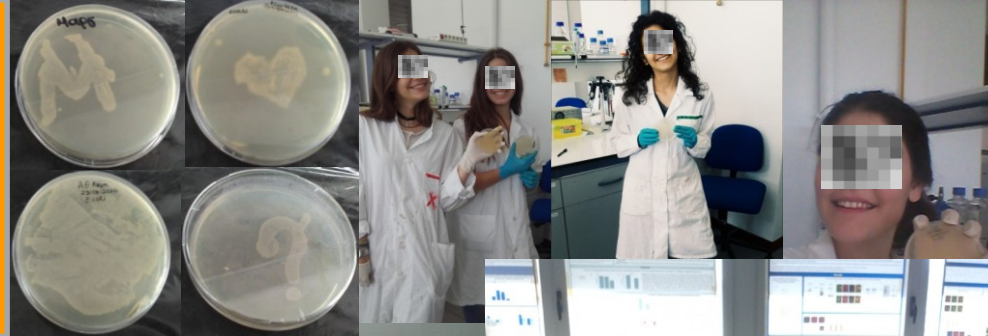


OUTREACH ACTIVITIES



Dr Pantazaka

Prof. Papadimitriou

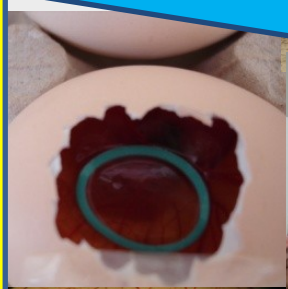


Summer schools 2016

MOLECULAR PHARMACOLOGY

ANGIOGENESIS GROUP

ALTangio
TARGET
(FP7-IEF)



Schools go to university 2017



The Angiogenesis Group of the Laboratory of Molecular Pharmacology is actively participating in outreach activities organised by the Department of Pharmacy or the University of Patras. Since the summer of 2016, the lab has welcomed approximately 90 students aged 14-17 with their teachers, from schools of the city of Patras, to experience the life of scientists!

One of the main interests of the Angiogenesis group is to elucidate the mechanisms of pathological angiogenesis that contribute to tumour growth. Angiogenesis is a hallmark of cancer. The "smart" cancer cells take advantage of the angiogenesis process and use the vascular system to supply them with food and oxygen in order to grow, as well as a way to be transported in different parts in the body (metastasis).

Dr Pantazaka gave interactive talks to introduce students to aspects of cancer and pathological angiogenesis and engaged them to a lot of discussion and debate. Prof. Papadimitriou and Dr Pantazaka demonstrated how a simple model, that of the chick embryo, can be useful for the study of angiogenesis. Students monitored the heart rate of the chick embryos, the blood flow under the stereoscope and the vascular network in different developmental stages.

In one of the visits, 4 students were allocated to the lab under the supervision of Dr Pantazaka and were introduced to laboratory techniques such as: bacterial transformation, DNA isolation, Western blotting and microscopy. On their last day, students gave a presentation regarding their visit and the acquired knowledge, and their comments were extremely positive as to the hospitality, the enthusiasm they experienced and the inspiration they received.