Curriculum Vitae Zemzem Firas

Personal data

Birth	:	13/10/1998
Nationality	:	Tunisian
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Researchgate	:	researchgate.net/profile/Firas-Zemzem
ORCID	:	https://orcid.org/0009-0004-7791-6364
Portfolio	:	https://zemzemfiras1.github.io/Portfolio/
Langues	:	Arabic, French, English
Note	:	Limb-girdle muscular dystrophy type 2A (LGMD2A)

Diploma

Currently : PhD student,
Laboratory of Cytogenetics, Molecular Genetics and Biology of Reproduction CHU Farhat Hached Sousse, Higher institute of Biotechnology of Monastir, University of Monastir, Tunisia

2020-2022 : Master Degree in Genetic, Biodiversity & Valorisation
Higher Institute of Biotechnology of Monastir, Tunisia

2017-2020 : Bachelor's Degree in fundamental life science : Molecular and Cellular Biology
Higher Institute of Biotechnology of Monastir, Tunisia

2017 : Post High School Technical Degree (Experimental Sciences)

Scientific research

Foddha H, Seo GH, Lee H, **Zemzem F**, Khelil AH, et al. (2020) Exome sequencing reveals a homozygous frameshift variant in CAPN3 in a Tunisian patient with a neuromuscular disorder. Ann Mol Genet Med 6(1): 001-004. DOI:https://dx.doi.org/10.17352/amgm.00001

Professional experience

2024 : Awarded Second place in African Society for Bioinformatics and Computational Biology Omics Codeathon April 2024
Developing an open-source, interactive Shiny dashboard tailored to both clinicians and patients aiming to facilitate Data finding and reporting.
https://github.com/omicscodeathon/rareinsight

2023 : Participation at ASBCB Omics Codeathon – October 2023
        Prediction of novel antimicrobial resistant genes in
Acetinobacter baumannii using Machine Learning, Homology Modelling
and Molecular Docking

https://www.asbcb.org/event/codeathon/asbcb-omics-codeathon-october-2023

**2022 : Master's subject : Analysis of the effect of mutations on
protein's stability using bioinformatic tools**
        Predicting the effect of mutations using classic predictive
        tools
        Simulating native and mutant proteins by molecular dynamics
        using GROMACS

Competences
   - Redaction of reports
   - Bibliography for scientific reports
   - Use of : Windows, Linux
   - Data Bank used : NCBI, GenBank, Refseq, OMIM, Uniprot, PDB,
     STRING, PhosphoSitePlus ...
   - Software used : GROMACS, PYMOL, VMD, USCF CHIMERA, BIOVIA
     DSV, AutoDock Vina, Avogadro ...
   - Software used : Microsoft word, Microsoft excel, Microsoft
     powerpoint, LibreOffice Writer
   - Language : Python, R, Bash
   - Nextlow
   - NGS Analysis

Training & Workshops
2025 :   « Genomics for Educators - Wellcome connecting science »
                « Train the Trainer- Design Genomics and bioinformatics
                Training - Wellcome connecting scien»
                « Gene Therapy, Towards a new era of medicine»
                « Policy Advocacy in Genetics and Genomics- Pan-African
                PGS Education and Research Initiative PAPERI »
                « Genomics our way - an introduction to Genomics
                Research with indigenous australians online course»
                « Genetic Counselling workshop - Human Genome Meeting »

2024 :   « Advancing north African bioeconomy through
                biodiversity genomics - African BioGenome Project »
                « In-Silico Drug Design and Repurposing for Rare
                Diseases workshop - IPT Tunisia »
                « Data sharing and databases Workshop-TSHG »
                « Attendance in the 1st Congress of the Tunisian Society

of Human Genomics-TSHG »
« The Next Generation Sequencing Competence Network Summer School »
« the eLwazi - Open Data Science Platform (eLwazi-ODSP) Research Data Management Course »
« Accepted in arabs Neuroscience Course »
« Interpreting Genomics Variation course-future Learn »
« Fundamentals of Data Science in Precision medicine and cloud computing- Stanford Medicine »
« Being a Nextflow Ambassador »
« Genomics science and data careers with wellcome sanger institute »
« Introduction to functional Genomics -Jackson Lab »
« 36th Course on Clinical Genomics and NGS organized by ESHG »
« Second place in African Society for Bioinformatics and Computational Biology Omics Codeathon April 2024 »
« Participation in the Malaysia-Japan Bilateral workshop on BioInformatics and Bioressourrces. »
« Analysis and interpretation of ngs data in Clinics 4 weeks training »
« The era of genetically modified humans (gene therapy and its applications)workshop»
« Attended the International Parkinson's Conference (Parkinson's-2024 »
« Member of Tunisian Society of Human Genomics - TSHG »
« Member of DINS-SOCIO GENOMICS Federated Research Project »
« 2nd Saudi Rare Disease Summit »
« Seminar "Biotools Nanopore Day »

2023 :   « Python Essentials 1 Course Cisco Networking Academy »
« 2023 Genome Sequencing Bioinformatics Course | H3ABioNet | Wellcome connecting Science »
« Bioinformatics For Biologists : An Introduction To Linux, Bash Scripting, And R »
« Python For DataScience | Great Learning »
« Bioinformatics For Biologists : Analysing And Interpreting Genomics Datasets | Wellcome Connecting Science »
« A practical Guide For Sars-Cov-2 Whole Genome Sequencing | Wellcome Connecting Science And Cog-Train »

2022 :   « Pitching d'un projet »

2021 :   « In Silico Molecular Docking »
« Next Generation Sequencing »

2020 :   « Phylogénie Workshop »

2019 :   Debate competition « OGM pour ou contre »
               « Du BMC au Pitching »
               « Practical molecular graphics and visualization »
               « Practical comparative structural modeling »
               Training in The laboratory LR11ES41 : Génétique,
               Biodiversité et Valorisation des Bioressources