



Gerardo Antonio Stoppiello

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ABOUT ME

"I am an enthusiastic, self-motivated, reliable, and responsible individual with a strong work ethic. I excel in teamwork and am adaptable in challenging situations. I am equally effective working collaboratively or independently. I thrive under pressure and consistently meet strict deadlines."

WORK EXPERIENCE

graduate intern student

Max Planck institute for molecular physiology, Otto Hahn Str. 11. [24/04/2019 – 30/01/2020]

City: Dortmund

Country: Germany

Business or sector: Professional, scientific and technical activities

- I worked on a project called: "Cdc20 assists its catalytic incorporation in the mitotic checkpoint complex". The resulted paper (Valentina Piano, Amal Alex, Patricia Stege, Stefano Maffini, **Gerardo A. Stoppiello**, Pim J. Huis in't Veld, Ingrid Vetter & Andrea Musacchio) has been published in Science journal (**IF=41.85**)

I contributed this paper on the interactions among cdc20 and MAD1 and using various techniques such as:

- cell lines development and maintaining (gene Knock-in cell lines)
- cell lines engineering by DNA transfection (Using SiRNA forming transient gene Knock-out cell lines)
- protein transient transfection
- bacterial transfection
- bacterial cultivation for protein expression
- bacterial plasmidic DNA extraction (mini- and maxi-prep)
- western blot
- vertical gel protein electroforesys
- immunofluoresce assays
- live Imaging assay on cell lines for knock-in expression
- use of fluorescence microscope (Marianas)

Graduate student internship

Genetic Toxicology and Medicinal Chemistry Services,Ltd. [12/2017 – 03/2018]

City: Viterbo

Country: Italy

I was involved in the research programme on creation of nano-microcapsule of lignine and their capping with enzymes in order to create molecular machines for transportation of drugs and for cosmetic use.

Gentoxchem has several corporate purposes, among others:

I) evaluation / testing in silico, in vitro and in vivo toxicity of chemical compounds

II) design of synthetic routes for biologically active products

III) computational chemistry

IV) design, consultancy and formulation patents in the field of pharmaceutical chemistry and biocatalysis

V) cytogenetic analyses

VI) environmental and food quality certification.

undergraduate intern

ENEA IRP [08/2016 – 11/2016]

City: Cesano-Roma

Country: Italy

research of mutations on DNA of neural cells induced by extremely low frequency radiation.

Skills: PCR,real time PCR,DNA Sanger sequencing

PhD abroad experience

University of Graz [15/11/2021 – 15/06/2022]

City: Graz

Country: Austria

Name of unit or department: Departement of Biology

- Lichens morfology identification
- Optical and chemical identification
- TLC
- RNA extraction
- DNA ectraction
- cDNA protocol

EDUCATION AND TRAINING

Master degree in cellular and molecular biology

Università degli studi della Tuscia [11/2016 – 10/2018]

Address: 01100 Viterbo (Italy)

Website: www.unitus.it

Field(s) of study: Natural sciences, mathematics and statistics: *Biology*

Final grade: 110 cum laude – Level in EQF: EQF level 8

Thesis: In vitro evaluation of cytotoxic and genotoxic effects of Di (2-ethylhexyl)-phthalate (DEHP) on European sea bass (*Dicentrarchus labrax*) embryonic cell line

Marine litter is extensively distributed in the marine environment, and plastic debris, of which litter is mostly composed, can be a major source of pollutants. Among them, Di(2-ethylhexyl)-phthalate (DEHP) is the most abundantly used plastic additive, and it has been reported to affect biochemical processes both in humans and wildlife; however, studies on its toxicological effects on marine organisms are still scarce. In this survey, we studied the cytotoxic, genotoxic, and mutagenic effects of DEHP in European sea bass embryonic cell line (DLEC) by applying specific *in vitro* tests. Results showed a significant decrease in cell viability starting at 0.01 mM of DEHP after 24h together with a significant increase in apoptosis and necrosis, morphological changes and cell detachment. Consistently, we detected a moderate increase in DNA strand breaks from 0.02 mM, and a dose-dependent increase in of micronucleus frequency from 0.01 mM, accompanied by a significant inhibition of cell proliferation, which suggested a possible aneugenic effect of this phthalate. Our results demonstrate that *in vitro* exposure to DEHP had a dose-dependent cytotoxic and genotoxic effects in DLEC cell line, encouraging further investigation into its effects in *in vivo* and/or *ex vivo* cell systems of marine organisms..

Bachelor's degree course in Biology

Università degli Studi della Tuscia [09/2013 – 12/2016]

Address: 01100 Viterbo

Website: www.unitus.it

Level in EQF: EQF level 6

Biology, genetics, chemistry, botany, phisics, zoology.

PhD in ecology and environmental management

Università della Tuscia [01/11/2020 – Current]

City: Viterbo

Country: Italy

Website: unitus.it

Field(s) of study: Natural sciences, mathematics and statistics: *Environmental sciences*

Level in EQF: EQF level 8

- NGS (ILLUMINA miseq)
- Implementing the DNA extracion protocol
- Statistical data analisys
- Taxonomical and philogenomics analisys
- Culturomics (Fungi and Bacteria)

LANGUAGE SKILLS

Mother tongue(s): **Italian**

Other language(s):

English

LISTENING C1 READING C2 WRITING C2

SPOKEN PRODUCTION C1 SPOKEN INTERACTION C1

Spanish

LISTENING B2 READING B2 WRITING B1

SPOKEN PRODUCTION B2 SPOKEN INTERACTION B2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

DIGITAL SKILLS

Microsoft Word / Microsoft Excel / Microsoft Powerpoint / Zoom / Social Media / Google Drive / Outlook / Microsoft Office / Organizational and planning skills / Good listener and communicator / Corel (CorelDRAW, Corel VideoStudio)

JOB-RELATED SKILLS

master's thesis

[05/2017 – 06/2018]

During my master experimental thesis research I carried out a laboratory research of 12 months using the following instruments and techniques:

- COMET assay
- trypan blue assay
- clonogenic essay,
- apoptosys and necrosys assay,
- micronucleus assay
- proliferation assay.

Link: <https://www.sciencedirect.com/science/article/abs/pii/S0887233318303953?via=ihub>

PhD related skills

[01/11/2020 – Current]

Laboratory skills:

- DNA extraction from low biodiversity antarctic rocks microorganism
- PCR
- qPCR
- DNA quantification
- Gel electrophoresis
- FITC assay
- Optical microscopy
- Culturomics (Fungi, Bacteria)

Bioinformatic Skills:

- ASVs and OTUs ILLUMINA sequences clustering using AMPTK
- R packages for statistical and biodiversity analysis
- Microeco
- Phyloseq
- MAFFT
- Figtree
- Chromas
- MEGA11
- PAST
- Qgis
- BioEdit
- Prism
- CIPRESS

CONFERENCES AND SEMINARS

PAM international congress 2022

[Potsdam , 09/10/2022 – 14/10/2022]

Poster session

Title: Microbial diversity in ice samples collected in the vicinity of Concordia Base, Antarctica.

XIX Congress of European Mycologists

[Perugia, 04/09/2023 – 08/09/2023]

Oral presentation

Title: Lichen mycobionts and endemism are key drivers for bacterial diversity associated to the thalli

PUBLICATIONS

[In vitro evaluation of cytotoxic and genotoxic effects of Di\(2-ethylhexyl\)-phthalate \(DEHP\) on European sea bass \(*Dicentrarchus labrax*\) embryonic cell line](#)

[2019]

Molino, C., Filippi, S., Stoppiello, G. A., Meschini, R., & Angeletti, D. (2019).

[CDC20 assists its catalytic incorporation in the mitotic checkpoint complex](#)

[2021]

Piano et al. (2021).

[Culture-dependent and amplicon sequencing approaches reveal diversity and distribution of black fungi in Antarctic cryptoendolithic communities](#)

[2021]

Selbmann, L., Stoppiello, G. A., Onofri, S., Stajich, J. E., & Coleine, C. (2021).

[Seasonality Is the Main Determinant of Microbial Diversity Associated to Snow/Ice around Concordia Station on the Antarctic Polar Plateau](#)

[2023]

Stoopiello et al. 2023

MANAGEMENT AND LEADERSHIP SKILLS

Co-supervisor of a master's thesis

Co-supervisor of a master's thesis called: "Analisi della presenza di *Lobaria pulmonaria* nella faggeta vetusta di Soriano nel Cimino". Candidate: Sara Cau

Co-supervisor of a master's thesis called: ""Biodiversità di comunità microbiche associate ai licheni antartici".

Candidate: Luca Pietrangelo

Co-supervisor of a master's thesis called: "Il substrato roccioso come limite per lo sviluppo delle comunità criptoendolitiche antartiche".

Candidate: Daniele Duranti

Co-supervisor of a master's thesis called: "Differenze e similarità tra microrganismi associati a licheni epilittici e criptoendolitici antartici"

Candidate: Elisabetta Belli