

# CURRICULUM VITAE

**IOANNA PYRRI**

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## PERSONAL INFORMATION

**First name:** Ioanna  
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### **Employment**

2014- Laboratory Teaching Staff, Section of Ecology & Systematics, Department of Biology, National and Kapodistrian University of Athens  
2007-2014 Administrative and Technical staff, Section of Ecology & Systematics, Department of Biology, National and Kapodistrian University of Athens  
2001-2007 Participation in the service provision of the ATHUM Culture Collection of Fungi, Department of Biology, National and Kapodistrian University of Athens

### **Education**

2008 Ph.D. in Mycology. National and Kapodistrian University of Athens, Department of Biology, Section of Ecology and Systematics.  
Title of thesis: «Taxonomic and ecological study of airborne fungi in the area of Athens».  
1996 Diploma in Biology. National and Kapodistrian University of Athens, Department of Biology.

### **Foreign Languages**

English (First Certificate 1989, Proficiency 1993)  
French (Delf 1998)

### **Research - Training**

2019 Westerdijk Fungal Biodiversity Institute, Utrecht, The Netherlands  
Dr. Jos Houbraken  
Polyphasic taxonomy of *Penicillium* and *Talaromyces* species originating from Greece.  
Visiting grant: NKUA, School of Sciences Dean's Office, Dean Prof. Ioannis Emmanouil, Code 15607  
2016 Chinese Academy of Science, Institute of Microbiology, Beijing, China  
WDCM Training Course for Developing Countries on Microbial Resources Information Management and Utilization.  
Scholarship, Chinese Academy of Science  
2010 CBS-KNAW Fungal Biodiversity Centre, Utrecht, The Netherlands  
Prof. Dr. Robert Samson  
Molecular analysis of *Aspergillus* and *Penicillium* species originating from indoor air of the ATHUM and CBS Culture Collections of Fungi.  
Scholarship "Guest Researcher", CBS-KNAW Fungal Biodiversity Centre

## **Distinctions**

- 2018 Best Photo Award. 11<sup>th</sup> International Congress on Aerobiology, Parma, Italy.
- 2006 Young Aerobiologist Award. International Association for Aerobiology. IAA Newsletter (2007) 64: 1-15. The award included cash prize.
- 2005 Distinction. Pan-Hellenic Photography Contest entitled «The miracle of life». Academy of Photography.
- 2000 2<sup>o</sup> prize. Pan-Hellenic Photography Contest entitled «The miracle of life». Academy of Photography.

## **TEACHING RESPONSIBILITIES**

### **Courses**

Assignment by the Section of Ecology and Systematics to teach part of the subject matter of the undergraduate courses:

1. MYCOLOGY (elective), percentage 30% (2020-)
2. MOLECULAR ECOLOGY (elective), percentage 12% (2020-)
3. TERRESTRIAL PLANTS AND FUNGI (elective), percentage 20% (2017-2019)
4. FRESHWATER ECOSYSTEMS (elective), percentage 8% (2016-)
5. AQUATIC PLANT ORGANISMS (elective), percentage 8% (2016-2018)

Assignment by the Section of Ecology and Systematics to teach part of the subject matter of the postgraduate courses:

1. ENVIRONMENTAL BIOTECHNOLOGY (2019-)
2. MARINE MICROBIOLOGY (2017-)

### **Laboratory courses**

Participation in the teaching of laboratory courses (assignment by the Section of Ecology and Systematics) for the practical training of Biology students in the undergraduate courses:

1. MYCOLOGY (elective), (2020-)
2. BOTANY (compulsory), (2017-)
3. ECOLOGY (compulsory), (2017-)
4. PLANT TAXONOMY AND BIOSYSTEMATICS (compulsory), (2001-2017)
5. GENERAL ECOLOGY (compulsory), (2001-2018)
6. POPULATION ECOLOGY (compulsory), (2001-2018)
7. TERRESTRIAL PLANTS AND FUNGI (elective), (2002-2019)
8. FRESHWATER ECOSYSTEMS (elective), (2009-)

### **Field courses**

1. Participation in the two day field training of students in forest ecosystems for the course Terrestrial Plants and Fungi (2006-2019)
2. Participation in the four day field training of students in lakes for the course Freshwater Ecosystems (elective) (2009-)

### **Dissertation theses**

Co-supervision of 30 undergraduate students during their undergraduate dissertation theses (compulsory) and 2 during their postgraduate dissertation theses (compulsory) (2006-)

### **Preparation of mycological material**

Preparation of mycological material for laboratory courses for the undergraduate courses: Plant Taxonomy and Biosystematics (compulsory), General Ecology (compulsory), Population Ecology (compulsory), Terrestrial Plants and Fungi (elective), Botany (compulsory), Ecology (compulsory), Mycology (elective) (2007-)

### **Participation in committees**

Department of Biology Committee for Laboratory safety protocols (2020-)

Department of Biology Committee for the approval of research protocols (2020-)

Department of Biology Committee for Courses' field training excursions (2016-2020)

## **RESEARCH**

### **Research interests**

- Systematics, phylogeny and ecology of airborne fungi (indoor and outdoor environments)
- Systematics of the genera *Aspergillus* and *Penicillium* with molecular tools
- Development of the ATHUM Culture Collection of Fungi of the NKUA Mycethoteca and its enrichment with new strains from Greek habitats and substrates

### **Participation in research projects**

- "Atmospheric pollen characterization using active remote sensors". Hellenic Foundation for Research and Innovation 2020-2022.
- "Implementation and Sustainability of Microbial Resource Research Infrastructure for 21st Century". INFRADEV-03-2018-2019. H2020-INFRADEV-2018-2020.
- "Recording and evaluation of species of mushrooms", 2013-2015. Under the Operational program "Environment and Sustainable Development 2007-2013", Priority Axis 9 "Protection of Natural Environment and Biodiversity" Act "Protection and Biodiversity Conservation of the National Forest Parnona and Wetland Moustos." Program contractor: National Park Parnona and Wetland Moustos Management.
- "Biodiversity of selected areas of Greece". Special Account of Research Funds, National and Kapodistrian University of Athens, 2013-2014.
- "Ilisia Metropolitan Park-The biodiversity of the University Campus". Special Account of Research Funds, National and Kapodistrian University of Athens, 2010-2012.
- "Integrated microbiological security in a diary plant: Application of modern procedures and techniques for the inspection, measurement and identification of deteriogens and pathogenic microorganisms-Modelling of their behaviour". 3rd Community Support Framework, Operational Program "Competitiveness", 2003-2006.
- "Conservation and development of the ATHUM Culture Collection of the University of Athens". Research Committee, 1993-2009.

### **Research activities**

- Participation in the exhibition "From Science to Technology" for "Horizon 2020" with the exhibit "Unlocking the exploitation potential of microbial resources", DEMOKRITOS Centre for Scientific Research 2014.
- "Identification methods for *Aspergillus* and *Penicillium*: Food safety and public health challenges" workshop. Medical School - Faculty of Biology (30 May - 2 June 2005). Participation in the preparation and practical training.
- Spring Foray of European Mycological Association in Northern Greece (April 2007). International meeting for the collection and study of fungi.
- Scientific meeting «Fungi and Cultural Heritage» (14 April 2008). Postgraduate Programme «Museum Studies». Invited lecture: «Airborne fungi».

## Editorial Board member in journals

Topic Editor in the scientific journal Sustainability

## Reviewer in journals

Invited reviewer in the scientific journals: Environmental Research, International Journal of Environmental Research and Public Health, Journal of Food Science, Microorganisms, Sustainability

## Memberships

International Association for Aerobiology (IAA)

European Mycological Association (EMA)

British Mycological Society (BMS)

Mycological Society of America (MSA)

Society of Mikrobiokosmos

Hellenic Botanical Society

## PUBLICATIONS

### A. Monographs

1. **Pyrri, I.** (2008). Taxonomic and ecological study of airborne fungi in the area of Athens. p. 459. NKUA. (in Greek with English summary) <http://hdl.handle.net/10442/hedi/22695>

### B. Publications in international scientific journals

1. Stamelou M.L., Sperdouli I., **Pyrri I.**, Adamakis I.D., Moustakas M. (2021). Hormetic Responses of Photosystem II Photochemistry in Tomato to *Botrytis cinerea*. Plants 10, 521.
2. **Pyrri I.**, Tripila E., Zalachori A., Chrysopoulou M., Parmakelis A., Kapsanaki-Gotsi, E. (2020). Fungal contaminants of indoor air at the National Library of Greece. Aerobiologia 36(3): 387-400.
3. Stamatelopoulou A., **Pyrri I.**, Asimakopoulos D.N., Maggos T. (2020). Indoor air quality and dustborne biocontaminants in bedrooms of toddlers in Athens, Greece. Building and Environment 173: article 106756.
4. **Pyrri I.**, Zoma A., Barmparetos N., Assimakopoulos M.N., Assimakopoulos V.D., Kapsanaki-Gotsi E. (2020). Impact of a green roof system on indoor fungal aerosol in a primary school in Greece. Science of the Total Environment 719: article 137447.
5. Richardson S.C., Mytilinaios M., Foskinis R., Kyrou C., Papayannis A., **Pyrri I.**, Giannoutsou E., Adamakis I.D. (2019). Bioaerosol detection over Athens, Greece using the laser induced fluorescence technique. Science of the Total Environment 696: article 133906.
6. **Pyrri I.** & Kapsanaki-Gotsi, E. (2017). Functional relations of airborne fungi to meteorological and pollution factors in a Mediterranean urban environment. Fungal Ecology 30: 48-54.
7. Kollia E., **Pyrri I.**, Kapsanaki-Gotsi E., Markaki P. (2016). Ochratoxin A production by *Aspergillus carbonarius*, *Aspergillus ochraceus* and strains of *Aspergillus* section *Nigri* in currants of Greek origin. International Journal of Environmental & Agriculture Research 2(7): 110-120.
8. **Pyrri I.** & Kapsanaki-Gotsi, E. (2015). Evaluation of the fungal aerosol in Athens, Greece, based on spore analysis. Aerobiologia 31(2): 179-190.
9. Markaki P., Tavoulari M., Kanapitsas A., **Pyrri I.**, Kapsanaki-Gotsi E. (2014). Aflatoxin B1 production by *Aspergillus* section *Nigri* strains isolated from Greek dried vine fruits and competition with *Aspergillus parasiticus*. Fresenius Environmental Bulletin 23(8): 1744-1753.
10. Kostarelou P., Kanapitsas A., **Pyrri I.**, Kapsanaki-Gotsi E., Markaki P. (2014). Aflatoxin B1 production by *Aspergillus parasiticus* and strains of *Aspergillus* section *Nigri* in currants of Greek origin. Food Control 43: 121-128.

11. Krimitzas A., **Pyrri I.**, Kouvelis V., Kapsanaki-Gotsi E. & Typas M.A. (2013). A phylogenetic analysis of Greek isolates of *Aspergillus* species based on morphology, nuclear and mitochondrial gene sequences. *BioMed Research International*, vol. 2013, Article ID 260395, 18 pages, 2013. doi:10.1155/2013/260395.
12. **Pyrri I.** & Kapsanaki-Gotsi E. (2012). Diversity and annual fluctuations of culturable airborne fungi in Athens, Greece: a 4-year study. *Aerobiologia* 28: 249-262.
13. **Pyrri I.** & Kapsanaki-Gotsi E. (2007). A comparative study on the airborne fungi in Athens, Greece, by viable and non-viable sampling methods. *Aerobiologia* 23: 3-15.
14. Kapsanaki-Gotsi E., Gonou-Zagou Z., **Pyrri I.**, Kalantzi K., Dikeoulia M. & Gaitis, F. (2007). Evaluation of the performance of two samplers for collecting the fungal bioaerosol in a dairy plant. *European Annals of Allergy and Clinical Immunology* 39(5): 174.
15. **Pyrri I.** & Kapsanaki-Gotsi E. (2007). Diurnal fluctuations of airborne mycobiota in Athens, Greece. *European Annals of Allergy and Clinical Immunology* 39(1): 33.
16. **Pyrri I.** & Kapsanaki-Gotsi E. (2006). A survey on the airborne fungi in Athens, Greece by two complementary methods. *European Annals of Allergy and Clinical Immunology* 38 (9): 318.
17. Kapsanaki-Gotsi E., Gonou-Zagou Z., **Pyrri I.**, Kalantzi K. & Gaitis F. (2006). The Occurrence of Airborne Fungi in a Dairy Plant related to Optimized Hygiene Practices and Ventilation. *European Annals of Allergy and Clinical Immunology* 38(8): 270.
18. Velegraki A., Logotheti M., **Pyrri I.** & Kapsanaki-Gotsi E. (2001). Evaluation of two PCR-based methods in the identification of potentially infectious *Aspergillus*. *Mycoses* 44 (Supp.1): 45.

### C. Publications in International Congresses

1. **Pyrri I.**, Stamatelopoulou A., Pardali D., Maggos T. (2020). Humans' invisible companions in their residences. Abs. 7<sup>th</sup> European Symposium on Aerobiology, 16-20 November, Córdoba, Spain, 87.
2. Richardson S.C., Mytilinaios M., Papayannis A., **Pyrri I.**, Giannoutsou E., Adamakis I.D.S. (2020). Applying LiDAR technology in bioaerosol sensing over Athens, Greece. Abs. 7<sup>th</sup> European Symposium on Aerobiology, 16-20 November, Córdoba, Spain, 209.
3. **Pyrri I.**, Stamatelopoulou A., Pardali D., Maggos T. (2020). Unravelling the indoor air mycobiome of residences in Athens. Abs. 20th International Symposium on Environmental Pollution and its Impact on Life in the Mediterranean Region, 26-27 October 2020, Athens, Greece, 87.
4. Richardson S.C., Mytilinaios M., Papayannis A., **Pyrri I.**, Giannoutsou E., Adamakis I.D.S. (2019). Pollen detection over Athens, Greece using the laser induced Fluorescence multi-spectral lidar technique. Abs. 29th International Laser Radar Conference, 24-28 June 2019, Hefei, China.
5. **Pyrri I.**, Zalachori A., Tripyla E., Kapsanaki E. (2018). The occurrence of airborne fungi in the national library of Greece. Abs. 11<sup>th</sup> International Congress on Aerobiology, Parma, Italy, 70.
6. Richardson S.C., Mytilinaios M., Papayannis A., **Pyrri I.**, Giannoutsou E., Adamakis I.D.S. (2018). Pollen Detection over Athens, Greece using the Laser Induced Fluorescence LidAR Technique. Abs. ELC 2018: European Lidar Conference 2018, KEDEA, July 3-5, Thessaloniki, Greece.
7. Kollia E., **Pyrri I.**, Kapsanaki-Gotsi E., Markaki P. (2017). Ochratoxin A production by four new *Aspergillus* section Nigri strains isolated from currants of Greek origin. Abs. 7th European Food Safety & Standards Conference, Theme: Addressing Current Issues & Fostering Advances in Food Safety, Athens, Greece.
8. Kouvelis V.N., **Pyrri I.**, Krimitzas A., Kapsanaki-Gotsi E., Typas M.A. (2014). Mitochondrial gene analysis combined with nuclear sequences and morphological data provide new insights into phylogenetic affinities within the genus *Aspergillus*. Abs. 10th International Mycological Congress, Bangkok, Thailand, 420.
9. **Pyrri I.**, Kouvelis V.N., Krimitzas A., Kapsanaki-Gotsi E., Typas M.A. (2013). New insights into phylogenetic affinities within the genus *Aspergillus* based on morphological and multi-gene

- sequence analysis Abs. of European Culture Collection Organization (ECCO) 32<sup>nd</sup> Meeting, Athens, Greece, 45-46.
10. Kapsanaki -Gotsi E., Gonou-Zagou Z., **Pyrri I.**, Sergentani A., Angelopoulos A., Delivorias P., Hatzinikolaou D., Fokialakis N., Kouvelis V., Krimitzas A. & Typas M.A. (2012). Exploring fungal diversity in Greece by morphological, biochemical and molecular tools. Abs. of European Culture Collection Organization (ECCO) 31<sup>st</sup> Meeting, Braga, Portugal.
  11. **Pyrri I.** & Kapsanaki-Gotsi E. (2011). Diversity of airborne fungi in Athens and annual variation associated to meteorological factors. Abs. XVI Congress of European Mycologists, Chalkidiki, Greece, 85-86.
  12. Kapsanaki-Gotsi E., Gonou-Zagou Z. & **Pyrri I.** (2011). Fungal diversity in Greece secured in a Culture Collection. Abs. of European Culture Collection Organization (ECCO) 30<sup>th</sup> Meeting, Utrecht.
  13. **Pyrri I.** & Kapsanaki-Gotsi, E. (2007). Evaluation of sampling media for the recovery of airborne fungi. Abs. XV Congress of European Mycologists, St. Petersburg, Russia, 95-96.
  14. **Pyrri I.** & Kapsanaki-Gotsi, E. (2007). Viable and non-viable sampling of airborne fungi in an urban environment. Abs. XV Congress of European Mycologists, St. Petersburg, Russia, 94-95.
  15. **Pyrri I.** & Kapsanaki-Gotsi, E. (2006). A survey on the airborne fungi in Athens, Greece by two complementary methods. Abstracts of the 8<sup>th</sup> International Congress on Aerobiology, p.136, Neuchâtel, Switzerland.
  16. **Pyrri I.** & Kapsanaki-Gotsi, E. (2006). Diurnal fluctuations of airborne mycobiota in Athens, Greece. Abstracts of the 8<sup>th</sup> International Congress on Aerobiology, p.213, Neuchâtel, Switzerland.
  17. Kapsanaki-Gotsi, E., Gonou-Zagou, Z., **Pyrri, I.**, Kalantzi, K. & Gaitis, F. (2006). The Occurrence of Airborne Fungi in a Dairy Plant related to Optimized Hygiene Practices and Ventilation. Abstracts of the 8<sup>th</sup> International Congress on Aerobiology, p.50, Neuchâtel, Switzerland.
  18. Kapsanaki-Gotsi, E., Gonou-Zagou, Z., **Pyrri, I.**, Kalantzi, K., Dikeoulia, M. & Gaitis, F. (2006). Evaluation of the performance of two samplers for collecting the fungal bioaerosol in a dairy plant. Abstracts of the 8<sup>th</sup> International Congress on Aerobiology, p.259, Neuchâtel, Switzerland.
  19. **Pyrri I.** & E. Kapsanaki-Gotsi (2001). Common species of *Cladosporium* isolated in culture from the atmosphere of Athens, Greece. Abstracts of European Culture Collection Organization (ECCO) XX Meeting, p.67, Heraklion.
  20. Velegraki A., M. Logotheti, **I. Pyrri** & E. Kapsanaki-Gotsi (2001). Evaluation of two PCR-based methods in the identification of potentially infectious *Aspergillus*. Proceedings of the 7<sup>th</sup> Congress of the European Confederation of Medical Mycology, p.xxx, Rhodes.
  21. Velegraki A., M. Logotheti, **I. Pyrri** & E. Kapsanaki-Gotsi (2001). Molecular identification of *Aspergillus* by PCR-RFLP and IGS PCR. A taxonomic and epidemiological tool. Abstracts of European Culture Collection Organization (ECCO) XX Meeting, p.69, Heraklion.
  22. Kapsanaki-Gotsi E., Z. Gonou-Zagou & **I. Pyrri** (1997). Airborne fungi in pure culture. Proceedings of the 19<sup>th</sup> Biological Meeting of the Hellenic Society of Biological Sciences and 1<sup>st</sup> Biological Meeting of Balkan Countries, p. 169-170, Thessaloniki, Hellas.

#### **D. Publications in National Congresses**

1. Kourteli M., Kapsanaki-Gotsi E., **Pyrri I.** (2019). Airborne fungi in reading rooms of the National Library of Greece (SNFCC). Abstract book 16<sup>th</sup> National Scientific Congress of the Hellenic Botanical Society, p. 77, Athens.
2. Iliopoulou S., Kapsanaki-Gotsi E., **Pyrri I.** (2019). Airborne fungi in closed bookstacks and collection vaults of the National Library of Greece (SNFCC). Abstract book 16<sup>th</sup> National Scientific Congress of the Hellenic Botanical Society, p. 72, Athens.

3. Trantafyllou M., **Pyrri I.**, Parmakelis A., Gonou-Zagou Z. (2017). Morphological and molecular characterization of *Tricholomopsis* species (Basidiomycota, Agaricales) in Greece. Abstract book 7<sup>th</sup> Congress of the Greek Scientific Society "Mikrobiokosmos", p. 240-241, Athens.
4. Tripyla E., **Pyrri I.**, Kapsanaki-Gotsi E. (2017). A study of airborne fungi in the National Library of Greece. Abstract book 7<sup>th</sup> Congress of the Greek Scientific Society "Mikrobiokosmos", p. 244-245, Athens.
5. Kollia E., **Pyrri I.**, Kapsanaki-Gotsi E., Markaki P. (2015). Production of OTA from strains of *Aspergillus* section *Nigri* in Corinthian currants. (in Greek)
6. Bagouraki P., Velegraki A., **Pyrri I.**, Arabatzis M. & Kapsanaki-Gotsi E. (2015). Diversity of the genus *Fusarium* in the soil. Abstract book 6<sup>th</sup> Congress of the Greek Scientific Society "Mikrobiokosmos", p. 15-16, Athens.
7. Bardani E., **Pyrri I.**, Parmakelis A., Gonou-Zagou Z. (2015). Morphological and molecular characterization of fungicolous fungi in Greece. Abstract book 6<sup>th</sup> Congress of the Greek Scientific Society "Mikrobiokosmos", p. 20-21, Athens.
8. Bardani E., **Pyrri I.**, Parmakelis A. & Gonou-Zagou Z. (2014). Morphological and molecular analyses of mycophilic Ascomycetes of Greece. Abstract book 7<sup>ou</sup> National Congress of the "Hellenic Ecological Society", p. 126, Mytilini. (in Greek)
9. Michou A., **Pyrri I.**, Parmakelis A. & Z. Gonou-Zagou (2013). Morphological and molecular analyses of strains of the mycophilic fungus *Mycogone* in Greece. Abstract book 35<sup>th</sup> National Congress of the "Hellenic Society of Biological Sciences", Nafplio. (in Greek)
10. Kapsanaki-Gotsi E. & **Pyrri I.** (2009). Species of genus *Penicillium* in industrial indoor air. Abstract book 2<sup>nd</sup> National Congress of the Greek Scientific Society "Mikrobiokosmos", p. 28-29, Athens. (in Greek)
11. **Pyrri I.**, Kapsanaki-Gotsi E. (2009). Diversity and fluctuations of the genus *Penicillium* in the atmosphere of Athens. Abstract book 11<sup>th</sup> National Scientific Congress of the Hellenic Botanical Society, p. 138, Athens. (in Greek)
12. **Pyrri I.**, Kapsanaki-Gotsi E. (2008). Airborne fungi in the centre of Athens. Abstract book 1<sup>st</sup> International Congress of the Greek Scientific Society "Mikrobiokosmos", p. 196-198, Athens. (in Greek)
13. **Pyrri I.**, Kapsanaki-Gotsi E. (2000). Study of the seasonal fluctuations of airborne fungi in the Athens metropolitan area during the year 1998. Abstract book 8<sup>th</sup> National Scientific Congress of the Hellenic Botanical Society, p. 364-367, Patra. (in Greek)
14. Kapsanaki-Gotsi E. & **Pyrri I.** (1998). Seasonal variation of airborne fungi in the Athens metropolitan area during the period 1994-95. Abstract book 7<sup>th</sup> National Scientific Congress of the Hellenic Botanical Society, p. 215-218, Alexandroupoli. (in Greek)