

ALEXANDRA DASKALAKI

PERSONAL INFORMATION

Home address: Ippodamou 15, Patra, Greece
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Date of birth: 03/04/1990

EDUCATION

09/2016 **Master degree at the Department of Biology of the University of Patras, Greece**
Title «Biological Technology»

10/2009 – 09/2015 **Bachelor degree in the University of Patras, Greece**
Department of Biology

09/2005 – 06/2008 **General high school of Samos, Greece**

EMPLOYMENT EXPERIENCE

01/2016 – 03/2016 **Aretaieio Hospital, Athens, Greece**
Observation of laboratory analysis (Detection of *Chlamydia trachomatis* by PCR in blood or bodily fluids, detection and standardization of human papilloma virus (HPV) by PCR, process of in vitro fertilization).

RESEARCH PROJECTS

2014 – 2015 **«Inhibition of the lipid degradation process of the intercellular lipids in the yeast *Yarrowia lipolytica*»**
Thesis (In the laboratory of Microbiology at the Department of Biology of the University of Patras) in the limits of the project with the title «MicroOil – Research in oleaginous microorganisms and development of new biotechnological operations». The results of this research will be published in an international magazine with judges.
Supervisor Mr. George Aggelis.

RESEARCH SKILLS (MICROBIOLOGY LABORATORY SKILLS)

- Microbial cultures:
 - Preparation of liquid and solid media for microorganism cultivation (yeasts)
 - Preparation of microorganisms cultivations in both flasks
 - Conducting experiments concerning microorganism cultivation on solid and liquid substrates
- Classical Microbiology Techniques:
 - Gram (+) and Gram (-) staining, malachite green staining
 - Nile red staining for microbial lipids
 - Observation of microorganism morphology by optic microscope
 - Observation of microorganism intracellular lipids by fluorescence microscope

- Photometric analysis (Folin–Ciocalteu method, 3,5- dinitrosalicylic acid method-DNS, Biuret method, Dubois method)

➤ Specialized Microbiology Techniques:

- Biomass determination from yeast and fungi cultures, cultivated on liquid or solid media
- Extraction of intracellular and extracellular total lipids from microbial cultures (FOLSH, Soxhlet)
- Purification and fractionation of total lipids into neutral lipids, sphingolipids, phospholipids and glycolipids
- Acyl-esterification of lipids
- Proteins and polysaccharide determination

➤ Analytical Techniques:

- High Performance Liquid Chromatography (HPLC)
- Gas Chromatography (GC)

CONFERENCES

2015	Workshop: "Microbiology and Biotechnological Applications: Challenges and Opportunities III"
2015	Workshop: "Microbiology and Biotechnological Applications: Challenges and Opportunities II"
2014	Workshop: "Microbiology and Biotechnological Applications: Challenges and Opportunities"

FOREIGN LANGUAGES AND SKILLS

Foreign languages	English - Proficiency Certificate in English, University of Michigan - First Certificate in English, University of Cambridge German - Zertificat Deutsch (B1), Goethe-Institut
H/Y Skills	Microsoft office Specialist Master (Word, Excel, PowerPoint, Access, Outlook), Origin lab, GIS