europass

SIWAR ABOUDA

Date of birth: [redacted] | **Nationality:** Tunisian | **Phone number:** (+216) 50389824 (Mobile) | **Email address:** siwarabouda697@gmail.com | **Email address:** siwar.abouda@studenti.unime.it | Address: Sousse, Tunisia (Home)

EDUCATION AND TRAINING

24/11/2021 – CURRENT Messina, Italy

PHD STUDENT University of Monastir (Tunisia) & University of Messina (Italy)

The objective of my thesis is to assess the impact of environmental microplastics and benzo[a]pyrene on the marine polychaete *Hediste diversicolor* using environmental exposure scenarios. This is achieved via the chemical analysis of the used contaminants and a set of multiple approaches including histology, cytotoxicity, biochemistry, metabolomy, transcriptomy, and genotoxicity.

Website https://www.um.rnu.tn www.unime.it **Field of study** Ecotoxicology |

Thesis Contribution to the characterization of the toxicity of plastic microparticles / nanoparticles (MP / NP) and benzo[a]pyrene in the seaworm Hediste diversicolor

Supervisor at UNIME: Prof Maria MAISANO

Supervisor at UM: Prof Mohamed BANNI

15/05/2022 – CURRENT Messina, Italy

PHD RESEARCH TRAINEE CHEMICAL, BIOLOGICAL, PHARMACEUTICAL AND ENVIRONMENTAL SCIENCES DEPARTMENT, UNIVERSITY OF MESSINA

- Alcian Blue histochemical reaction
- Immunofluorescence
- Metabolomics
- Transcriptomics

24/11/2021 – 14/05/2022 Sousse, Tunisia

PHD RESEARCH TRAINEE AGROBIODIVERSITY AND ECOTOXICOLOGY RESEARCH LABORATORY, HIGHER INSTITUTE OF AGRONOMY

- Biochemistry
- Cytotoxicity
- Genotoxicity

15/09/2019 – 30/07/2021 Monastir, Tunisia

MASTER IN BIOLOGY AND CELLULAR PHYSIOLOGY Higher institute of biotechnology of Monastir

Merit: Good

Website https://www.isbm.rnu.tn

01/02/2021 – 30/07/2021 Sousse, Tunisia

MASTER FINAL PROJECT TRAINEE AGROBIODIVVERSITY AND ECOTOXICOLOGY RESEARCH LABORATORY, HIGHER INSTITUTE OF AGORONOMY

Thesis: Toxicological impacts of environmental microplastics and benzo[a]pyrene in the seaworm *Hediste diversicolor*

- Experimental work using seaworms as biological model
- Histological analysis on seaworms samples
- Biochemical assays (quantification of oxidative stress biomarkers)
- Cytotoxic and genotoxic assays on coelomic fluid (Lysosomal membrane stability and micronucleus frequency)

15/09/2016 – 30/07/2019 Monastir, Tunisia

BACHELOR IN BIOLOGICAL ANALYSIS AND DIAGNOSIS Higher institute of biotechnology of Monastir

Merit: Very Good

Website https://www.isbm.rnu.tn

01/02/2019 – 09/05/2019 Monastir, Tunisia

BACHELOR FINAL PROJECT TRAINEE RESEARCH UNIT UR17ES30 VIROLOGY & ANTIVIRAL STRATEGIES, HIGHER INSTITUTE OF BIOTECHNOLOGY

Thesis: Clinical and virological study of Rotavirus gastroenteritis

- RNA Extraction
- Retro transcription
- PCR
- Electrophoresis

01/07/2018 – 30/07/2018 Sousse, Tunisia

LABORATORY TRAINEE LABORATORY OF MICROBIOLOGY, HOSPITAL SAHLOUL

Bacteriology: Bacterial plating, antibiogram

01/07/2017 – 30/07/2017 Sousse, Tunisia

LABORATORY TRAINEE LABORATORY OF BIOCHEMISTRY AND HEMATOLOGY, MEDICAL CENTER ELWASSIT

Biochemistry: Spectroscopy

15/09/2012 – 30/05/2016 Sousse, Tunisia

BACCALAUREATE Ali Bourguiba High School

Field of study Mathematics

LANGUAGE SKILLS

Mother tongue(s): **ARABIC**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
FRENCH	C2	C2	C2	C2	C2
ENGLISH	C2	C2	C2	C2	C2
ITALIAN	B2	B2	B1	B1	A2

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

DIGITAL SKILLS

Microsoft Office package: Microsoft Word, Excel, PowerPoint, Access | Zotero Citations Software | GraphPad Prism, GraphPad Software Inc. | Video Conferencing (Zoom, Teams, Skype, Webex) - Advanced | Good Communication and Writing Skills | Google Drive | Team-work oriented | Image J (Laboratory Image Analysis)

ADDITIONAL INFORMATION

CONFERENCES AND SEMINARS

02/11/2023 – 04/11/2023 – Climate Change and Environmental Pollutants: Main Drivers of Biodiversity Decline
Cytotoxicity of environmental microplastics and benzo[a]pyrene in the seaworms Hediste diversicolor

28/10/2023 – 30/10/2023 – 10th International Scientific Days, Tunisian Association of Toxicology
Single and combined effects of environmental microplastics and benzo[a]pyrene in the seaworm Hediste diversicolor

05/06/2023 – 08/06/2023 – 68° Convegno GEI-SIBS Messina
Impact of environmental microplastics and benzo[a]pyrene in the marine polychaeta hediste diversicolor

02/11/2021 – 04/11/2021 – First international forum: Microplastics: From the environment to the human health
Toxicological impacts of environmental microplastics and benzo[a]pyrene in hediste diversicolor

VOLUNTEERING

2021 – CURRENT Higher Institute of Agronomy, Chott Mariem, Sousse
ATEE : Tunisian Association of Ecotoxicology and Ecophysiology Vice President

PUBLICATIONS

2022
Toxicological impact of environmental microplastics and benzo[a]pyrene in the seaworm Hediste diversicolor under environmentally relevant exposure conditions

This article is based on a pioneering study that explores how environmental microplastics and benzo[a]pyrene harm the bioindicator seaworm Hediste diversicolor. It delves into the intricate damage caused, encompassing oxidative stress and neurotransmission impairment, along with cytotoxic and genotoxic repercussions that extend to the coelomic fluid cells.

Link https://doi.org/10.1016/j.envpol.2022.119856

WORKSHOPS & CERTIFICATIONS

11/01/2022 – 12/01/2022
Workshop: Data analysis with SPSS

02/02/2023
Certificate of Italian language level (A1-A2)