

## LILIANA SFICHI-DUKE, PhD

University of Agricultural Sciences and Veterinary Medicine  
Department of Horticultural Researches  
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### EDUCATION

#### PhD in Biology

University of Crete, Irakleion, Greece February 2007

- Dissertation Title: Regulatory mechanisms of sensitivity/tolerance of the photosynthetic apparatus to enhanced UVB radiation
- Received Scholarship from State Scholarship Foundation of Greece for graduate studies in Plant Photobiology and Biochemistry, 2002-2004

#### Master of Science in Plant Molecular Biology and Biotechnology

University of Crete, Irakleion, Greece March 2002

- Dissertation Title: Contribution of photosynthetically active radiation intensity to the modulation of UVB effects on the photosynthetic apparatus in *Scenedesmus obliquus* cultures
- Received Scholarship from State Scholarship Foundation of Greece for postgraduate studies in Plant Molecular Biology and Biotechnology, 1999-2001

#### Certificate of specialization in Applied Biology

University "Al. I. Cuza", Iasi, Romania June 1993

- Dissertation Title: Dynamics of morphinanic alkaloid accumulation in cell cultures of *Papaver somniferum*
- Received Scholarship of Merit for postgraduate studies in Applied Biology, 1992-1993

#### Bachelor of Science in Biology

University "Al. I. Cuza", Iasi, Romania June 1992

- Dissertation Title: The parasitic complex in colonies of aphides on *Artemisia* plants
- Received Scholarship of Merit for undergraduate studies in Biology, 1988-1992

#### Researcher id on Web of Sciences: B-5079-2010

URL: <http://www.researcherid.com/rid/B-5079-2010>

### WORK EXPERIENCE

**Project director "The significance of the relationship among genomic response, phenylpropanoid metabolism and photosynthesis for the optimization of biosynthetic potential of raspberry and blackberry cultivars in abiotic stress conditions", grant no. 151/2010**

University of Agricultural Science and Veterinary Medicine Iasi Mai 2010 – until now

#### Postdoctoral scholar, Department of Physiology

University of Kentucky, Lexington, KY February 2008-June 2010

#### Researcher, Department of Biology

University of Crete, Irakleion, Greece June 2004-May 2006

#### Researcher, Department of Genetics and Evolutionism

Institute of Biological Research, Iasi, Romania July 1993-January 2000

### PEER REVIEWED PUBLICATIONS:

- Ioannidis NE, **Sfichi-Duke L**, Kotzabasis K (2011) Polyamines stimulate non-photochemical quenching of chlorophyll a fluorescence in *Scenedesmus obliquus*. *Photosynthesis Research* 107(2): 169-175.
- Vardanis G, **Sfichi-Duke L**, Tort L, Divanach P, Kotzabasis K, Pavlidis M (2011) The use of biochemical, sensorial and chromaticity attributes as indicators of post-mortem changes in commercial-size, cultured red porgy *Pagrus pagrus*, stored on ice. *Aquaculture Research* 42(3): 341-350.
- **Sfichi-Duke L**, Garcia-Cazarin ML, Sumandea CA, Sievert GA, Balke CW, Zhan DY, Morimoto S, Sumandea MP (2010) Cardiomyopathy-causing deletion K210 in cardiac troponin T alters phosphorylation propensity of sarcomeric proteins. *J Mol Cell Cardiol* 48(5): 934-942.
- Kurepa J, Karangwa C, **Duke Sfichi L**, Smalle JA (2010) Arabidopsis sensitivity to protein synthesis inhibitors depends on 26S proteasome activity. *Plant Cell Rep* (2010) 29:249–259.
- **Sfichi-Duke L**, Ioannidis NE, Kotzabasis K (2008) Fast and reversible response of thylakoid-associated polyamines during and after UV-B stress – a comparative study of the wild type and a mutant lacking chlorophyll b of unicellular green alga *Scenedesmus obliquus*. *Planta* 228(2), 341-353.
- Efrose RC, Flemetakis E, **Sfichi L**, Stedel C, Kouri ED, Udvardi MK, Kotzabasis K, Katinakis P (2008) Characterization of spermidine and spermine synthases in *Lotus japonicus*: induction and spatial organization of polyamine biosynthesis in nitrogen fixing nodules. *Planta* 228(1), 37-49.
- Sfakianaki M, **Sfichi L**, Kotzabasis K (2006) The involvement of LHCII-associated polyamines in the response of the photosynthetic apparatus to low temperature. *J Photochem Photobiol B* 84(3), 181–188. (Equal contribution with the first author).
- Ioannidis NE, **Sfichi L**, Kotzabasis K (2006) Putrescine stimulates chemiosmotic ATP synthesis. *BBA Bioenergetics* 1757(7), 821-828.
- **Sfichi L**, Ioannidis NE, Kotzabasis K (2004) Thylakoid-associated Polyamines Adjust the UV-B Sensitivity of the Photosynthetic Apparatus by Means of Light-harvesting Complex II Changes. *Photochem Photobiol* 80(3), 499–506.

### ABSTRACTS/POSTERS/OTHER PUBLICATIONS:

- Duke Sfichi L, Garcia-Cazarin ML, Sumandea CA, Sievert GA, Balke CW, Zhan DY, Morimoto S, Sumandea MP (2010) Cardiomyopathy-causing deletion K210 in cardiac troponin T alters phosphorylation propensity of sarcomeric proteins. *Biophys J* 98(3), 352-353. Biophysical Society 54<sup>th</sup> Annual Meeting. February 20 - 24, 2010, San Francisco, CA, USA
- Kurepa J, Wang S, Karangwa C, Li Y, **Duke LS**, Smalle J (2009) Effects of altered 26S proteasome activity on plant growth and stress tolerance 9<sup>th</sup> IPMB Congress, Oct 25-30 2009, St Louis MI USA
- **Duke LS**, Garcia-Cazarin M, Sumandea CA, Sievert GA, Balke CW, Sumandea MP (2008) The presence of dilated cardiomyopathy-inducing deletion Lys<sup>210</sup> alters cardiac troponin T's phosphorylation propensity. Gill Heart Cardiovascular Research Conference, KY, USA.
- García-Cazarín ML, **Duke LS**, Balke C, Sumandea MP (2008) Cardiac Troponin Phosphorylation in SHR and Human Myocardium. Annual Meeting of Thick and Thin Filament Regulation in Striated Muscle. May 4-6, Madison, WI, USA.
- **Sfichi L**, Morariu A, Roubelakis-Angelakis KA (2007) Effects of exogenous polyamines on amine oxidase activity and reactive oxygen species accumulation in grapevine protoplasts. 37<sup>th</sup> ESNA Annual Meeting, Dubna, Russia.
- **Sfichi L**, Morariu A, Lefort F, Roubelakis-Angelakis KA (2007) Identification of grapevine cultivars using microsatellite markers. Annual Scientific Conference “Horticulture – science, quality, diversity and harmony”, Iasi, Romania.

- **Sfichi L (2006) Regulatory mechanisms of adaptation/tolerance of the photosynthetic apparatus to enhanced UVB radiation, Ph.D. Dissertation, Editure of University of Crete, pp 1-190. Iraklion, Greece.**
- Efroze RC, Flementakis E, **Sfichi L**, Delis K, Kotzabasis K, Katinakis P (2004) Induction of Spm synthase gene in *Lotus japonicum* during nodule development. 5<sup>th</sup> Congress of Hellenic Society of Biochemistry and Molecular Biology, Larissa, Greece.
- **Sfichi L, Kotzabasis K (2004) Polyamine-controlled LHCII size influences the photosynthetic apparatus sensitivity to UVB radiation. Acta Physiol Plant 26 (3), 235-236. 14<sup>th</sup> FESPP Congress. Cracow, Poland.**
- **Sfichi L, Kotzabasis K (2004) The sensitivity of photosynthetic apparatus to UVB is regulated by polyamines through changes in the molecular organization of LHCII". 17<sup>th</sup> International Congress of Botany, Vienna, Austria.**
- **Sfichi L, Kotzabasis K (2002) The modulation of UVB effects on the photosynthetic apparatus by visible light intensity. 13<sup>th</sup> FESPP Congress, Crete, Greece.**
- Morariu A, **Sfichi L**, Cozma I, Bara II (2000) Aspects of alkaloid biosynthesis in in vitro cultures of *Glaucium flavum*. Acta Phytotherapica Romanica, IV, 1(2).
- **Sfichi L**, Radeanu I, Rosu C, Vantu S, Vorobiov A (1996) Preliminary studies concerning the influence of some biotic elicitors on the in vitro biosynthesis of secondary metabolites in *Papaver somniferum*. 1<sup>st</sup> Symposium of Genetic Engineering and Biotechnology, Kishinev, Moldova.
- Cozma I, **Sfichi L**, Vorobiov A, Bara II (1996) Dynamics of alkaloid accumulation in the ontogeny of *Papaver somniferum*. Scientific Session of Medicinal Plants Research Centre "Stejarul", Piatra-Neamt, Romania.
- **Sfichi L, Bara II (1995) In vitro Papaver somniferum behavioral variability induced by IAA/Tryptophan balance. Annals of Biological Sciences, t XLI. Iasi, Romania.**
- Vantu S, **Sfichi L**, Bara II (1995) Induction of morphinanic alkaloid accumulation in cell cultures of *Papaver somniferum* treated with fungal elicitors. Bulletin of Natural Societies of Cell Biology. Bucharest, Romania.
- Vorobiov A, Bara II, **Sfichi L** (1995) Chromosomes - the safeguards of genetic information. "V. Adamachi" 3(7). Iasi, Romania.
- Vantu S, Bara II, **Sfichi L** (1994) Induction of defense reactions in cell cultures. "V. Adamachi", 2(2). Iasi, Romania.
- **Sfichi L, Bara II (1994) Polysomes and their role in protein synthesis. "V. Adamachi", 2(3). Iasi, Romania.**
- Mustata G, Perju T, **Sfichi L** (1994) The parasitic complex in colonies of aphides on *Artemisia* plants, Annals of Biological Sciences, t XL. Iasi, Romania.
- Mustata G, Bara II, Vantu S, Nicoara M, **Sfichi L** (1994) Ernst Haeckel's contribution in science, Annals of Biological Sciences, t XL. Iasi, Romania.

### **Computer and language skills**

- MS Office: Word, Excel, Power Point, Access, Publisher; Photoshop
- English, Romanian, Greek –fluent; French-good scientific use.