Zouhair Mariam

europass

About me: My primary aspiration in life is to acquire a wide range-knowledge and be able to use it as a tool to create usefull and innovative technologies specifically focused on solving real challenges of our times. From the very beginning of my educational formation I have always showed interest in working in a multidisciplinary environment , thus Biotechnology seemed the right field to reconcile my many interests in biochemistry, medicine, molecular biology, physics, engineering and bioinformatics. I believe that further progress in science is bound to a better communication and improved interface between traditional and emerging disciplines and I wish to be part of this fundamental process.
I would describe myself as committed, passionate, pragmatic and hard-working.

SKILLS AND LANGUAGES

- Protein engineering
- Tissue engineering (skeletal muscle)
- Working in a multidisciplinary team

Italian
Arabic
English
Spanish
French

Software : Office, Pnt, Outlook, Photoshop, PyMOL, Molegro virtual docker.
Databases: Genescan, Genemania, Blast, Dotlet, and others
Programming languages: Basics of Python, basics of R,

EDUCATION AND INTERNSHIPS

2021 - current
Italy, Rome

PHD STUDENT IN MORPHOGENESIS AND TISSUE-ENGINEERING

School of Doctorate in Biology and Molecular Medicine
Sapienza University of Rome
Title of my PhD thesis :
Mimicking pathological conditions of skeletal muscle in vitro using 3D engineered model
Main skills aquired in the first year of PhD:
- Development of 3D models mimicking muscle aging and cancer-associated cachexia and Muscular Distrophy (flow cytometry, AFM, RNA-seq, 3D Microscopy Imaging)

2019 - 2021
Italy, Rome

MASTER IN MEDICAL BIOTECHNOLOGY (BIOENGINEERING PROFILE)

Sapienza University of Rome
Graduation grade : 110 cum laude /110
Title of my master thesis :
The X-MET as an in vitro model to study the patho-physiological conditions of skeletal muscle
Main skills aquired in the 2 years internship at prof. Musarò's Lab:
- Skeletal muscle primary culture (mice)
- Skeletal muscle tissue engineering

2015 - 2018
Italy, Rome

BACHELOR IN BIOTECHNOLOGY

Sapienza University of Rome
Graduation grade : 108/110
Title of my bachelor thesis:
Folding and binding mechanism of the SH2 N-terminal domain of the SHP2 protein
Main skills aquired in the 6 months internship at prof. Gianni's Lab :
- Protein engineering
- Production of recombinant proteins (in E.Coli)
- Folding and binding kinetics experiments (Stopped-flow citometry , FRET, Temperature Jump method)
- Phi Value Analysis

2010 - 2015
Italy, Bracciano

SCIENTIFIC HIGH SCHOOL DIPLOMA

"Ignazio Vian" scientific state high school

Graduation grade: 100/100

Title of my high school thesis:

Aging: the modern fear

WORKING EXPERIENCE

2020-2021
Italy- Rome

TRANSLATOR AND UNIVERSITY TUTOR

Sapienza University of Rome

Main tasks:
- Welcoming foreign students
- Informative tutoring
- Translation of informative materials

VOLUNTEERING

2011 - 2017
Italy, Anguillara Sabazia

ITALIAN RED CROSS

Croce Rossa Italiana Comitato Sabatino

Main tasks:
- Raising awareness in new generations of sensible issues.
- Elderly assistance.
- Assistance to blood donation organizations

2022 - current
Italy- Rome

CIVIS ALLIANCE

-Cultural ambassador for Sapienza University

MOBILITY EXPERIENCE

Civis School ***"AFM BioMed Summer School 2022"***

Main topics addressed
- AFM imaging
- Multiparametric imaging
- State-of-the-art AFM development
- Image processing and force curve analysis

I hereby authorize the use of my personal data in accordance to the GDPR 679/16 – "European regulation on the protection of personal data"