PERSONAL INFORMATION

Davide Ferrero

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Sex Male | Date of birth 22/03/1996 | Nationality Italian

JOB APPLIED FOR
POSITION
PREFERRED JOB
STUDIES APPLIED FOR

Applied research in fungal biotechnology (isolation, identification, fermentation and biochemical analyses)

WORK EXPERIENCE

02/2022 – 10/2022

Research Grant

Mycotheca Universitatis Taurinensis, Biology dept. | University of Torino | Turin, IT

- Isolation of fungal strains from marine sediments characterised by different levels of anthropic impact using growth media with different degrees of oligotrophy and a polyphasic approach combining morphological and molecular analyses
- Screening of the degradative performances of potential bioplastic-degrading fungi
- Optimization of the fermentation parameters of a SLF, in order to revalue an industrial by-product and obtain an high protein content biomass, in collaboration with an Italian company
- Ethyl acetate extraction of the nonpolar fraction of cultural broths of fungi grown in SLF, in collaboration with a Swiss company

Business or sector Fungal fermentation, extracts production, biochemistry, mycology

03/2021 – 07/2021

Research Intern

Biochemistry dept. | National University of Ireland, Galway, IE

- Evaluation of fungal strains oxidative capabilities, by means of culturomic and biochemical approaches

Business or sector Biochemistry, Bioremediation

09/2020 – 11/2020

Intern

Mycotheca Universitatis Taurinensis, Biology dept. | University of Torino | Turin, IT

- Fungal isolation, DNA extraction and morphological/molecular identification

Business or sector Molecular biology, Mycology, Ecology

11/2017 – 02/2018

Intern

Biology dept. | University of Torino | Turin, IT

- Estimation of arbuscular mycorrhizal fungi colonisation via Trouvelot assay, protein and nucleic acids quantification with Nanodrop and UV-VIS spectrophotometer

Business or sector Mycology, Microscopy

EDUCATION AND TRAINING

11/2022 – 10/2025

PhD student in Biological Sciences and Applied Biotechnologies

Department of Life Science and Systems Biology | University of Torino | Turin, IT

- Optimization of the fermentation parameters of a SmF, in order to revalue an industrial by-product and obtain high protein content biomass

Business or sector Fungal fermentation, extracts production, biochemistry, mycology

09/2018 - 11/2021

Master's Degree in Plant Biotechnology

University of Torino | Turin, IT

- Advanced studies in plant biology and biotechnologies, with particular focus on the plant and fungi molecular biology, development and secondary metabolites production
- Final grade: 110 cum laude/110
- MSc thesis title: Isolation and identification of fungi from marine sediments with different anthropic impacts and investigation of their bioremediation potential

09/2015 - 07/2018

Bachelor's Degree in Biology

University of Torino | Turin, IT

- Studies in the biological field, with particular focus on the molecular, biochemical and ecological fields
- Final grade: 108/110

09/2010 - 07/2015

High School Diploma

Liceo Scientifico Statale "P. Gobetti" | Turin, IT

- Broad high school level education with focus on scientific subjects
- Final grade: 92/100

PERSONAL SKILLS

Mother tongue(s) Italian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C1	C1	B2
	IELTS Advanced C1 (2020), CEFR C2 (2021)				
French	A2	A2	A2	A2	A1
	Not available				

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user
Common European Framework of Reference for Languages

Communication skills Excellent communication skills developed holding two graduation dissertations, college expositions and a small lecture in the MaFNaP 2021 international conference

Organisational / managerial skills	Project planner: planned and conducted a MSc thesis project lasting one year
Job-related skills	High ability to work in a biological laboratory, particularly in the molecular (environmental DNA extraction and quantification, PCR, gel electrophoresis), mycological (culturomics, bioremediation, solid and submerged state fermentation) and biochemical (ethyl acetate extraction, oxidative assays, DNSA assay) fields
Computer skills	Good command of Microsoft Office™ tools, entry level general bioinformatics
Other skills	SCUBA diving license (Advanced Open Water Diver – Professional Scuba Schools)
Driving licence	B (EU)

ADDITIONAL INFORMATION

Publications

- Florio Furno, M., Poli, A., Ferrero, D., Tardelli, F., Manzini, C., Oliva, M., ... & Prigione, V. (2022). The Culturable Mycobiota of Sediments and Associated Microplastics: From a Harbor to a Marine Protected Area, a Comparative Study. Journal of Fungi, 8(9), 927

Presentations

- 3rd International Conference of the Marine Fungal Natural Products (MaFNaP 2021 webinar) - "Population analysis and potential biodegradative applications of fungi from three differently polluted sites in the Tyrrhenian Sea" - D Ferrero, M Florio Furno, A Zanellati, A Poli, F Spina, V Prigione, C Pretti, MG Tuohy, GC Varese (19-22/07/2021)
- 3rd International Conference of the Marine Fungal Natural Products (MaFNaP 2021 webinar) - "Fungi of plastisphere: the discovery of an unexplored marine biodiversity" – M Florio Furno, D Ferrero, A Poli, V Prigione, C Pretti, GC Varese (19-22/07/2021)
- 116° Congresso della Società Botanica Italiana – "The marine mycobiota as a possible bioresources: the fungal biodiversity associated with microplastics" – M Florio Furno, D Ferrero, A Poli, V Prigione, F Spina, I Perugini, C Pretti, GC Varese (8-10/09/2021)
- 6th International Conference on Microbial Diversity 2021 - Advances in Microbial Diversity – "The Plastisphere: the discovery of an unexplored marine fungal biodiversity" – M Florio Furno, D Ferrero, A Poli, V Prigione, C Pretti, GC Varese (14-15/12/2021)
- IASFB 2022 6th Conference: Interdisciplinary approaches in fish skeletal biology -"The biopotential of marine fungi associated to microplastics as possible source of mineralogenic and osteogenic compounds" - M. Florio Furno, F. Spina, D. Ferrero, A. Carletti, P. Gavaia, G. C. Varese, V. Laizé - (Olhão, Algarve, Portugal. November 9-12)

Projects

Conferences

Seminars

- Capriotti, M. (2020, July 22). *Un Mare di Microplastiche*. Biopills (www.biopills.net)
- Tonon, C (2022, November 15). Sustainable concrete facades and the biofilm challenge: a journey from 'how to avoid biofilms' to 'biofilms wanted' (PhD Program Biological Scienc and Applied Biotechnologies, UNITO)

Honours and awards

Memberships

References