

CURRICULUM VITAE



Personal information

- **Personal**
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 - Google Scholar: <https://scholar.google.com/citations?user=zDdNPwUAAA&hl=fr>
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Education

- **Ph.D.'s degree** in 15/07/2017 ; **HDR Chemistry** in 02/12/2021
- **Master's degree** in 10/11/2004
- **Higher education diploma degree (in Chemistry)** in 2000

Functions and Affiliations

- **Associate professor HDR**, in Organic Chemistry «Phytochemistry».

Teaching modules

Atomistics «Chemistry-1»; Thermodynamics & Chemical Kinetics «Chemistry-2»; Spectral analysis; Technics of Physical-Chemical Analysis I (TAPCI); MPS (Purification & Separation Method); Natural substances; Analytical Chemistry; Practical Work TP of Organic Chemistry; TP Chemistry-1 & TP Chemistry-2; TP Analytical Chemistry; TP Surface Chemistry; TP Pharmaceutical Chemistry.

International publications

1. Lamia Aliouche, **Hanène Zater**, Djamila Zama, Ali Bentamene, R Ramdane Seghiri, Ratiba Mekkiou, Samir Benayache, and Fadila Benayache. Flavonoids of *Serratula cichoracea* and their antioxidant activity. **Chemistry of Natural Compounds** 2007; 43(5)618-619. [DOI: 10.1007/s10600-007-0208-9](https://doi.org/10.1007/s10600-007-0208-9).
2. Azzedine Boudjerda, **Hanene Zater**, Samir Benayache, Jean-Claude Chalchat, Javier Gonzalez-Platas, Francisco Leo'n, Ignacio Brouard, Jaime Bermejo, Fadila Benayache, A new guaianolide and other constituents from *Achillea ligustica*. **Biochemical Systematics and Ecology** 2008; 36: 461-466. [Doi:10.1016/j.bse.2007.11.006](https://doi.org/10.1016/j.bse.2007.11.006).

3. Matías López-Rodríguez, Victor P García, **Hanène Zater**, Samir Benayache, Fadila Benayache). Cynaratriol, a sesquiterpene lactone from *Centaurea musimomum*. **Acta Crystallographica Section E** **2009**; E65: o1867-o1868. [doi: 10.1107/S1600536809026701](https://doi.org/10.1107/S1600536809026701).
4. **Hanène Zater**, Azzedine Boudjerda, Joëlle Huet, Sofia Oliveira Ribeiro, Samir Benayache, Véronique Fontaine, Caroline Stévigny, Pierre Duez, Fadila Benayache. Antimicrobial effects of aerial parts from Algerian centaury. **Planta Medica** **2014**; 80 - P1L96nSponsor(s): Soc Med Plant & Nat Prod Res PLANTA MEDICA **2014**; 80(16) : 1442. Meeting Abstract: P1L96 Published: NOV; [Doi:10.1055/s-0034-1394753](https://doi.org/10.1055/s-0034-1394753). (proceeding edited).
5. **Hanène Zater**, Joëlle Huet, Véronique Fontaine, Samir Benayache, Caroline Stévigny, Pierre Duez, Fadila Benayache. Chemical constituents, cytotoxic, antifungal and antimicrobial properties of *Centaurea diluta* Ait. subsp. *algeriensis* (Coss. & Dur.) Maire. **Asian Pacific Journal of Tropical Medicine** **2016**; 9(6): 554 -561. <http://dx.doi.org/10.1016/j.apjtm.2016.04.016>.
6. **Hanène Zater**, Khellaf Rebbas, Sabrina Bicha, Sara Ouissem Bensaid. Discovery of *Centaurea hyalolepis* Boiss. (Asteraceae) in the region of Djelfa. **Acta Botanica Malacitana** **2019**; 44 (67-69). [DOI: http://dx.doi.org/10.24310/abm.v44i0.5334](https://doi.org/10.24310/abm.v44i0.5334).
7. **Hanène Zater**, Khellaf Rebbas, Sabrina Bicha, Sara Ouissem Bensaid. The discovery of the species *Centaurea hyalolepis* Boiss. (Asteraceae) has been added in the site **Cabi** : <https://www.cabi.org/isc/datasheet/113063>.
8. **Hanène Zater**, Lamia Aliouche, Samir Benayache, Jean-Claude Chalchat, Pierre Chalard, Gilles Figueredo, Fadila Benayache. Chemical composition & *in vitro* evaluation of the antibacterial activity of the essential oil of the aerial parts of *Centaurea* (Asteraceae) from the North-East region of Algeria. **Advances in BioResearch** **2021**; 21(6):1-9. [. Doi: 10.15515/abr.0976-4585.12.6.109.](https://doi.org/10.15515/abr.0976-4585.12.6.109)
9. Lamia Aliouche, **Hanène Zater**, Sabrina Bicha, Samir Benayache, Chawki Bensouici, Seghiri Ramdane, Fadila Benayache. *In Vitro* Antioxidant, Anti-Alzheimer and Antidiabetic Activities, Phenolic and Flavonoid Contents of Different Polarity Extracts from *Serratula cichoracea* (DC.) (Asteraceae) Aerial Parts. **Advances in BioResearch** **2022**; 13 (2): 25-35. [Doi: 10.15515/abr.0976-4585.13.2.2535](https://doi.org/10.15515/abr.0976-4585.13.2.2535).

Interests and Qualifications

- **Interests & Qualifications::**
- Organic chemistry and its methods of physical-chemical analysis of natural substances.
- Phytochemical & pharmacological study of the medicinal plants specific to Algeria invoked and selected, known for their use in traditional medicine in the treatment of various diseases.
- Exhaustive bibliographic research and scientific validation of the ethnopharmacological properties of the selected species and possible extension of the action spectrum of these effects.
- Research the biological activities of their extracts with a view to isolating their secondary metabolites.
- Pharmacognosy & valorisation of medicinal plants (Extraction, Separation, Purification and structure determination of active principles and molecules with new structures.

- Study of the chemical composition and biological activities in vitro & in vivo of their extracts and essential oils.
- Research the biological activities of their extracts with a view to isolating their secondary metabolites.
- Search for particular secondary metabolites: (Sesquiterpene lactones, Flavonoids, Triterpenes, Lignans.....).
- The valorization of species with a high content of bioactive products in the socio-economic sectors.
- Tests of standardization of the active fractions of the crude extracts.
- The study of the structure-activity correlation for a better understanding of the mechanism of action of active ingredients.
- Mastery of new extraction, purification and analysis techniques.
- The research and isolation of active principles from fractions with biological activity, which remains to be defined.
- Determination of structures of active ingredients and molecules with new structures.
- Tests of standardization of the active fractions of the crude extracts.
- The study of the structure-activity correlation for a better understanding of the mechanism of action of active ingredients.
- Mastery of new extraction, purification and analysis techniques.
- **Other:** General Chair/ Chairman of the 1st International Congress on Innovations in Chemistry For Therapeutic Aims October 23 & 24 2022; University of Oum El Bouaghi, Algeria.