

المؤتمر الدولي للصناعة والتكنولوجيا الحيوية والصحة  
International Congress of Industry, Biotechnology and Health  
Congrès International de l'industrie, de la Biotechnologie et de la Santé



جامعة شعيب الدكالي  
Université Chouaib Doukkali



ICIBH

## Biotechnologie et Agroalimentaire Numérique : un pont entre la Science et l'Industrie

@icibh   

14 - 15 octobre 2025



PULLMAN MAZAGAN ROYAL GOLF  
ELJADIDA



## ☰ CONTEXTE & OBJECTIFS

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Le Congrès International de l'Industrie, de la Biotechnologie et de la Santé (ICIBH) a pour objectif de favoriser la collaboration et le partage des connaissances entre chercheurs, scientifiques, technologues innovants, ingénieurs, décideurs politiques, acteurs économiques et associatifs, ainsi que les professionnels et spécialistes du secteur de la Biotechnologie et de la Santé. Cet événement, prévu du 14 au 15 octobre 2025 à El Jadida, au Maroc, se tiendra sous le thème « Biotechnologie et Agroalimentaire Numérique : Un pont entre la science et l'industrie ».

Cette 1ère édition de l'ICIBH'2025 offrira une excellente occasion de discuter et de collaborer en réunissant un public diversifié afin de promouvoir une meilleure compréhension des enjeux actuels et futurs liés à l'intégration de l'intelligence artificielle dans le secteur agroalimentaire.

Il vise à mettre en lumière la nature translationnelle de la recherche dans ces domaines, en mettant l'accent à la fois sur la science fondamentale et ses applications dans l'industrie et le milieu universitaire.





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- Président de l'Université Chouaib Doukkali
- Doyen de la Faculté des Sciences d'El Jadida
- Directrice de l'Institut National de la Recherche Agronomique - INRA
- Directeur du Centre International de Recherche Agricole dans les Zones Arides -ICARDA
- Directeur de l'IMPERIUM LABORATOIRE
- Présidente de l'Association BIOTECHNS



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# PROGRAMME

## OFFICIEL DU CONGRÈS

Mardi  
**14 Oct**

8h30 - 9h00

Accueil et inscription des participants

9h00 - 10h00

### Ouverture du congrès

- Président de l'Université Chouaib Doukkali
- Directrice de l'Institut National de la Recherche Agonomique - INRA
- Président du Directoire Général du Groupe de Crédit Agricole du Maroc
- Président IMPERIUM HOLDING
- Représentant du Centre international de recherche agricole dans les zones arides -ICARDA
- Présidente de l'association BiotechNS
- Comité d'organisation
- Signature de la convention

10h00 - 10h30

Pause Café

### Session des Conférences plénières

10h30 - 11h00



**Vincent MEYER**

Professeur, Université Côte d'Azur, France

**Le numérique et l'agroalimentaire : quelle acceptabilité sociale pour l'impression 3D alimentaire ?**

11h00 - 11h30



**Soule Hamidou**

Doyen de la Faculté des Sciences et Techniques Université des Comores, îles des Comores

**Tambourissa Comoriensis, source de molécules bioactives à potentialité pharmacologiques et cosmétiques**

11h30 - 12h00



**Omar IDRISSI**

Docteur, Institut National de la Recherche Agronomique (INRA) - CRRA Settat, Maroc

**Stat of Art of the implementation of biotechnology tools in plant breeding for efficient variety development in Morocco**

12h00 - 12h30 **Discussion et Débat**

12h45-14h45 **Pause déjeuner**

15h00 - 17h00

### Session des Communications orales

>> Session 1 : « Biotechnologie agricole »

>> Session 2 : « Agroalimentaire numérique »

17h00 - 17h30

Pause café (Session des Poster)



## Session 1: "Agricultural Biotechnology"

Session chair : Mme Bouchra EL AMIRI, Mme Nadia ERRAFIY, Mme. Fatiha CHIGR,

**Salle CV**  
(Salle de Conférence Visio)

**Ahmed EL ANNAOUI**, Phenotypic diversity of red juniper (*Juniperus turbinata* Guss.) in Morocco: richness, variability and structure

**Aicha KHAZRAJ**, Seed germination responses of Moroccan hemp (*Cannabis sativa* L.) cultivars to different salt types and concentrations

Ahmed EL ANNAOUI, Phenotypic diversity of red juniper (*Juniperus turbinata* Guss.) in Morocco: richness, variability and structure

**Amal NADRI**, Seasonal dynamics and community structure of macro-epifauna associated with native and non-native macrophytes in the Oualidia lagoon (NW Morocco)

**Soukaina SAADAoui**, Development of an enzymeimmunoassay (ELISA) sandwich kit for early pregnancy diagnosis in sheep

**Fatima Zahra BEN DEBBANE**, Enhancing Water Soluble Carbohydrate Partitioning and Vegetative Growth in Bread Wheat Microbial Biostimulant Treatments under Arid Moroccan Conditions

**Hassna RADI**, Effects of salt stress and plant growth regulators on argan germination and axillary bud development in vitro

**Ibtissam ZAMOUR**, Biostimulant Effect of Aquatic Plant Extract on morpho-physiological and Biochemical Traits of cadmium-stressed Sorghum Plants (*Sorghum bicolor*) During the Germination Stage

**Khansae KAMAL**, Biorefinery recovery of mannitol and alginate of the brown seaweed *Sargassum vulgare* from Atlantic coast of Morocco

**Khaoula LAMAIZI**, The effect of aqueous extract of *Marrubium vulgare* L. on the cryopreservation of semen from Sardi rams.

**Kosi Unifia Clément APADOU**, Phenotypic and genotypic characterization of bacteria associated with root nodules of *Ononis diffusa* Ten. in northern Morocco

**Lamiaa BELASRI**, Agricultural potential of treated leachate: Agronomic assessment of *Medicago sativa* and in vivo toxicological study

**Maainia SAADANI**, Antioxidant and in Vitro Digestibility of Fish Protein Hydrolysates: A Dual-Benefit for Marine Biotechnology

Session chair : Mme Fatima BELLALI, M Atman ADIBA, M Kamil Noureddine,

**Salle PO**  
(Salle de Présentation Orale)

**Noura LMOUDN**, Assessment of Barley Tolerance to Salt Stress: Effect of Irrigation Water Conductivity in the Beni Amir Region, Morocco

**Rajaa TESSE**, Enhancing Salt Stress Tolerance in *Argania spinosa* (Skeels L.) via Abscisic Acid in Temporary Immersion Systems

Noura LMOUDN, Assessment of Barley Tolerance to Salt Stress: Effect of Irrigation Water Conductivity in the Beni Amir Region, Morocco

**Fatima NADIF**, Physiological Screening of Moroccan Lentil Varieties and Advanced Lines for Heat Tolerance: Transpiration Response to Gradual Increases in Vapor Pressure Deficit

**Sadik DANI**, Phenotypic analysis of the genetic resources of white mulberry (*Morus alba* L.) in Morocco

**Fatimzahra ZIKY**, Biological Activities of *Capsicum annum* L. Dried Using a Hybrid Solar Dryer from Beni Mellal: Valorization of a Local Resource for Therapeutic Applications

**Aziz EZZINE**, Phenotypic diversity of natural populations of *Chamaerops humilis* L. in Morocco

**Ibtissam MARDOUME**, Etude comparative des teneurs en sucres et en acides organiques des figues (*Ficus Carica* L.) marocaines des oasis et des régions de l'Atlas.

**Hamid MOUFRAJI**, Green Economy and Biowaste Valorization: Technological Innovation and Sustainable Territorial Development in Greater Casablanca

**Hasna ZAGGOURI**, Comparative Evaluation of PCR-Capillary Electrophoresis and High-Resolution Melting for Genotyping *Ceratonia siliqua* Populations

**Sara Desy MOUBOUASSI BISSELOU**, Involvement of the Connexin 26 (GJB2) gene in deafness in SubSaharan Africa: reported mutations and ongoing NGS study in Gabon

**Amine LOUIZI**, Screening of Legumes for L-DOPA Content and Solvent Extraction Efficiency: Exploring Natural Sources of the Anti-Parkinson's

Session chair : M Youness NOUTFIA, Mme Fouzia HMIMID, M Soufien MEJATI

## Salle PO (Salle de Présentation Orale)

**Khaoula ALAMI**, Scaling Green Innovations by Agri-food Cooperatives in Moroccan Central Rif: Opportunities of Eco-Friendly Formulations for Eco-Design, Smart Marketing, and Sustainability

**Abdelillah AMMADI**, Multi-objective optimization of the drying of the niora (*capsicum annum L.*) by experimental designs, nsga-ii algorithm and artificial neural networks

**Youssef AMJAHDI**, From Compliance to Organizational Intelligence: The Smart Quality System (SQS) as a New Quality Framework for the Agri-Food Industries

**Ilham KHLILA**, Integrating Digital Phenotyping Tools to Enhance Nitrogen Use Efficiency and Yield Prediction in Moroccan Bread Wheat under Semi-Arid Conditions

**Youssef EL HILALI ALAOUI**, AI and Machine Learning in Precision Agriculture: Predicting Bayoud Disease from Soil Microbial Activity Before Date Palm Infection

## 17H00 - 17H30 POSTER SESSION

- **Ahmed EL ANNAOUI**, Red juniper (*Juniperus turbinata* Guss.) in the face of ecological constraints: a model for combating desertification ;
- **Imane ES-SAHM**, Enhancing Growth and Antioxidant Metabolite Accumulation in *Nicotiana benthamiana* Induced by PGPR Against *Pseudomonas syringae* pv *tabaci*;
- **Khaoula LAMAIZI**, Comparative study of antioxidant activity and phenolic content of *Marrubium vulgare* L. extracts using different solvents ;
- **Badr EZZYKY**, Unlocking the Potential of Plant Growth-Promoting Bacteria (PGPB) in Mitigating Drought and Salinity Stress in Tomato: A Literature and Bibliometric Review (2000–2025);
- **Doha BELKACHACH**, Exploring Almond Diversity: Comparative Characterization of Indigenous and Introduced Genotypes across Moroccan Regions ;
- **Siham EL JADOUMI**, Enhancement of plant growth, using plant growth-promoting rhizobacteria (PGPR) associated with plum trees (*Prunus domestica*).
- **Mohammed EL MADIHI**, Plastic Response in Amphibious Plant Functional Traits Along a Latitudinal (Climate) Gradient ;
- **Abdel Jawad ELFADI**, Conservation agriculture and dry root rot management in cereal systems: Insights into no-till practices in arid and semi-arid regions;
- **Asmaa FERNANE**, Comparative Analysis of Ant Diversity in Organic and Conventional Agricultural Systems in Central Morocco ;
- **Kaoutar BOUGADRA**, Potential of Phycobiliproteins and Sulfated Galactan from Red Algae as Innovative Biofertilizers for Sustainable Agriculture;
- **Amal RAOUFI**, Role of Mb vg L. Extracts on yeast membrane integrity under Oxidative Stress ;
- **Soukaina SAADAOUI**, Development of Qualitative Indirect ELISA for Serological Diagnosis of Ovine Caseous Lymphadenitis ;
- **Youssef EL HILALI ALAOUI**, Soil-Based Biocontrol of Bayoud Disease in Date Palms: The Role of *Fusarium* Antagonism and Nutrient Competition

Mercredi

# 15 Oct



8h30 - 9h00

Accueil et inscription des participants

## Session des Conférences plénières

9h00 - 9h30



### Zein KALLAS

Professeur, Polytechnic University of Catalonia, Espagne

**Consumers' preferences for more sustainable food systems. Methodological approach and empirical results**

9h30 - 10h00



### Kaoutar ELFAZAZI

Docteur, Institut National de la Recherche Agronomique (INRA) - CRRA Tadla-Béni Mellal, Maroc

**Agro-Industrial Transformation for Resilient Cropping Systems**

10h00 - 10h30

Pause Café

## Session des Conférences plénières

10h30 - 11h00



### Kaouther ARDAOUNI

Professeur, Institut Supérieur de Biologie Appliquée de Médenine, Université Gabés, Tunisie

**Importance de l'emballage biodégradable dans l'industrie agroalimentaire**

10h30 - 11h00



### Youssef AMJAHDI

Directeur, IMPELAB Marrakech, Maroc

**De la fourche à la fourchette : l'importance des standards pour une alimentation sûre", cas d'illustration : SQS ( Smart Qualité système)**

11h30 - 12h00



### Abderraouf ELANTARI

Docteur, Institut National de la Recherche Agronomique (INRA)- CRRA Marrakech, Maroc

**Importance of local products under Distinctive signs of origin and quality (DSOQ) and constraints on their emergence-Case of olive oil**

12h00 - 12h30 **Discussion et Débat**

12h45-14h45 **Pause déjeuner**

15h00 - 16h30

## Session des Communications orales

>> Session 3 : « Science et technologie des aliments»

16h30 - 17h00 **Pause café**

(Session des Posters )

17h00 - 18h00

- Signature de la convention BiotechNS-Impelab
- Remise des Prix des communications orales et posters



## Session 3: " Food Science and Technology"

Session chair : Mme Nadia HOUMY, Mme. Salwa LAMTALI, M. Mohamed BENNANI,

**Salle CV**  
(Salle de Conférence Visio)

**Salah LAARAJ**, Valorization of Carob Pulp through the Development of Functional Biscuits: A Sustainable Nutritional Approach

**Hasna ZAGGOUMI**, Comprehensive Biochemical and Microbiological Analysis of Carob (*Ceratonia siliqua* L.) Parts: Seeds, Pulp, and Leaves as Natural Ingredients for Food Technology

**Youness EZ-ZALMATY**, Characterization, quantification and typology of co-products in the Sous Massa Region (Morocco): inventory of co-products from the freezing industry

**Ismail BAYE**, The cultivation of Japanese loquat (*Eriobotrya Japonica* Lindl.) in Morocco

**BAKKAR Fatima zahra**, Nutrigenomics of CML: Can Agri-Food Bioactives Modulate Leukemia Pathways?

**Nouhayla MOUATADID**, Biotechnological Optimization of Plant Proteases as Rennet Substitutes and Consumer Perceptions of Aged Cheese in Emerging Markets: A Moroccan Case Study.

**Laila FARISSI**, Chemical Approaches for Detecting Stored-Product Insect Eggs

**Houda ENNOUR IDRISSE**, Characterization of hydroalcoholic extracts of *Origanum compactum* and *Eucalyptus camaldulensis* : Influence of concentration processes on the content of phytochemical compounds and their antibacterial effect

**Khadija RACHCHAD**, Nigella oil reduces cortisol levels and improves antioxidant stability of meat in rabbits subjected to transport and thermal stress

**Lamiaa AIT SI**, Chemical Composition, Antibacterial Activity, and Antioxidant Potential of Selected Essential Oils for Food and Healthcare Applications

**Imane AOUDANI**, Study of the influence of environmental factors and chemical contamination on the nutritional quality of clams and mussels

**Mohamed Larbi OUAZIZ**, Physicochemical quality of olive oils from the Amizmiz region (Haouz Morocco): impact of harvesting and processing practices on their real potential

**Abdelmouhaimin KHOUGHAB**, QuEChERS-GC-MS/MS Method for Extraction and Determination of Food Contaminants

Session chair : Mme Kaouther ARDHAOUI, Mme Souad RAHIM, M. Mostafa KABINE

**Salle PO**  
(Salle de Présentation Orale)

**Houda BOUSSELHAM**, Durum Wheat Foods of North Africa: Understanding Traditional Knowledge to Guide Breeding Research

**Chaimae EL-RHOUITAIS**, Effect of Xanthan gum based edible coating enriched with cloves and cinnamon for extends the shelf-life of pomegranate fruit during cold storage

**Nour El Houda EL FADILI**, Biological Potential of *Cistus Ladanifer*: Antioxidant and Antidiabetic properties for nutritional uses

**Zahra El KETTABI**, Effects of Ascorbic Acid on the Storage and Quality Stability of Moroccan Cherries

**Yousra KAMALI**, Comparative Protective Effects of Essential Oils from *Salvia rosmarinus*, *Ocimum basilicum*, and *Lavandula angustifolia* on Membrane Lipid Stability

**Hamza TAMI, Cross-Species Microbiota**: Comparative Isolation and Characterization of Lactic Acid Bacteria from Moroccan Goats and Camels' Meat for Natural Food Preservation

**Hajar OUAKI**, The Role of Plant-Derived Polyphenols in Modulating Parkinson's Disease Pathogenesis

**Hanae LEHAMAOU**, Enhancing the technological quality of sweet pepper under the Tadla environmental conditions: A field-based approach to optimizing planting pattern and mulching under full irrigation

**Latifa TALHAOU**, Evaluation of the metabolic effects of emamectin benzoate on green beans (*Phaseolus vulgaris* L.)

**Rime SADIK**, Preventing Metabolic Syndrome in PCOS Patients: Interest of an Anti-Inflammatory and Insulin-Sensitizing Diet

**Samar AL HETEILAH**, Pilot study: Evaluation of FODMAPs consumption in patients with IBS and healthy people in Hay Hassani provincial hospital

**Fatima ABDOU-ALLAH**, Antifungal and Antibacterial Activities of *Ephedra fragilis* Aqueous Extract: Phytochemical Profile, Antioxidant Capacity, and Toxicological Evaluation.

## 17H00 - 17H30 POSTER SESSION

- **Ibtissam KANNOUCH**, Technological valorization of citrus by-products: pectin extraction process optimization.
- **Laila FARISSI**, Natural Approaches for Detecting Stored-Product Insect Eggs ;
- **Latifa TALHAOUI**, Insecticide impacts on metabolic processes in red pepper (Niora) (*Capsicum annum L.*);
- **Dounia OUHAMI**, Characterization and assesment of quality potential of olive oil produced in loukkos basi ;
- **Sihame EL FAKIR**, Molecular surveillance of Hepatitis A Virus and Norovirus in water sources in Morocco : implications for Food safety and public health ;
- **Hafsa HABCHI**, Exploring the therapeutic Potential of Marine Organisms in Morocco;
- **Siham BECHAR**, Combined effects of storage humidity and packaging type on the chemical stability and bioactive compounds in virgin olive oil;
- **Meryem SOUIDEK**, Bioactive Compounds, Antioxidant Activity, and Antimicrobial Properties of the Ethyl Acetate Extract of *Cynara cardunculus L.* ;
- **Fatima Zahra TAGRI**, Biotechnological Valorization of Mussel Shell Waste: Composition Analysis and Potential Applications in Agri-Food Systems ;
- **Fatima ABDOU-ALLAH**, Antibacterial and Antioxidant Activities of *Ephedra fragilis* Infused Extract: Phytochemical Insights and Radical Scavenging Evaluation;
- **Mohamed Larbi OUAZIZ**, Physico-chemical analysis of Olive Oils in the Amizmiz Region (Morocco);

## COLLABORATEURS



## PARTENAIRES

