

Democratic and Popular Algerian Republic  
Ministry of Higher Education and Scientific  
Research



Ferhat ABBAS University - SETIF1  
Medicine Faculty, Department of Pharmacy  
Laboratory of Investigation and Research  
Specialized in Health, Environment and  
Innovation  
Algerian Chemical Society  
Faculty of Sciences, Chemistry Department of  
Mansora University Egypt  
Department of Chemistry Faculty of Sciences  
KASDI Merbah University Ouargla  
Organize:  
1st International Seminar on the Interest of  
Chemistry in the Development of Medical  
Sciences (SIICDSM2025) 04-09/05/2025

## TOPICS

1. Educational approach to chemistry in medical formation
2. Contribution of chemical pioneers in the medical field
3. Applications and impact of chemistry in medical sciences (organic, mineral, chemistry-physics, macromolecular chemistry and electrochemistry)
4. Advances in food chemistry

5. Advances in chemistry in the fight against cancer

6. Chemistry in the service of biological diagnosis

7. Chemistry in the service of toxicology

## Call for communication

### Objects

Chemistry occupies a central place in medical sciences on several levels. In drug development: A thorough understanding of the chemistry of organic and inorganic compounds is necessary to design, develop and manufacture drugs. Pharmacology is the study of how drugs affect living organisms. Chemistry is used in this discipline to understand how drugs work, their absorption, distribution, metabolism and elimination, and their effects on biological systems. Many medical diagnostic tests, such as blood tests, urine tests, and genetic tests, use chemical techniques to detect and measure specific substances in the human body. For example, chemical techniques such as mass spectrometry and chromatography are used to locate and quantify disease biomarkers. Medical imaging: In disease diagnosis, imaging techniques such as magnetic resonance imaging (IRM) and positron emission tomography (TEP) use chemical contrast agents to improve visualization of tissue and internal organs. Gene and cell therapies are innovative therapies that treat diseases by genetically modifying the patient's cells or using stem cells to regenerate damaged tissues through advances in organic chemistry and biotechnology. In summary, chemistry is essential to

the research, diagnosis, treatment and understanding of diseases in the medical field. Its role is present in various medical disciplines and continues to be crucial to advances in fighting disease and improving health care. As it has always been said "Chemistry is the mother of all specialties", in this context and to better understand the usefulness and importance of chemistry in medical sciences, the laboratory (LIRSSEI) of the Faculty of Medicine of UFAS 1 and in collaboration with the ACS (SAC) and other universities took the initiative to organize this seminar.

## Notes to authors

Summaries can be written in Arabic, French or English and sent by email. They must be presented according to the following instructions: TITLE (14, Bold, Times)  
A. Author a, B. Author b,...  
Affiliation 1, Address, email...  
Affiliation 2, Address, email...  
The summary must be written on an A4 page (21 x 29.7 cm) with a margin of 2.5 cm on each side in Times New Roman font size 12. The text must be justified on the right and left with single spacing. The title (Times New Roman, 14) in bold and capital letters. The names of the authors (Times New Roman, 10), emphasizing the name of the author who will present the work. Affiliations in italics (Times New Roman, 10).

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### Important dates

- Deadline for abstract submissions:  
**30 January 2025**
- Notification of acceptance of abstracts:  
**15 February 2025**
- Confirmation of participation :  
**30 March 2025**

**Program**

- Plenary conferences
- Oral communications
- Poster communications
- Workshops (molecular docking, molecular biology and sequencing, application of electrochemistry in medicine, Identification of medicinal and aromatic plants, Writing a scientific article, SPSS, Chemical management, Analysis of lithiasis, New validation approaches)

Bulletin to be returned with the summary to the secretariat by E-mail or on the seminar platform no later than **January 30<sup>th</sup> 2025**

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Communication Title : .....
Communication: <input type="checkbox"/> Oral <input type="checkbox"/> Poster
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<i>NB. The registration fee for speakers covers admission to all seminar sessions and catering except workshops.</i>

