

Marla

N i z a C o s t a



ABOUT ME

Passionate Biochemistry Bsc student finding her way through science and living her dream in labs.

Microbiology and Molecular Biology are my passions and I can't wait to discover it more as I am seeking to improve my skills on both fields, and already have some experience in both.

Contact

(351) 924 468 920

E-mail

marlanizacosta@gmail.com

Birth date

28/08/2000

Nationality

Portuguesa

LinkedIn

<https://www.linkedin.com/in/marla-niza-costa/>

ACADEMIC QUALIFICATIONS

2020- present **Bsc Bioquímica**

Universidade Lusófona de Humanidades e Tecnologias

Average: 15 values

EXPERIENCE

ago 2022 **Fellowship of Initiation to Scientific Research (BII) by FCT**

ITQB-UNL, iPlantMicro

Microbiome characterization in wild, desert-adapted legumes.

jul 2022 **Internship**

Plant Molecular Biology, IGC

The Plant Molecular Biology group uses *Arabidopsis thaliana* as a model system to investigate how plants perceive and respond to environmental stress at the molecular level. In particular, focusing on the role of RNA alternative splicing in the regulation of gene expression. At this lab I had the opportunity to work with all the collaborators and do some of their work such as: work with *Arabidopsis thaliana*, microscopy work, cleaning and sterilization of seeds, preparation of growth media and plates, extract plant RNA, synthesize cDNA, GUS gene staining and imaging in transgenic plants and plant phenotyping.

Won this one week internship on the CoLife-Hackaton 2022 (1st place prize).

ago 2021 **Summer Internship**

ITQB-UNL, iPlantMicro

The iPlantMicro lab main objectives are identify the relationship between plant responses to environmental stresses and their associated microbiomes, identify the signaling pathways necessary for beneficial relationships and their regulatory mechanisms, and apply the signaling models to new formula in biofertilizer and biocontroller products in order to enhance crops development and production. At this lab I had the opportunity to help to develop a project on cross-resistance by transferring xerotolerant beneficial bacteria from local drought-resistant leguminous plants to commercial leguminous as lentil or common bean, by doing plant and several tests such as: auxins production, phosphate solubilization, siderophores production, N₂ fixation, ACC deaminase, HCN production, biofilm production, motility, etc.

MEETINGS/COMMUNICATIONS

out 2022 **Poster**

Entitled LegumeBiome-Drought Project: Screening of potential plant drought-tolerance enhancers of wild, desert-adapted legumes at BeMiPlant congress.

oct 2021 **Flash Poster Communication**

Entitle Macro and micronutrients characterization of two different varieties of grape pomace: Arinto e Touriga Nacional at XXI Congresso Nacional de Bioquímica.

RECOGNITIONS AND AWARDS

set 2019 **CoLife Hackaton-Future Food Challenge**

Member of the winning team of the 1st CoLife Hackaton by presenting our pitch on "Crops growth with seawater using bacteria".

LANGUAGES

English Fluent

Portuguese Native

LAB SKILLS

- Basic Microbiology
- Isolation
- Identification and preservation methods
- Biochemical characterization
- Use of some materials such as spectrophotometer, ph-meter, PCR.
- Media preparing
- Sterilization of material

PUBLICATIONS/PEER REVIEWS

dec 2022 **Manuscript ID:** biology-2078163

Type of manuscript: Article

Title: Geographically disperse, cultivable seed-associated microbiota in forage plants of alfalfa (*Medicago sativa* L.) and pitch clover (*Bituminaria bituminosa* (L.) C.H.Stirt.): characterization of potential biotreatments based on beneficial inherited population

Authors: Marla Niza Costa, Ana Sofia Rodrigues-dos Santos, Inês Rebelo-Romão, María Victoria Ferrer, Cristina Sequero López, Juan Ignacio Vílchez

VOLUNTEERING

april 2022 **Volunteer**

I helped oversee the Biochemistry exam of the Portuguese Biology Olympiad.

out 2021 **Volunteer**

Raising food and other supplies for animal.

set 2019 **Coordinator**

Cleaning the public streets of Quinta do Conde, with the objective of removing as much trash as possible.

CERTIFICATES

jan 2022 **Epigenetics in Development and Heredity**

Plataforma NAU

jan 2022 **Infection Prevention and Antibiotic Resistance**

Plataforma NAU

jan 2022 **Safe and Responsible Use of Medication**

Plataforma NAU

Jul 2021 **Participation Certificate**

Summer Science at ITQB-UNL.