

Ifigeneia V. Mavragani

Ιφιγένεια Β. Μαυραγάνη



EDUCATION

Studies

Jan. 2016 – to date

PhD candidate | Physics Department, National Technical University of Athens (NTUA)

Sept. 2016

MSc in **Medical Physics & Radiation Physics** | Medical Physics Laboratory - University of Athens (UOA), National Center for Scientific Research (NCSR) “Demokritos”

Apr. 2014

5-year studies Diploma in **Applied Mathematical & Physical Sciences**, NTUA | Streams: *Nuclear Physics & Elementary Particles, Optoelectronics & Lasers*

Training

Practical training in Health Physics, Radiobiology & Cytogenetics Laboratory, NCSR “Demokritos” | 2012-2013

Further Education

DoReMi short course entitled *CELOD: cellular effects of low doses and low dose-rates with focus on DNA damage and stress response*, Stockholm University, Sweden | 13-24 Apr. 2015



AWARDS & SCHOLARSHIPS

2016 IKY-Siemens Excellence Research grant received by I. Mavragani and dr. A. Georgakilas for their proposal titled “Measurement of complex DNA damage after exposure to radiotherapeutic doses of γ -rays and low-energy protons”

Young Investigator Award sponsored by Precision X-ray | 14th International Workshop on Radiation Damage to DNA, Melbourne, Australia | 20-24 March 2016

Thomaidio Award by NTUA, for under-graduate scientific publication: “*Non-targeted radiation effects in vivo: A critical glance of the future in radiobiology*”, Cancer Letters 356 (2015) 34-42



PERSONAL INFORMATION

Nationality/ Greek
Date of birth/ 15.11.1989

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REFEREES

Alexandros G. Georgakilas,
(Assistant Professor, NTUA)
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Georgia I. Terzoudi,
(Senior Researcher, INRASTES,
NCSR ‘Demokritos’)
E/ gterzoudi@rrp.demokritos.gr

SKILLS

Languages

Greek	(Mother tongue)
English	Certificate of Proficiency in English, University Of Michigan (C2 level)
French	Diploma in French Studies (DELF) 1 st degree (B1 level)

Computer Skills

Oper. Systems	Windows, Mac OS, Linux Microsoft Office™ (Word, Excel, PowerPoint)
Progr. Languages	Fortran, Java
Scientific Softw.	Matlab, Mathematica, SPSS, Origin, Isis (Metasystems), Foci Counter, Jcount (for γ -H2AX foci analysis)

Laboratory Skills

Microscopy Techniques	optical, immunofluorescence isolation of peripheral blood lymphocytes, γ -H2AX foci assay, chromosomal aberrations, Micronucleus assay, gel electrophoresis
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OTHER

Student Competition Participation

Local BEST Engineering Competition, Apr. 2011, NTUA and National BEST Engineering Competition, Case Study category "Resolution of real business problems", May 2011, University of Patras, Greece

Conference Attendance

- 8th European Conference on Medical Physics (ECMP 2014), Sept. 11-13, 2014, Athens, Greece
- European Cooperation in Science and Technology (COST) Action CM1201: Biomimetic Radical Chemistry/1st WG2 meeting: Models of DNA Damage and Consequences, Oct. 18-19, 2013, Athens, Greece
- Euroson School "Ultrasound Elastography and Therapeutic Ultrasound", Jan. 21-22, 2012, Athens, Greece
- 4th Pan-Hellenic Conference on Biomedical Engineering, Jan. 20-21, 2012, NTUA, Greece

Hobbies & Interests

Volunteering (ALMA - Pan-Hellenic Union of adapted sport & cultural activities), solving puzzles, crafts, mountain hiking

PUBLICATIONS

Theses

T1. "Theoretical calculations of clustered DNA damage in tissues for radiation therapy applications", Master Thesis | UOA - NTUA, 2016

T2. "Detection of clustered DNA damage in human cells after exposure to low doses of ionizing radiation", Diploma Thesis | NTUA - NCSR, 2014. (in Greek)

Review Papers in International Journals

J1. "Systemic mechanisms and effects of ionizing radiation: A new 'old' paradigm of how the bystanders and distant can become the players", Z. Nikitaki, **I.V. Mavragani**, *et al.*, Seminars in Cancer Biology, *In press*, 2016

J2. "Key mechanisms involved in ionizing radiation - induced systemic effects. A current review", **I.V. Mavragani**, D.A. Laskaratou, *et al.*, Toxicology Research, 2015

J3. "Non-targeted radiation effects in vivo: A critical glance of the future in radiobiology", V.I. Hatzi, D.A. Laskaratou, **I.V. Mavragani**, A.G. Georgakilas, *et al.* Cancer Letters, Vol. 356(1), 2015, pp. 34-42

Chapters in Books

B1. "Oxidative stress and DNA damage association with carcinogenesis: A truth or a myth?", V.I. Hatzi, D.A. Laskaratou, **I.V. Mavragani** *et al.*, Studies on Environmental Toxicology and Pharmacology, ed. by Roberts S.M., Kehrer J.P., Klotz L-O. , Springer UK, 2015

B2. "Inflammatory pathways of radiation - induced tissue injury", D.A. Laskaratou, **I.V. Mavragani**, A.G. Georgakilas, Cancer and Inflammation Mechanisms: Chemical, Biological, and Clinical Aspects, ed. by Hiraku Y., Kawanishi S., Ohshima H., John Wiley & sons, 2014

Posters

P1. "Identifying the key mechanisms in ionizing radiation-induced non-targeted effects", **I.V. Mavragani** *et al.* | 14th International Workshop on Radiation Damage to DNA, Melbourne, Australia | March 20 - 24, 2016

P2. "Role of double strand break repair proteins in the processing of clustered DNA lesions", **V.I. Hatzi**, **I.V. Mavragani** *et al.* | 40th Annual Meeting of the European Radiation Research Society (ERR), Dublin, Ireland | Sept. 1 - 5. 2013