



Dr. ZERAIB Azzeddine

**Associate Professor/
Head of agricultural sciences department**



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LANGUAGES

- Arabic
- Frech
- English

GRADE

Associate Professor

FACULTY

Faculty of Natural and Life Sciences

DEPARTEMENT

Department of Agricultural Sciences

UNIVERSITY

Abbes Laghrour University, Khenchela

PROFIL

Last name: ZERAIB **First name:** Azzeddine

Date of birth: 09 Décembre 1979

Birthplace: T'kout, Batna.

Family status: Married and father of three children: two daughters and one son.

I have extensive experience in higher education and scientific research (over 12 years of practice). Throughout my career, I have taught various subjects directly or indirectly related to plants and their metabolites. I am passionate about plants, their identification, and especially chemosystematics using the chemical profile of essential oils. I have participated in several research projects focusing on plant extracts' chemical characterization and biological activities, particularly those endemic to Algeria or North Africa.

EDUCATION

✚ **Baccalaureate in Natural and Life Sciences (June 1998);**

✚ **Diploma in Higher Studies in Biology and Plant Physiology** (2002, Elarbi ben M'hidi University Center, Oum El-Bouaghi);

✚ **Magister in Biology, Option: Valorization of Plant Resources** (Topic: Monograph of the genus *Moricandia* in Eastern Algeria, 2010, Ferhat Abbas University, Sétif);

✚ **Doctorate in Sciences, in Plant Biology** (Topic: Phytochemical and chemosystematic study of *Juniperus thurifera* L. in Algeria, 2016, University of Sétif1);

✚ **Degree of Authorization to Supervise Researches**, speciality : Biological sciences: First session of university authorization (December 2021).

PROFESSIONAL ACTIVITIES

- ✦ **From January 18, 2012 to December 31, 2013:** Assistant professor class (B), Faculty of Life and Nature Sciences, Abbas Laghrour University, Khenchela.
- ✦ **2013-2016 :** Assistant professor class (A), Faculty of Life and Nature Sciences, Abbas Laghrour University, Khenchela,
- ✦ **From November 03, 2016 to December 01, 2021:** Associate Professor Class B, Faculty of Life and Nature Sciences, Abbas Laghrour University, Khenchela.
- ✦ **From December 02, 2021 :** Associate Professor Class B, Faculty of Life and Nature Sciences, Abbas Laghrour University, Khenchela,
- ✦ **Head of agricultural sciences department: 2015-2016.**
- ✦ **Head of agricultural sciences department from Mai 2022.**

EDUCATIONAL ACTIVITIES

TEACHING

Teaching several modules at different levels:

Common trunc: Botany;

License: Valorization of plants of economic interest, Plant biochemistry, Plant ecophysiology, Systematic botany, Biometrics (Biostatistics), ..

Master: Modeling Applied to plant biology, Systematic botany, Phytochemistry, Biodiversity of plant species, Biometrics,...

FRAMING

Supervised dozens of Bachelor's and Master's theses in Biochemistry and Molecular Biology, Applied Biochemistry, Plant Biotechnology, and Plant Breeding and Microbiology from 2010 to date (February 2024).

Doctorate

Co-supervisor of an LMD doctoral thesis entitled: Phytochemical study and biological activities of the species *Salvia balansae* Noë ex Coss.

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RESEARCH ACTIVITIES

PUBLICATIONS

- 1- **Zeraib A.**, Ramdani M., Lougrada T., Chalard P., Figueredo G., **2011**; Chemical Composition and Antimicrobial activity of Essential Oils of *Moricandia arvensis* L. (DC.). *Asian Journal of Plant Sciences*. . 10(6): 342-346.
- 2- M Ramdani, T Lograda, P Chalard, G Figueredo, JC Chalchat and **A Zeraib**, **2012**; Essential Oil Variability in Natural Hahadjerine Population of *Cupressus dupreziana* in Tassili n'Ajjer (Algeria), *Forest Res.* 1(1)..doi. 10.4172/2168-9776.1000101.
- 3- KIRAM A., Ramdani M., **Zeraib A.**, **2013**; Etude phytochimique et de l'activité antibactérienne des huiles essentielles de *Pituranthos scoparius* de la région de Biskra. *Tunis. J. Med. Plants Nat. Prod.* 10(2).
- 4- Ramdani M., Lougrada T., **Zeraib A.**, Chalard P., Figueredo G., Boouchaala M., Zerrar S., **2013**; Characteristics of Essential Oils of *Juniperus phoenicia* from Eastern Algeria, *Global J Res. Med. Plants & Indigen. Med.* Volume 2, Issue 9, 613–623.
- 5- Ramdani M., Lougrada T., Silini H., **Zeraib A.**, Chalard P., Figueredo G., Boouchaala M., Zerrar S., **2013**; Antibacterial of Essential Oils of *Juniperus phoenicia* from Eastern Algeria, *Journal of Applied Pharmaceutical Science* Vol. 3 Issue 11, 022-028.
- 6- **Zeraib A.**, Ramdani M., Boudjedjou L, Chalard P., Figueredo G., **2014**; Characterization and chemosystematics of Algerian thuriferous juniper (*Juniperus thurifera* L.). *Journal of Applied Botany and Food Quality* 87, 249 – 255.
- 7- **Zeraib A.**, Ramdani M., Boudjedjou L, Chalard P., Figueredo G., **2014**; Chemical composition and antibacterial activity of *Juniperus thurifera* L. essential oils. *J. BioSci. Biotech*, 3(2): 147-154.
- 8- Khabtane A., **Zeraib A.**, Aouidane L., Kara Ali W., Belguidoum F.Z., Rahmoune C., **2017**; In vitro evaluation of the anti-microbial activity and the anti-oxidant activity of flavonoids extracted from flowers of the *Tamarix africana* Poir. *Int. J. Biosci.*, 11(1): 417-426.

- 9- Salim LEBBAL, Aissa LEBBAL, **Azzeddine ZERAIB**, 2017; in vitro screening of insecticidal effect of plant extracts on the cowpea aphid *Aphis craccivora*. *AGROFOR International Journal*, 2(2): 75-81.
- 10- Kadi Kenza, Hamli Sofia, **Zeraib Azzeddine**, Yahia Abdelouahab, 2017; Effet antibactérien des extraits de *Thymelaea hirsuta* L. *Revue des Régions Arides* n°43 (3) : 409-419.
- 11- Boudjedjou L., Ramdani M., **Zeraib A.**, Benmeddour T., Fercha A., 2018; Chemical composition and antibacterial activity of berries essential oil of Algerian *Juniperus thurifera* var. (*aurasiaca*) *Pharmaceutical Sciences*, 24 : 240-245.
- 12- Lebbal S., Hedjazi N., Tabti I., Ouarghi H., **Zeraib A.**, 2018; Aphicidal activity of plant extracts against larvae of *Aphis fabae* (Scopoli, 1963) (Hemiptera: Aphididae). *Acta Entomologica Serbica*, Doi: 10.5281/zenodo.1479736.
- 13- Boudjedjou L., Ramdani M., **Zeraib A.**, Benmeddour T., Fercha A., 2019; Chemical composition and biological activities of Algerian *Santolina africana* essential oil. *Scientific African*, doi.org/10.1016/j.sciaf.2019.e0 0 090.
- 14- Bouazza I., Boufennara S., Bensaada M., **Zeraib A.**, Rahal K., Saro C., Ranilla M-J., Lopez S., 2019; In vitro screening of Algerian steppe browses species for digestibility, fermentation parameters and methane mitigation. *Agroforestry Systems*. doi.org/10.1007/s10457-019-00408-1.
- 15- Benmeddour T., **Zeraib A.**, Laouer H., Lahmar Z., 2019; Chemical Composition and Antifungal Activity of the Essential Oils of Algerian *Vitex agnus-castus* and *Artemisia Herba-alba*. *Asian J. Applied Sci.*, 12(3): 114-122. Doi: 10.3923/ajaps.2019.114.122.
- 16- Benhizia T., Lebbal S., Abdenbi Z. et **Zeraib A.**, 2020 ; Action du couvert forestier du pin d'Alep (*Pinus halepensis* Mill.) sur la redistribution des pluies sous un bioclimat Semi-aride de l'Est Algérien. *Annales de l'INRGREF*, 21 : 17-34.
- 17- **Zeraib A.**, Boudjedjou L., Suici N., Benmeddour T., Rahal K., Fercha A. 2021 ; Synergistic effects of *Ruta montana* (Clus.) L. essential oil and antibiotics against some pathogenic bacteria. *Journal of Phytology*, 13: 0101-0107. doi.org/10.25081/jp.2021.v13.7088.

- 18- Benhizia, T., Lebbal, S., **Zeraib, A.**, Hasrouri, B., Messaoudia, Y. A., & Ziani, A. (2023). Evaluation of the aphicidal activity of (Lamiaceae) aqueous extracts against (Aphididae). *Acta Universitatis Sapientiae, Agriculture and Environment*, 15(1), 110-118.
- 19-Lebbal, S., Benhizia, T., Djbaili, S., Bouzidi, C., Ghassir, H., Rahal K., **Zeraib A.** (2023) . "Aphicidal activity screening of plant extracts from *Pistacia lentiscus* (Anacardiaceae)." *Entomologia hellenica*, 32(2): 12-19.
- 20- Benhizia, T., Lebbal, S., & **Zeraib, A.** (2023). Provisions in NPK elements through litterfall in an oak grove of *Quercus ilex* L.(east Algeria). *Algerian Journal of Environmental Science and Technology*, 9(3).
- 21- Lebbal, S., Benhizia, T., Rahal, K., **Zeraib, A.**, Aggoune, R., Maarouf, N., ... & Mhalaine, R. (2023). In vitro screening of the insecticidal activity of *Salvia microphylla* (Lamiaceae). *AgroLife Scientific Journal*, 12(2), 101-106.
- 22- Larba, R, **Zeraib, A.**, & Soltani, N. (2023). Assessment of soil metallic contamination in several sites from Northeast Algeria by use of terrestrial gastropod: *Cornu aspersum* (OF Müller, 1774) (Helicidae). *Biodiversity Journal*, 14 (2): 373–383

COMMUNICATIONS

- 1- Messaoud RAMDANI, Azzeddine **ZERAIB**, Takia LOGRADA, Pierre CHALARD; Genetic variability of *Moricandia arvensis* L. (DC.) The 2nd International Symposium on Medicinal Plants. 3-4 November 2010, Petra, Jordan.
- 2- Messaoud RAMDANI, Takia LOGRADA, Azzeddine **ZERAIB**, Pierre CHALARD, Gille FIGUEREDO; Chemical Composition and Antimicrobial activity of Essential Oils of *Pituranthos scoparius*. The 2nd International Symposium on Medicinal Plants. 3-4 November 2010, Petra, Jordan.
- 3- **ZERAIB** Azzeddine, RAMDANI Messaoud, LOUGRADA Takia, BOUDJEJOU Lamia, CHALARD Pierre, FIGUEREDO Gille; la composition chimique et activité antimicrobienne de l'huile essentielle de *Juniperus thurifera* L. var. *africana* (Maire). Le Premier Séminaire international sur les Forêts et les Steppes des milieux Semi-Arides. 28-30 Novembre 2011, Djelfa –Algérie.
- 4- **Zeraib** A., Boudjedjou L., et Ramdani M., Activité antifongique des huiles essentielles de *Juniperus thurifera* L. var. *africana*. Séminaire national de Biotechnologie, Biodiversité et Développement durable. 27-28 Février 2013, Khenchela, Algérie.

- 5- Boudjedjou L., Ramdani M., **Zeraib** A., Chalard P., Gilles F., composition chimique et activité antibactérienne des huiles essentielles de *Juniperus phoenicea* L. (El-Arâare) de l'Aurès. Séminaire national de Biotechnologie, Biodiversité et Développement durable. 27-28 Février 2013, Khenchela, Algérie.
- 6- **Zeraib** A. et Boudjedjou L., caractérisation de la flore adventice des cultures maraichères de la région de Jijel. Le premier séminaire national; défis agricoles *SNDA*. 8-9 Mai 2013, Khenchela, Algérie.
- 7- Boudjedjou L. et **Zeraib** A., Etude de la flore adventice des cultures de la région de Jijel. Le premier séminaire national; défis agricoles *SNDA*. 8-9 Mai 2013, Khenchela, Algérie.
- 8- **Zeraib** A., Ramdani M., Boudjedjou L., Ben Aradj A., variabilité inter et intra-spécifique de la morphologie du genre *Moricandia* DC. de l'Est Algérien. The 2nd International Congress of Plant Diversity, 27-29 March 2014, Marrakech, Maroc.
- 9- Boudjedjou L., Fenni M., **Zeraib** A., Ben Aradj A., Etude floristique des mauvaises herbes des cultures de la région de Jijel (NE de l'Algérie). The 2nd International Congress of Plant Diversity, 27-29 March 2014, Marrakech, Maroc.
- 10- **Zeraib** A., Ramdani M., Boudjedjou L., Typification de la turifère Algérienne (*Juniperus thurifera* L.). 2ème Séminaire National; Eau, Environnement et Biodiversité. 27-28 Mai 2014, Khenchela, Algérie.
- 11- **Zeraib** A., Boudjedjou L., Chimio-systématique de *Juniperus thurifera* L. en Algérie. 1er Séminaire international sur les biotechnologies appliquées à l'Agronomie, la santé et l'environnement, 17-19 Avril 2016, Khenchela, Algérie.
- 12- Boudjedjou L., Ramdani M., **Zeraib** A., Composition chimique et activités anti oxydante et antibactérienne des huiles essentielles et extraits hydrométhanolique de *Santolina africana* et *Hertia cheirifolia*. 1er Séminaire International sur les biotechnologies appliquées à l'Agronomie, la santé et l'environnement, 17-19 Avril 2016, Khenchela, Algérie.
- 13- Lebbal S., Lebbal A. & Zeraib A., 2017. In-vitro screening of insecticidal effect of plant aqueous extracts on the cowpea aphid *Aphis craccivora*. *AGROFOR International Journal* 2 (2), 75 - 81.
- 14- Rahal K., **Zeraib** A., Boussaa A., Foughalia A., Tahirine M., Hebbache A., Optimization of flavonoïds Extraction and their related antifungal activity from *Pistacia lentiscus* flowers

using response surface methodology. AGROSEM II : La connaissance, la valorisation et la gestion durable des ressources naturelles. 09-10 Décembre 2018, Biskra, Algérie.

- 15- Ouarghi H., Lebbal S., **Zeraib** A., Test of the repulsive and the insecticidal activities of two plants (*Artemisia herba alba* and *Artemisia compestris*) against black bean aphid (*Aphis fabae*). VI Congrès International de Biotechnologie et Valorisation des Bio-Ressources. 20 au 23 Mars 2018 à Tabarka, Tunisie.
- 16- **Zeraib** A., Ghouari M., Laassice H., Boudjedjou L., Lebbal S., Rahal k. Potentiel bioaphicide de l'huile essentielle de *Pituranthos scoparius* sur le puceron noire (*Aphis fabae*). Colloque international Agrosem 2 : La connaissance, la valorisation et la gestion durable des ressources naturelles. 09-10 Décembre 2018, Biskra, Algérie
- 17- Lebbal S., Tabti I., Hedjazi N., Ouarghi H., **Zeraib** A., Repulsive activity of plant aqueous extracts against *Aphis fabae*. Colloque international Agrosem 2 : La connaissance, la valorisation et la gestion durable des ressources naturelles. 09-10 Décembre 2018, Biskra, Algérie
- 18- Lebbal S., Ouarghi H., Boubekour F., **Zeraib** A., Test of the insecticidal activity of four plants against black bean aphid (*Aphis fabae*). XI European Congress of Entomology. Napoli, ITALIE, 2 - 6 juillet 2018. Book of abstracts, p 176.
- 19- Rahal K., **Zeraib** A., Boussaa A., Menasri A., Antifungal Activity From *Pistacia lentescus* flowers Extracts : A design of experiment approach. Séminaire international sur la lutte biologique et intégrée en Algérie. 04 au 06 février 2019, Univ. Mostafa ben boulaïd (Batna2). Algérie.
- 20- Menasri A. **Zeraib** A., Boussaa A., optimisation du rendement du safran (*Crocus sativus*) par l'utilisation des plans d'expériences dans la région de Msara (W. Khenchela). Séminaire international sur la lutte biologique et intégrée en Algérie. 04 au 06 février 2019, Univ. Mostafa ben boulaïd (Batna2). Algérie.
- 21- Bouziane Z., **Zeraib** A., Attalah Z., Doghmane F., Première contribution à la détermination du nombre de chromosomes de l'espèce endémique de l'Algérie « *Salvia balansae* NOË EX Coss ». 1st International Conference on Biodiversity in service of Biotechnologies. ICIBIO, 9, 10 Mars 2020. Centre Universitaire Abelhafid Boussouf. Mila, Algérie.
- 22- Benmeddour T., Moussi A., **Zeraib** A., Evaluation de l'effet répulsif des extraits de trois plantes, *Artemisia herba alba* (Chih), *Juniperus phoenicea* (Ârâar) et *Ononis natrix* (Fizza), sur deux espèces de scorpions (*Androctonus australis* et *Buthus occitanus*),

Séminaire International sur les Sciences Naturelles et de la Vie en ligne (webinaire).
Oran, le 19 et 20 Février 2021. International Journal of Human Settlements.

23- Benmeddour T., **Zeraib A.**, Moussi A., Evaluation of the Repellent Effect of Essential Oils of *Allium sativum* L. (GARLIC) and *Ruta tuberculata* Forssk. (Common Rue), on Two Species of Scorpions (*Androctonus australis* and *Androctonus aeneas*). International Conference on New Trends in Science and Applications (NTSA) 12-13 October 2021. Zoom link : <https://zoom.us/j/95674124561?pwd=cDFSMUQrYVEzdEQ1Rn Vj YkNIMTJwQT09>.

Research projects

Member in a CNEPRU research project (2011/2014). **Project title:** Valorization of Asteraceae endemic to Eastern Algeria: chemical composition and biological activity. **Project code:** F01220110012. (2011/2014)

Member in a PRFU research project (2022/2026). **Project title:** Valorization of some species of the *Salvia* and *Pistacia* genera from Eastern Algeria. **Project code:** D01N01UN400120220001 (2022/2026).

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