruits exhibit similar sucrose, glucose and

fructose levels, despite dissimilarities in *UGPase* and *SPS* gene expression and enzyme activity. **Journal of Plant Growth Regulation**. (In Press). (I.F: 1.990)

A14) Georgios Tsaniklidis, **Costas Delis***, Nikolaos Nikoloudakis, Panagiotis Katinakis, Georgios Aivalakis. (2014). Low temperature storage affects the ascorbic acid metabolism of cherry tomato fruits. (Submitted to **Plant Physiology and Biochemistry**)

ABSTRACTS

B1) Dimou, M. Aivalakis, G. **Delis C.** and Katinakis P. (2002). Sucrose carrier transcripts distribution in developing and lateral roots of Soybean etiolated seedlings. FESPP Congress. Book of Abstracts, 2-6 September 2002, Crete, Greece, p. 360.

B2) **Delis, C.**, Dimou, M., Fletmetakis, E., Efrose, C, R., Aivalakis, G. and Katinakis, P. (2003). Expression of two ornithine decarboxylases and one arginine decarboxylase in soybean etiolated seedlings. 55^o Congress of Hellenic Society of Biochemistry and Molecular Biology. Book of Abstracts, Athens 2003, Greece, pp. 117-121.

B3) Dimou, M., Fletmetakis, E., **Delis, C.**, Aivalakis, G. Gkani-Spyropoulou, K. and Katinakis, P. (2003). A monosaccharide/H⁺ transporter and a cell wall invertase are co-expressed in primary and secondary roots of etiolated soybean seedlings. 55^o Congress of Hellenic Society of Biochemistry and Molecular Biology. Book of Abstracts. Athens 2003, Greece, pp. 131-134.

B4) **Delis, C.**, Dimou, M., Fletmetakis, E., Aivalakis, G. and Katinakis, P. (2004). Evidence that a copper containing amino oxidase is correlated with cell expansion in soybean roots and hypocotyls. Hellenic Society of Biochemistry & Molecular Biology Proceedings of the 56th Meeting Volume 51, Larissa

B5) Rodica C. Efrose, Emmanouil Fletmetakis, Liliana Sfichi, **Costas Delis**, Kyriakos Kotzabasis and Panagiotis Katinakis. (2004). A spermine synthase gene, *LjSPMS*, is up-regulated during *Lotus japonicus* nodule development. Hellenic Society of Biochemistry & Molecular Biology Proceedings of the 56th Meeting Volume 51, Larissa.

B6) **Delis C.**, Fletmetakis E., Karabournioris G., Katinakis P. (2007). Transcript profiling of genes involved in flavonoid and phenylpropanoid metabolism in the

leaves of the model legume *Lotus japonicus*. 59th Meeting of the Hellenic Society of Biochemistry and Molecular Biology, Athens 2007, pp. 80.

B7) C. Delis., N. Kavroulakis, S. Georgiou, F. Bekris, B. Field, A,E. Osbourn, K,P. Papadopoulou (**2008**). Functional analysis of triterpenoid biosynthesis in legumes. PSE Young Scientists' Meeting, 26-29 March, Bad Herrenalb, Germany.

B8) Omirou M, Zampounis A, Katsarou D, **Delis C,** Ehaliotis C, Karpouzas D, Papadopoulou KK (2008) Effect of S fertilization on the glucosinolate content and biosynthesis of *Eruca sativa*. 7th Joint Meeting of AFERP, ASP, GA, PSE & SIF. Athens, Greece.

B9) Delis C, Georgiou S, Krokida A, Kavroulakis N, Osbourn A, Papadopoulou KP. (**2008**). Triterpenoid biosynthesis in legumes. 7th Joint Meeting of AFERP, ASP, GA, PSE & SIF. Athens, Greece.

B10) Afroditi Krokida, Delis Costas, Constantine Garagounis, Dimitra Katsarou, Ben Field, Daniela Tsikou, Katrin Geisler, Luis M. Peña-Rodríguez, Anne E. Osbourn and Kalliope K Papadopoulou. (**2011**). A Biosynthetic Gene Cluster for Triterpens in Legumes. 10th international Meeting of TERPENET. pp 52 Kalmar, Sweden.

B11) Afroditi Krokida, Delis Costas, Constantine Garagounis, Dimitra Katsarou, Daniela Tsikou, Anne E. Osbourn and Kalliope K Papadopoulou. (**2011**). A biosynthetic gene cluster for triterpens in *Lotus japonicus*. Phytochemical Society of Europe meeting. pp 163-164. Kolymvari, Crete, Greece.

Fourteen ABSTRACTS in Greek Conferences including two invited speeches.