Eleni Bagli, MD, PhD

Education

1997 MD, Medical School, University of Ioannina, Greece.

2003 PhD in Medical School, University of Ioannina, Greece. Title: "Flavonoids and angiogenesis: effect on in vivo model of angiogenesis (cornea assay) and molecular mechanism of action".

2009 Specialist in Ophthalmology, award by the Health Board of Greece.

Employment - Professional Career

1.2004-12.2004 Research Scientist 1, Pharmacology Department, Exelixis inc. San Francisco, CA, USA.

5.2009-11.2009 Clinical research fellow in Medical Retina, Moorfields Eye Hospital, NHS London, UK.

2010-pres. Postdoctoral researcher, IMBB-BR Ioannina Branch FORTH, Fotsis-Murphy Lab.

9.2016-pres. Consultant ophthalmologist, Eye Clinic University Hospital of Ioannina, Greece.

Training in animal disease models

-In vivo angiogenesis assay (rabbit cornea assay). Department of Pharmacology, University of Florence, Italy (Prof M. Ziche).

-Laser-induced choroidal neovascularization model in mice. Department of Ophthalmology, University of, Kentucky, USA (Lab of Prof. J Ambati).

-Cancer/metastasis models and wound healing model in mice. Exelixis inc. South San Francisco, CA, USA

Research work

i Research Funding:

1999-2003 & 2011-2012 Researcher in 5 national and EU programmes.

15.6.2012-15.6.2015 Funded as Postdoctoral Researcher via the programme «Remodeling Diabetic and Ischemic Retinal Vasculature Using Progenitor Stem Cells». Action "Supporting Postdoctoral Researchers" Operational Programme "Education And Lifelong Learning" Greek General Secretariat for Research and Technology

ii. Publications: 32, Citations (scopus): 2781, h factor: 16)

Selected publications

1.Embryonic stem cells are devoid of macropinocytosis, a trafficking pathway for activin A in differentiated cells. Kostopoulou N, Bellou S, Bagli E, Markou M, Kostaras E, Hyvönen M, Kalaidzidis Y, Papadopoulos A, Chalmantzi V, Kyrkou A, Panopoulou E, Fotsis T, Murphy C. J Cell Sci. 2021 Jun 11:jcs.246892.

2. Tissue Engineering Using Vascular Organoids From Human Pluripotent Stem Cell Derived Mural Cell Phenotypes. Markou M, Kouroupis D, Badounas F, Katsouras A, Kyrkou A, Fotsis T, Murphy C, Bagli E. Front Bioeng Biotechnol. 2020 Apr 17;8:278. doi: 10.3389/fbioe.2020.00278.

3. Proteome Changes during Transition from Human Embryonic to Vascular Progenitor Cells. Tsolis KC*, Bagli E*, Kanaki K*, Zografou S, Carpentier S, Bei ES, Christoforidis S, Zervakis M, Murphy C, Fotsis T, Economou A.. J Proteome Res. 2016 Jun 3;15(6):1995-2007.

4. Mechanical stress affects methylation pattern of GNAS isoforms and osteogenic differentiation of hAT-MSCs. Vlaikou AM, Kouroupis D, Sgourou A, Markopoulos GS, Bagli E, Markou M, Papadopoulou Z, Fotsis T, Nakos G, Lekka ME, Syrrou M. Biochim Biophys Acta. 2017 Aug;1864 (8):1371-1381.

5. VEGF autoregulates its proliferative and migratory ERK1/2 and p38 cascades by enhancing the expression of DUSP1 and DUSP5 phosphatases in endothelial cells. Bellou S, Hink MA, Bagli E, Panopoulou E, Bastiaens PI, Murphy C, Fotsis T. Am J Physiol Cell Physiol. 2009 Dec; 297(6):C1477-89.

6. Three-dimensional characterization of collagen remodeling in cell-seeded collagen scaffolds via polarization second harmonic generation. Xydias D, Ziakas G, Psilodimitrakopoulos S, Lemonis A, Bagli E, Fotsis T, Gravanis A, Tzeranis DS, Stratakis E. Biomed Opt Express. 2021 Jan 28;12(2):1136-1153.

7. Luteolin inhibits vascular endothelial growth factor-induced angiogenesis; inhibition of endothelial cell survival and proliferation by targeting phosphatidylinositol 3'-kinase activity. Bagli E, Stefaniotou M, Morbidelli L, Ziche M, Psillas K, Murphy C, Fotsis T. Cancer Res. 2004 Nov 1; 64(21):7936-46.

8. Trends in prevalence of blindness and distance and near vision impairment over 30 years: an analysis for the Global Burden of Disease Study. GBD 2019 Blindness and Vision Impairment Collaborators; Vision Loss Expert Group of the Global Burden of Disease Study. Lancet Glob Health. 2021 Feb;9(2):e130-e143.