

CURRICULUM VITAE

Personal information

Surname: Valiakou

Name: Vaia

Date of birth: 13/12/1988

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Education

2014-up today: MSc student in Clinical Biochemistry - Molecular Diagnostics, interdepartmental MSc departments of Biology, Chemistry and Nursing, University of Athens, Greece.

Courses: Biostatistics-Bioinformatics, Clinical Biochemistry, Modern Biochemical and Biophysical Techniques, Molecular Biology, Anatomy-Physiology, Molecular Basis of Human Diseases, Pathobiochemistry, Molecular Basis of Genetic Diseases, Microbiology- Mycology, Immunology, Molecular Diagnostics, Laboratory Administration

Project: "Study of PIK3CA mutations as an early detection marker for breast cancer", Faculty of Chemistry, University of Athens.

2008-2013: BSc, Graduate of School of Biology, Faculty of Sciences, Aristotle University of Thessaloniki.

Project: "Study of the effect of leptin in breast cancer treatment by tamoxifen", Faculty of Medicine, School of Health Sciences, University of Thessaly.

2006: Graduated from the 5th High School of Larisa, Thessaly, Greece.

Languages

Native Language: Greek

Other Languages: English (Certificate of Proficiency in English, University of Michigan).

Scientific experience

01/10/2014-up today: Laboratory of Analytical Chemistry, Faculty of Chemistry, University of Athens

01/07/2012-30/06/2013: Annual Research Fellowship as Biologist in the Department of Biomedical Research and Technology, of the Centre for Research and Technology, Thessaly, Greece (CE.RE.TE.TH.)

Project: "Investigation of the molecular mechanisms implicated in: a) the process of breast cancer cell metastasis, and b) osteoarthritis, in primary chondrocytes, isolated from patients with osteoarthritis".

01/03/2011-30/06/2012: Laboratory of Cytogenetics and Molecular Genetics, Department of Clinical and Laboratory Research, Faculty of Medicine, University of Thessaly, University Hospital of Larisa.

01/7/2011-31/8/2011: Assistant embryologist in Assisted Reproduction Unit, Department of Obstetrics and Gynaecology, University of Thessaly, University Hospital of Larisa.

Technical-laboratorial experience

- Cell culture
- RNA isolation from whole tissue and cells, Protein isolation, DNA isolation from peripheral blood, Isolation of primary chondrocytes from human cartilage
- Reverse transcription of RNA to cDNA
- Polymerase chain reaction (PCR), Real time Polymerase chain reaction (RT – PCR)
- Immunoblotting (Western Blot)
- Transient transfection of human cells with siRNA
- Proliferation assay using Alamar blue and MTT, Spreading assay, Attachment assay, Adhesion assay, Dissociation assay
- Cell-immunostaining
- Knowledge of Protein/DNA Electrophoresis
- Bacterial transformation
- Knowledge of Sperm concentration measurement using Neubauer plate, IVF techniques, Cryopreservation of embryos, ova and semen
- Very good use of Microsoft office, statistical software IBM SPSS 22.0, Use of scion image software, In silico design of primers and probes for PCR analyses (PrimerPremier 5.0).

Publications

Gkretsi V, Papanikolaou V, Dubos S, Papathanasiou I, Giotopoulou N, Valiakou V, Wu C, Malizos KN, Tsezou A. Migfilin's elimination from osteoarthritic chondrocytes further promotes the osteoarthritic phenotype via β -catenin upregulation. *Biochem Biophys Res Commun*. 2013 Jan 11;430(2):494-9.

Giotopoulou N, Valiakou V, Papanikolaou V, Dubos S, Athanassiou E, Tsezou A, Zacharia LC, Gkretsi V. Ras suppressor-1 promotes apoptosis in breast cancer cells by inhibiting PINCH-1 and activating p53-upregulated-modulator of apoptosis (PUMA); verification from metastatic breast cancer human samples. *Clin Exp Metastasis*. 2015 Mar;32(3):255-65.

Papanikolaou V, Stefanou N, Dubos S, Papathanasiou I, Palianopoulou M, Valiakou V, Tsezou A. Synergy of leptin/STAT3 with HER2 receptor induces tamoxifen resistance in breast cancer cells through regulation of apoptosis-related genes. *Cell Oncol (Dordr)*. 2015 Apr;38(2):155-64.

Conferences

- 15/12/2014-17/12/2014: Masterclass on circulating tumor cells and molecular biomarkers.
- 07/11/2014-08/11/2014: 12th Panhellenic Conference on Clinical Chemistry, Greece
- 11/10/2014-12/10/2014: Multidisciplinary Forum «Peak issues in breast cancer", Athens, Greece
- 14/06/2014-16/06/2014: Tumor biomarkers: From discovery to clinical applications (TB 2014)
- 06/12/2013-08/12/2013: 64th congress of the Hellenic society of Biochemistry and Molecular diagnostics, Athens, Greece
- 6/09/2012 –7/09/2012: International Conference on Cartilage Biology & Tissue Engineering, Larisa, Greece.
- 25/11/2011-27/11/2011: 2nd Panhellenic Conference in “ Public Health & Social Medicine”, Larisa, Greece.
- 03/12/2009-06/12/2009: 4th International Congress on Brain & Behaviour & 17th Thessaloniki Conference, Thessaloniki, Greece.
- 20/11/2009-22/11/2009: 60th Panhellenic Conference of the Hellenic Society of Biochemistry and Molecular Biology, Athens, Greece
- 7/12/2007-9/12/2007: 59th Panhellenic Conference of Biochemistry and Molecular Biology, Athens, Greece

References

Evi S.lianidou. *Professor of Analytical Chemistry–Clinical Chemistry, Laboratory of Analytical Chemistry, Analysis of Circulating Tumor Cells (ACTC) Lab, Dept of Chemistry, University of Athens, Athens, Greece, email: lianidou@chem.uoa.gr*

Minas Arsenakis. *Professor of Microbiology, Department of Genetics, Development and Molecular Biology, School of Biology, Faculty of Sciences, Aristotle University of Thessaloniki, Greece, email: arsenaki@bio.auth.gr*

Aspasia Tsezou. *Professor of Medical Genetics, Laboratory of Cytogenetics and Molecular Genetics, Department of Clinical and Laboratory Research, Faculty of Medicine, University of Thessaly, email: atsezou@med.uth.gr*

Vasiliki Gkretsi. *Ph.D Researcher D', Institute of Biomedical Research and Technology (BIOMED), CEnter for REsearch and TEchnology-THessaly (CE.RE.TE.TH), Larissa, Greece, email: vasso.gkretsi@gmail.com*