

# Dr. BOUTARFA Soumia

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Khenchela –Algeria.

## LANGUAGE

- Arabic: mother language
- French: Proficient in reading, speaking and writing
- English: C2 level
- Spanish: B2 level

## Accounts

<https://scholar.google.com/citations?user=30GJbKIAAAA&hl=fr>

<https://www.researchgate.net/profile/Soumia-Boutarfa>

## Education

- June 2022: Diploma of "Doctorate" Field: Microbiology. Oum El Bouagui University, Algeria.
- June 2013: Diploma of "magister" Field: Microbiology. Option: Microbiology of aquatic systems, Khenchela University, Algeria.
- June 2009: D.E.S (Diploma of Higher Studies) in molecular and cellular Biology, Option: Biochemistry (Khenchela University)
- June 2005: Bachelor in Experimental Sciences, Khenchela, Algeria.

## Experience

### 1. Research Projects

- 2021- present: Biotechnological valorization of plant and animal resources under the Algerian Training-University Research Projects program.
- 2022- present: Member of Microbiology group. Laboratory of Biotechnology, Water, Environment and Health, Khenchela University, Algeria.
- 2013-2022- Member of Laboratory of Biomolecules and Plant Breeding, University of Larbi Ben M'hidi, Oum El Bouaghi, Algeria.

### 2. Research internship

- 2018-2020: Long term internship at the Algology laboratory, Murcia University- Spain, 18 months.
- 2018: Short term internship at the Limnology and Phycology Laboratory, Trentino, Nature and Science Museum-Italy. 15 days.
- 2016: Short term internship at the Microbiology Laboratory, Barcelona University- Spain, 15 days.

### 3. Pedagogical and administrative activities

### 3.1. Professional experience

- June 2014- present: Permanent associate professor (Level B), Faculty of natural and life sciences, Khenchela University- Algeria.

### 3.2. Positions held

1. 2022\_present. Chief head of the microbiology license training team. Faculty of Natural and Life Sciences. Khenchela University,

2. 2016\_2019. Member of the Scientific Committee of the Department of Molecular and Cellular Biology. Faculty of Natural and Life Sciences. Khenchela University,

3. 2018\_ 2021. Member of the disciplinary council of Faculty of Natural and Life Sciences. Khenchela University,

4. 2016\_2019. Member of the disciplinary council of the molecular and cellular biology department. Faculty of Natural and Life Sciences. Khenchela University,

5. 2016\_2018. Head of department in charge of teaching. Faculty of Natural and Life Sciences. Khenchela Universit

**4. Graduate student supervision:** Masters Theses (12), Bachelors (4).

**-Graduate committee member or second reader:** Masters Theses (36), Bachelors (6).

### Published papers

1. Sánchez-Parra, E, Boutarfa Soumia, Aboal Marina. Are Cyanotoxins the Only Toxic Compound Potentially Present in Microalgae Supplements? Results from a Study of Ecological and Non-Ecological Products. *Toxins*, 2020. <https://doi.org/10.3390/toxins12090552>

2. Soumia Boutarfa , Mohammed Mourad Senoussi, Daniel Gonzalez-Silvera , José Ángel López-Jiménez and Marina Aboal. The Green Microalga *Coelastrella thermophila* var. *globulina* (Scenedesmaceae, Chlorophyta) Isolated from an Algerian Hot Spring as a Potential Source of Fatty Acids. *Life*, 2022. <https://www.mdpi.com/2075-1729/12/4/560>

3. Soumia Boutarfa , Mohammed Mourad Senoussi, Daniel Gonzalez-Silvera , José Ángel López-Jiménez and Marina Aboal. The Green Microalga *Coelastrella thermophila* var. *globulina* (Scenedesmaceae, Chlorophyta) Isolated from an Algerian Hot Spring as a Potential Source of Fatty Acids. Fatty acids profile of *Mastigocladus laminosus* Cohn ex Kichner isolated from Algerian hot springs as a biofuel feedstock. *Biocatalysis and Agricultural Biotechnology*, 2022. <https://doi.org/10.1016/j.bcab.2022.102373>

### Journals Reviewer

1. Scientific reports journal.

### Seminar and conferences

**1. Technical committee member**

## **1.1. Editorial board**

1. 2<sup>nd</sup> National Seminar on Biotechnology and Microbial Biodiversity. 06 November, 2023. Khenchela University. Algeria.
2. The First International Webinar on: Promotion and Exploitation of Plants of Ecological and Economic Interest (15 and 16 March 2023 at Khenchela University).
3. 1<sup>st</sup> National Seminar on Biotechnology and Microbial Biodiversity. October 26-27, 2022 - Faculty of Natural and Life Sciences - Abbes Laghrour Khenchela University.

## **1.2. Reviewer**

1. 1<sup>st</sup> national symposium on water, health and environment. 25 september 2023, Khenchela University- Algeria.
2. 2<sup>nd</sup> National Conference on Materials Sciences and Engineering (MSE'2023). 12-13December, 2023. Meghnia University- Algeria.
3. 2<sup>nd</sup> National Seminar on Biotechnology and Microbial Biodiversity. 06 November, 2023. Khenchela University- Algeria.
4. 1<sup>st</sup> National Conference on Materials Sciences and Engineering (MSE'22) 28-29 June 2022. Khenchela University-Algeria.

## **2. Conference papers**

### **2.1. Nationals Conferences**

1. Soumia Boutarfa, Mohammed Mourad Senoussi, Marina Aboal. Biodiversité des cyanobactéries isolées des sources hydrothermales Algériennes. 1st National Seminar on Biotechnology and Microbial Biodiversity. 26-27 October, 2022. Khenchela University - Algeria.

<https://uni-khenchela.com/explore/get.php?p=267&tk=D%C3%A9pliant%20S%C3%A9minaire%20Biotechnologie%20et%20biodiversit%C3%A9%20microbienne.pdf>

2. Soumia Boutarfa, Mohammed Mourad Senoussi, Daniel Gonzalez-Silvera , José Ángel López-Jiménez and Marina Aboal. Les intérêts nutraceutique des microalgues vertes isolées des sources thermales algérienne. Séminaire National Environnement et développement durable des écosystèmes (Gestion et valorisation) des zones semi arides (20-21 Novembre 2022. Tébessa university- Algeria.

3. Soumia Boutarfa, MAYOUF Nozha, BELAABED Zakiya and BELABED Nassira. Antimicrobial activities of *Salvadora persica* (miswak) and *Juglans regia* (Souak) against pathogenic germs. 2<sup>nd</sup> National Seminar on Biotechnology and Microbial Biodiversity. 06 November, 2023. Laghrour Khenchela University - Algeria.

4. Soumia Boutarfa, Identification of algae and cyanobacteria from the Essalihin Khenchela hammam hydrothermal spring. 2nd national seminar, Water, Environment and biodiversity (SNEEB2). 27-28 May, 2014. Khenchela University -Algeria.

## 2.2. Internationals Conferences

1. Soumia Boutarfa , Mayouf Nozha. Activités biologiques des extraits d'algues vertes isolées des sources thermales de l'Est algérien. The First International Webinar on: Promotion and Exploitation of Plants of Ecological and Economic Interest (15 and 16 March 2023 at Khenchela University).
2. Soumia Boutarfa , Mohammed Mourad Senoussi, Daniel Gonzalez-Silvera , José Ángel López-Jiménez and Marina Aboal. Biodiversity of microalgae from Algerian thermal Springs. International seminar on biodiversity in Algeria « Richness and Conservation » ISBA1\_RC in Algeria Oum El-bouaghi : September 25 – 26, 2022. [https://easychair.org/cfp/ISBA\\_1RC](https://easychair.org/cfp/ISBA_1RC)
3. Mayouf Nozha, Soumia Boutarfa. Enquête ethnobotanique à propos des plantes médicinales utilisées dans le traitement traditionnel des maladies inflammatoires à Khenchela. The First International Webinar on: Promotion and Exploitation of Plants of Ecological and Economic Interest (15 and 16 March 2023 at Khenchela University).
4. Soumia Boutarfa , Senoussi Mohammed Mourad, Gonzalez-Silvera Daniel, López-Jiménez José Ángel and Aboal Marina. Thermophilic Microalgae Isolated From Algerian Thermal Springs: Characteristics And Nutraceuticals Interest. Le premier Séminaire International sur la Biotechnologie Verte et Sécurité Alimentaire (Webinaire), 16-17 Novembre 2022, Université Abbès Laghrour –Khenchela□
5. Soumia Boutarfa , Senoussi Mohammed Mourad, Gonzalez-Silvera Daniel, López-Jiménez José Ángel and Aboal Marina. Caracterización de los acidos de linajes de cianobacterias aislados de aguas termaleas de argelia. Scientific session of the Spanish society of phycology, 4 october 2019. Malaga university – Spain.
6. Soumia Boutarfa, Aboal Marina. Fatty acid characterization of cyanobacterial strains isolated from Algerian thermal water. 6º congreso Iberoamericano de cianotoxinas , 3-5 July. Murcia university-Spain. <https://eventos.um.es/33608/detail/2o-congreso-iberoamericano-de-cianotoxinas.html>.
7. Soumia Boutarfa. Microscopic identification of microalgae and cyanobacteria from the Essalihin Khenchela hydrothermal spring. International Seminar on Applied Biotechnologies, agriculture, health and the environment. 17-19 April, 2016. Khenchela University.

### Research area

Microbiology, biochemistry, phytochemistry, biodiversity, thermophilic microorganisms, microalgae, cyanobacteria, benthic diatoms, cyanotoxins, phylogeny, teaching, taxonomy, secondary metabolites, antimicrobial activity.

