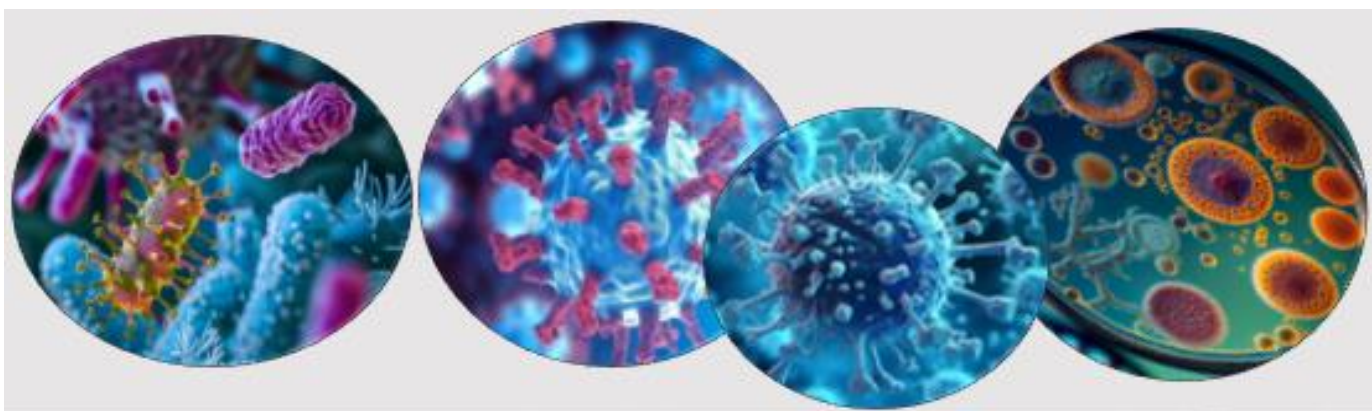


# Laboratory of Cellular and Molecular Biology-Tamayouz (LBCM-TAMAYOUZ)

2<sup>nd</sup> SCIENTIFIC DAY



## PATHOGENESIS AND NEW THERAPEUTIC APPROACHES : FROM BENCH TO BEDSIDE



October 22, 2025  
8 AM – 4.30 PM



Laboratory of Cellular and Molecular Biology  
Tamayouz, USTHB, POB 32  
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hikma.



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# Overview of the scientific day

The main objective of the LBCM-Tamayouz Scientific Day is to highlight the scientific and technological advances achieved in the fields of immune-inflammatory and infectious pathogenesis, biotherapy, and genomics, while fostering interaction among researchers, industry professionals, and entrepreneurs. This event will also serve as a platform for presenting doctoral projects with potential for innovation and technology transfer, particularly in the context of creating innovative start-ups in the biotechnology and health fields.

## TOPICS

Cancer

Inflammatory and  
Infectious  
Pathogenesis and,  
Genomics

Biomolecules  
and  
Biotherapy

# About the LBCM- TAMAYOUZ

Established by Ministerial Decree No. 88 of July 25, 2000, the Laboratory of Cellular and Molecular Biology (LBCM) includes 114 full-time researchers (19 Professors and 83 Associate Professors), grouped into eight research teams and, 77 PhD students. In 2021, it was awarded the TAMAYOUZ label, a national recognition of the laboratory's expertise in genetics, biochemistry, pharmacology, immunology, microbiology, and health-related biotechnologies.

The LBCM's research themes are aligned with national research priorities in the health sector and offer significant socio-economic impacts, particularly in the following areas:

- Identification of predictive, diagnostic, and prognostic biomarkers for several human diseases with a special focus on colorectal and lung cancer.
- Elucidation of cellular, molecular, and pathophysiological mechanisms in re-emerging, genetic, infectious, parasitic, chronic inflammatory, neuroinflammatory, autoimmune, metabolic, tumor, and envenomation-related diseases.
- Molecular (genetic and biochemical) identification and characterization of pathogenic microbial strains and bioactive compound producers.
- Structural and functional characterization of new biomolecules from several biological and microbial source.
- Development of innovative therapeutic strategies using biotherapy, nanotherapy, complementary and alternative approaches.

8 AM

REGISTRATION

8.30 AM

OPENING CEREMONY

Addressed by the Rector Prof. D. Akretche and the Dean of the FBS Prof. S. Ouafi-Harchaoui.

9 AM

PRESENTATION of the LBCM-TAMAYOUZ

Addressed by the Laboratory Director Prof. H. Oussedik-Oumehdi

9.15 AM

RECOGNITION CEREMONY

9.30AM

COFFEE BREAK

## SESSION1 : CONFERENCES

Moderators : Prof. Kafia Ladjali-Mohammedi, Prof. Mehdi Bourouba, Prof. Hamida Mesbah-Amroun,  
Dr Nabila Tounsi, Dr Nabila Seridi

10.00 AM

CONFERENCE 1

Genetic Testing for Hereditary Cancer Syndromes in Algerian population: What we know now and what we need.

Authors: **Farid Cherbal**, Chiraz Mehemmai, Djamel-Eddine Seddik, Mouchira Saidi, Feriel Khider, Asma-Lamia Boumehti, Hadjer Gaceb, Fatiha Gouaref, Kamel Bentabak, Hassen Mahfouf, Ferhat Zebboudj, Mohammed Oukkal, Mustapha Maaoui, Wassila Benbrahim, Kada Boualga

10.15 AM

CONFERENCE 2

Multidisciplinary insights into lung cancer: Clinical profiling, experimental models, and emerging therapeutic strategies.

Authors: **Habiba Oussedik-Oumehdi**, Hammoudi-Triki Djelila, Sonia Adi-Bessalem, Fateh Cherifi, Hinda Boukhalfa-Abib, Amina Mendil-Ladjel, Amal Megdad-Lamraoui, Amel Saci-Kadi, Nesrine Sifi-Ahras, Fares Daachi, Nadjia Bekkari, Dalila Khemili, Khadidja Zerouti, Louiza Bechohra, Dihia Allane, Asma Kaddache, Kahina Kiouas, Hadjila Moussaoui, Lilia Mouhouche, Nesrine Aouadi, Rania Merzouagui, Meriem Amarni, Farah Rebbouh, Widad Laouachra, Mustapha Mounir Bouhenna, Leila Laouar and Fatima Laraba-Djebari

10.30 AM

CONFERENCE 3

Human epidermal growth factor receptor 2 (HER-2) and KRAS Mutations in Colorectal Cancer: A Study on Algerian Patients.

Authors: **Abdelkader Bounaama** and Bahia Djerdjouri

10.45 AM - 11.00 AM

DEBATE

## SESSION 2 : ORAL COMMUNICATIONS

Moderators : Prof. Ahmed Abderrahmani, Prof. Sonia Adi-Bessalem, Prof. Dalila Mezioug,  
Dr Yasmine Kartout-Benmessaoud

11.00 AM - 11.32 AM

Oral communications 1-4

11.00 AM (T1OC1) : **Lilia Mouhouche**, Kahina Kiouas, Dihia Allane, Widad Laouachra, Leila Laouar, Habiba Oussedik-Oumehdi. Potential blood-based biomarkers for lung cancer progression: Insights from inflammatory and oxidative stress profiles

11.08 AM (T1OC2) : **Badr-Eddine Allal**, Abdelkader Bounaama, Bahia Djerdjouri. Integrative Machine Learning and Multi-Omics Uncover ACO2 as a Prognostic Biomarker in Colorectal Cancer.

11.16 AM (T1OC3) : **Ismahane Abdelaziz**, Allal Badr-Eddine, Bahia Djerdjouri, Abdelkader Bounaama. Repurposing Dimethyl Fumarate as a KEAP1 Inhibitor in Colorectal Cancer: Machine Learning Prediction and In Vivo Validation.

11.24 AM (T1OC4) : **Asma Behloul**, Aya Zeghimi, Zine Charaf Amir, Kafia Ladjali-Mohammedi. Molecular Profiling of Non-Small Cell Lung Cancers: A Retrospective Study on an Algerian Cohort.

11.32 AM – 11.45 PM

DEBATE

11.45 AM - 12.15 PM

POSTER SESSION

12.15 PM - 1.15 PM

LUNCH BREAK

## SESSION 3 : CONFERENCES

Moderators : Prof. Farida Nateche, Prof. Houda Belguendouz, Prof. Hinda Boukhalfa-Abib, Dr Amal Lamraoui,  
Dr Aya Zeghimi

1.15 PM

CONFERENCE 4

Precision medicine in cancerology.

Author: **Said Belhadef**

1.30 PM

CONFERENCE 5

Exploring halophilic *Archaea* and their potential in producing halocins and other biomolecules from Algerian saline soils.

Authors: **Ines Quadri** and The Microbiology Team

1.45 PM

CONFERENCE 6

Role of the Pathologist in Oncology.

Authors: **Khadidja Mokeddem**, Feriel Hadj Hammou, Wissam Abid

2.00 PM

CONFERENCE 7

Breast Cancer in the Era of Precision Medicine.

Author: **Nabila Chaher**

2.15 PM

CONFERENCE 8

Exploring the influence of the immuno-inflammatory mediators of EMT and metastasis in Oral cancer.

Author: **Mehdi Bourouba**

2.30 PM - 2.50 PM

DEBATE

2.50 PM – 3.20 PM

COFFEE BREAK

## SESSION 4 : ORAL COMMUNICATIONS

Moderators : Prof. Djelila Hammoudi-Triki, Prof. Amel Bouanane-Darenfed, Prof. Amina Mendil-Ladjel,  
Dr Okba Selama, Dr Adel Ghoul

3.20 PM – 4.00 PM

ORAL COMMUNICATIONS 5-9

3.20 PM (T20C1) : **Chahinez Messaili**, Khadidja Khorsi, Amira Chine, Safaa Bensalah. Poultry Products as a Reservoir of CTX-M ESBL-Producing *Escherichia coli*. Characterization of Antibiotic Resistance Traits.

3.28 PM (T20C2) : **Amirouche Fernane**, Abdenmour Taghli, Sarah Ait Benali, Khira Othmani-Mecif, Adel Ghoul. Methionine-Driven Hyperhomocysteinemia Impairs Cardiac Lipid Metabolism and Provokes Perivisceral Adipose Oxidative Stress.

3.36 PM (T20C3) : **Amina Ayad-Mekdache**, Adel Ghoul. Synergistic Nutritional Modulation of Age-Related Obesity: Impact of MUFA and n-3 PUFA on Metabolism and Oxidative Stress.

3.44 PM (T20C4) : **Yasmine Kartout-Benmessaoud**, Siham Ouchia-Benissad, Leila Mahiddine-Aoudjit, Kafila Ladjali-Mohammed. Chromosomal Evolution in Avian Species.

3.52 PM (T30C1) : **Noussaiba Saghour**, Fatima Laraba-Djebbari, Samah Saoud, Fatah Cherifi. Assessing the Anticoagulant and Antithrombotic Effect of a New Potential Biotherapeutic Peptide “Cerastokunin”

4.00 PM – 4.15 PM

DEBATE

4.30 PM

SCIENTIFIC DAY CLOSING