

Dr. Lekmine Sabrina

Date et lieu de Naissance :

12-11-1994 à Oum El Bouaghi

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Oum El Bouaghi

<https://scholar.google.com/citations?user=PA>

<https://www.researchgate.net/profile/Lekmine-Sabrina>

UNIVERSITÉ:

Université Abbes Laghrou-Khenchela-

GRADE

Maître de conférence B

FACULTÉ

Sciences de la nature et de la vie

DÉPARTEMENT

Biologie Moléculaire et Cellulaire

LANGUAGE

Arabe- Anglais- Français

EDUCATION

Baccalauréat

2013

Sciences de la nature et de la vie

Licence

2016

Sciences Biologiques

Spécialité: Biochimie Appliquée

Université: Larbi ben m'hidi.oum el bouaghi

Master

2018

Sciences Biologiques

Spécialité : Biochimie Appliquée

Thème : L'effet des saponines extraites d'une plante fourragère *Astragalus gombiformis* sur les protozoaires ruminal

Directeur de mémoire: Pr Arhab Rabah

Université: Larbi ben m'hidi.Oum El Bouaghi

Doctorat

2021

Sciences Biologiques

Spécialité: Biochimie Appliquée

Thème: Phytochemical characterization and biological activities of plant extracts.

Directeur de Thèse: Pr. Boussekine Samira

Université: Echahid Cheikh Larbi Tebessi- Tebessa

EXPERTISE

- Bio-informatique
- Génie génétique
- Biologie moléculaire,
- Biotechnologie
- Biochimie structurale et appliquée.
- L'enzymologie
- Les molécules bioactives d'origine eucaryotique.

PROJETS DE RECHERCHE

Projet PRFU:

Evaluation de l'effet antidiabétique cardioprotecteur et anticancéreux des plantes médicinales.

Directeur de projet : Pr. Boussekine Samira

Code projet : D01N01UN120120200001

AFFILIATION AU LABORATOIRE

Laboratoire: Biotechnologie, Eau, Environnement et Santé.

Faculté: Natural and Life Sciences

Université: Abbes Laghrour-Khenchela

Directeur de Laboratoire: Pr. Kenza Kadi

COMPÉTENCES

- Polymerase Chain Reaction
- DNA Gel Electrophoresis
- Polyacrylamide Gel Electrophoresis
- SDS page
- Chimie Médicinale et Pharmaceutique
- Chimie Organique
- Chimie des Produits Naturels
- Phytochimie
- Extraction
- Activités Antioxydantes
- Essai de piégeage des radicaux libres DPPH
- Essai de piégeage des radicaux cationiques ABTS
- Test de capacité antioxydante de réduction du cuivre (CUPRAC)
- Essai de piégeage des radicaux GOR
- Activité de blanchiment de la β -carotène
- Activités Antidiabétiques
- Essai d'inhibition de l' α -amylase
- Essai d'inhibition de l' α -glucosidase
- Activités Anti-Alzheimer
- Activité Anti-tyrosinase
- Essai d'inhibition de la tyrosinase
- Activité Inhibitrice de l'Uréase
- Activité Anti-inflammatoire
- Activité Photoprotectrice
- Effet Cytotoxique
- Test de Létalité sur les Artémies (BST)
- Essai d'Inhibition de l'Hémolyse Oxidative (OxHLIA)
- Évaluation in vitro de l'Activité Antibactérienne
- Études in silico
- Docking Moléculaire
- network pharmacology
- ADMET
- Simulation
- molecular dynamics
- Drug Design....

Publications et activités scientifiques

Les articles scientifiques

- ✓ **Sabrina Lekmine**, Samira Boussekine, Salah Akkal, Antonio Ignacio Martín-García, Ali Boumegoura, Kenza Kadi, Hanene Djeghim, Nawal Mekersi, Samira Bendjedid, Chawki Bensouici, Gema Nieto, 2021. Investigation of Photoprotective, Anti-Inflammatory, Antioxidant Capacities and LC–ESI–MS Phenolic Profile of *Astragalus gombiformis* Pomel, **Foods**, <https://doi.org/10.3390/foods10081937>
- ✓ **Sabrina Lekmine**, Samira Boussekine, Kenza Kadi, Antonio Ignacio Martín-García, Asma Kheddouma, Kamel Nagaz, Chawki Bensouici. (2020). A comparative study on chemical profile and biological activities of aerial parts (stems, flowers, leaves, pods and seeds) of *Astragalus gombiformis*. **Biocatalysis and Agricultural Biotechnology**. (Elsevier)
- ✓ **Sabrina Lekmine**, Samira Bendjedid.; Ouided Benslama, Antonio Ignacio Martín-García. Samira Boussekine, kenza Kadi, salah Akkal, Gema Nieto, Sami, R.; Al-Mushhin, A.A.M.; et al. Ultrasound-Assisted Extraction, LC–MS/MS Analysis, Anticholinesterase, and Antioxidant Activities of Valuable Natural Metabolites from *Astragalus Armatus* Willd.: In Silico Molecular Docking and In Vitro Enzymatic Studies. **Antioxidants** **2022**, *11*, doi:10.3390/antiox11102000.
- ✓ **Sabrina Lekmine**, Ouided Benslama, Kenza Kadi, Antonio Ignacio Martín-García , Mustafa Abdullah Yilmaz , Salah Akkal, Ali Boumegoura, Abdullah S. Alhomida, Mohammad Shamsul Ola and Ahmad Ali. (2023). LC/MS-MS Analysis of Phenolic Compounds in *Hyoscyamus albus* L. Extract: In Vitro Antidiabetic Activity, In Silico Molecular Docking, and In Vivo Investigation against STZ-Induced Diabetic Mice **Pharmaceuticals**. <https://www.researchgate.net/publication/372419501>
- ✓ **Sabrina Lekmine**, Ouided Benslama, Kenza Kadi, Antonio Ignacio Martín-García, Mohammad Shamsul Ola, Mustafa Abdullah Yilmaz, Ahmad Ali.(2024). The therapeutic potential of *Hyoscyamus niger*-derived compounds: Targeting ovarian cancer through antioxidant activity and EGFR tyrosine kinase inhibition. **Journal of King Saud University-Science**. <https://doi.org/10.1016/j.jksus.2024.103103>
- ✓ Bendjedid,samira Lekmine, Sabrina; Tadjine, A.; Djelloul, R.; Bensouici, C. Analysis of Phytochemical Constituents, Antibacterial, Antioxidant, Photoprotective Activities and Cytotoxic Effect of Leaves Extracts and Fractions of Aloe Vera. **Biocatal. Agric. Biotechnol.** 2021, *33*, doi:10.1016/j.bcab.2021.101991.
- ✓ Benslama, Ouided; **Lekmine**, Sabrina; Mansouri, Nadjwa. Phytochemical Constituents of *Astragalus Monspensulanus* and Integrative Analysis for Its Antioxidant, Photoprotective, and Antityrosinase Activities: Experimental and

Computational Investigation. Eur. J Integr. Med. 2023, 60, 102247, doi:10.1016/j.eujim.2023.102247.

- ✓ Nouran M Fahmy , Shaimaa Fayez. Gokhan Zengin , Selami Selvi , Abdullahi Ibrahim Uba , Adriano Mollica , Abdelhakim Bouyahya , Sathish Kumar M Ponniya , Nilofar , **Sabrina Lekmine**, Claudio Ferrante , Omayma A Eldahshan . Chemical exploration of different extracts from Phytolacca americana leaves and their potential utilization for global health problems: in silico and network pharmacology validation.J Biomol Struct Dyn. 2024 Jan 30:1-21. doi: 10.1080/07391102.2024.2308770.
- ✓ Zakaria Triki, Zineb Fergani ,**Sabrina Lekmine**, Hichem Tahraoui ,Abdeltif Amrane,Meriem Zamouche ,Mohammed Kebir,Amin Aymen Assadi 7, Lotfi Khezami and Jie Zhang. Numerical Modelling and Performance Evaluation of Vacuum Membrane Distillation for Energy-Efficient Seawater Desalination: Towards Energy-Efficient Solutions. Water 2023, 15(20), 3612; <https://doi.org/10.3390/w15203612>.
- ✓ Effects of single and combined olive mill wastewater and olive mill pomace on the growth, reproduction, and survival of two earthworm species (Aporrectodea trapezoides, Eisenia fetida), Nawal Mekersi, Kenza Kadi, Silvia Casini, Dalila Addad, Kamel Eddine Bazri, Salah Eddine Marref, **Sabrina Lekmine**, Asma Amari, 2021, Applied Soil Ecology, <https://doi.org/10.1016/j.apsoil.2021.104123>
- ✓ Soil amendment by olive pomace improving soil quality, Nawal Mekersi, Kenza Kadi, Dalila Addad, Asma Amari, Sabrina Lekmine, 2022, International Journal of Natural Resources and Environment, 4 (1), 17-22
- ✓ Evaluation of the effects of short-term amendment with olive mill pomace on some soil properties, Nawal Mekersi, Kenza Kadi, Silvia Casini, Dalila Addad, Asma Amari, Sabrina Lekmine, 2022, Soil Science Annual, 73 (2), 1-6
- ✓ Effects of olive mill wastewater and olive mill pomace on soil physicochemical properties and soil polyphenols, Nawal Mekersi, Dalila Addad, Kenza Kadi, Silvia Casini, Davorka K Hackenberger, Abdecharif Boumaza, **Sabrina Lekmine**, 2023, Journal of Material Cycles and Waste Management, <https://doi.org/10.1007/s10163-023-01618-7>
- ✓ Samira Boussekine , Sabrina Lekmine , Salim Gasmi , Abdelkarim Benkhedir , Hichem Saker , Abdelkrim Lidoughi. 1 protective effect of selenium on diabetic nephropathy in wistar rats . J Microbiol Biotech Food Sci / Boussekine et al. 20xx : x (x) e5960. <https://doi.org/10.55251/jmbfs.5960>
- ✓ **Kadi K**, Mrah R, Hamli S, **Lekmine Sabrina**, Dib D, Addad D, Boukeria S, Gueboudji Z, Hafsaoui I. (2020). Evaluation of the anticoagulant activity of margins

from olives extraction in the Khenchela region. *J. Fundam. Appl. Sci.*, 12(2), 634-649.

LISTE DES LIVRES

Lekmine Sabrina. Natural Desert Sources of Bioactive Compounds Broché – 26 octobre 2022. ISBN 9994983407