Prot. n. 0083227 del 01/07/2024 - [UOR: DIP-106 - Classif. III/13]

Curriculum vitae

ASSEL AMINE

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RESEARCH AREA	Chemistry: synthesis, Boron chemistry, Chemosensor, Fluorescent Probe, NMR, Catalysis, Chromatography, Spectroscopy, bioimaging, in vitro testing, Drug Design, Molecular docking, <i>In silico</i> analysis
EDUCATION and INTERNSHIP	
December 2023	Phd organic chemistry (Thesis defense: 23 December 2023)
	Laboratory of Heterocyclic Chemistry, Natural Products and Reactivity (LR11ES39), Team: Medicinal Chemistry and Natural Products- Faculty of Science of Monastir /University of Monastir, Monastir, Tunisia, Thesis title: <i>Design, synthesis of 4-hydroxycoumarin derivatives for</i> <i>therapeutic and photophysical application</i> . Supervisor: Prof Hichem Ben Jannet.
January – June 2019	Research Agent
	The Environmental Analysis and Processes Research Unit, Higher Institute of Applied Sciences and Technology Mahdia, Tunisia
December 2018	Research Master degree in Organic chemistry
	Master research internship: Electrochemistry and Environment Laboratory
	(LEE), ENIS-SFAX
	Sfax National Engineering School, Tunisia
	Thesis title: Comparative study, characterization and quality control of quality of
	Tunisian and European olive oils: Analytical and chemometric approach. Supervisor:
	Prof Bouaziz Mohamed
September 2013– june 2016	Licence in chemistry (Bsc)
	Faculty of Science of Sfax, University of Sfax, Tunisia
	Chemistry

Research Internship	
November 2022-March 2023	Doctoral Erasmus Research Internship
	Photochemistry Group: Department of Chemical, Biological,
	Pharmaceutical and Environmental Sciences University of Messina,
	Messina, Italy
	 Design and synthesis of Boron-Coumarin complexes

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	 Photophysical testing and application Supervision : Pr Sebastiano Campagna, Pr Fausto Punteriero
September – December 2021	Doctoral Research Internship (PHD)
	URCOM: ORGANIC AND MACROMOLECULAR CHEMISTRY RESEARCH UNIT,
	le Havre University, France
	 Assessment of Ruthenium Catalysis in the Chemistry of N-Acyliminium's: Application to the Synthesis of Substances for Pharmaceutical Interest.
	Supervison : Pr Othman Mohamed
June 2014 – to July 2014	Summer Internship
	 Toxicology and Environment Laboratory, CAMUR Tunis, Tunisia Optimization of an HPLC chromatographic method for detecting patulin in apple juice. Determination of cholinesterases in organophosphate poisoning in biomarkers (snails); by visible UV spectrophotometer
Research Experience September 2020	Poster communication
September 2020	EFMC-YMCS Virtual Event 2020: Virtual 7th EFMC Young Medicinal Chemists' Symposium, Belguim • <i>IN SILICO</i> ANALYSIS OF NEWLY SYNTHESIZED 4-HYDROXYCOUMARIN- CARBONITRILE DERIVATIVES AS POTENTIALS INHIBITORS OF ACETYLCHOLINESTERASE"
April 2023	Poster communication The 15 ^o Encontro Nacional de Química Física - in Online, from 4 th to
	5th April 2023, Portugal
	 Coumarin derived Schiff's base as a colorimetric probe for selective detection of Cu2+ ions"
May 2023	Oral communication
	8th Organic Chemistry Conference and 4th Science & Engineering of Polymeric materials, Tunisia
	 Design and synthesis of novel sulfamate linked 4-hydroxycoumarin hybrids Biological and computational insights into the anti-α-amylase potential
May 2023	Poster presentation
	Journée des doctorants, Monastir-Tunisia
	 Development of Schiff base linked 4-hydroxycoumarin: chemosensor for colorimetric detection of metal ions
	Publications
	 A molecular chemodosimeter to probe "closed shell" ions in kidney cells (DOI: 10.1039/d3ob01408h) Amine Assel, Meagan M Stanley, Rashid Mia, Besma Boulila, Peter J Cragg, Iyanuoluwani Owolabie, Meredith Hetrick, Alex Flynt, Karl J Wallace, Hichem Ben Jannet
	- Design, Synthesis and biological evaluation of novel benzopyran derivatives as potential α -amylase inhibitors: An Investigation by Experimental and

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Computational Studies (10.1016/j.molstruc.2022.134227).Amel Hajlaoui, Amine Assel, Houda Lazrag, Jalloul Bouajila, Abdel Halim Harrath, Lamjed Mansour, Hichem Ben Jannet, Anis Romdhane.

- Synthesis of new sulfamate conjugates as potent anti alpha amylase agents: in vitro approach coupled with molecular docking, DFT calculation and cheminformatics prediction (10.1016/j.molstruc.2022.134020) Amine Assel, Amel Hajlaoui; Houda Lazrag; Marwa Manachou; Anis Romdhane; Jamil Kraiem; Hichem Ben Jannet
- Glioblastoma-specific anticancer activity of newly synthetized 3,5-disubstituted isoxazole and 1,4-disubstituted triazole-linked tyrosol conjugates. Aissa I, Abdelkafi-Koubaa Z, Chouaïb K, Jalouli M, Assel A, Romdhane A, Harrath AH, Marrakchi N, Ben Jannet H. Bioorg Chem. 2021 Sep;114:105071. (10.1016/j.bioorg.2021.105071)

Scientific Training

June 2014 – July 2014	Faculty of Medicine of Sfax, University of Sfax, Tunisia
	 Biostatistics with R language (chimiométric) – Pr Ahmed Rebai
6-7-8 september 2018	Higher Biotechnology Institute of Sfax, University of Sfax, Tunisia
	 Protein Modeling, Molecular Docking and Drug Design-Pr NabilMiled
November 2019	Palais des sciences de Monastir, université de Monastir, Tunisie
	 Molecular docking and drug design – Pr Houcemeddine OTHMAN
July 2020	 Ramaiah Institute of Technology and Department of Pharmaceutical Chemistry, Faculty of Pharmacy, Ramaiah University of Applied Sciences, Bengaluru, Karnataka, India(Online) Docking, QSAR and Molecular Dynamics Docking of organometallic compound
April 2023	Higher Biotechnology Institute of Monastir, University of Monastir, Tunisia
	 Molecular Docking and Drug Design- Dr. Mabrouk Horchani
PERSONAL Skills	
	Communication Skills

Good communication skills gained through my experience as a Tunisian scout and civil association, Leadership (scout leader)

Technical skills

- Good command of analytical instruments:
- NMR: Bruker , HPLC, GC-FID : Agilent, Waters, spectrophotomètry UV-Vis
- Absorption atomic spetrum (Spectrum SAA4000)
- XLSTAT, R software Ms office, CHEMDRAW, Mestrenova
- BIOVIA DSV, AUTODOCK , MOE, GROMACS, NAMD, VMD

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