



Conference Program

COMMITTEES

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- **Pr. Mohamed Ebn Touhami**, President, Ibn Tofail University
- **Dr. Abdelmoumen Redouane**, Provincial Delegate, Ministry of Health and Social Protection
- **Pr. Yassine Hafiani**, Director, Hôpital Zemmouri, Kénitra
- **Pr. Banacer Himmi**, Director of Research, Training and Cooperation, ISPITS Rabat

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- **Ghizlane Bouazza** (Higher Institute of Nursing and Health Techniques, Ministry of Health and Social Protection, Kenitra, Morocco)
- **Lamiae Hachad** (Higher Institute of Nursing and Health Techniques, Ministry of Health and Social Protection, Kenitra, Morocco)
- **Driss Touil** (Higher Institute of Nursing and Health Techniques, Ministry of Health and Social Protection, Kenitra, Morocco)

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- **El Hafedh El Mouhab** (UR-biological markers in the Mauritanian population-Faculty of Sciences and Technology University of Nouakchott, Mauritania)
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- *Nassereddin Bedrouni*
- *Aya El Gouzouly*
- *Chihab Noura*
- *Aya Byad*
- *Sofia Jadaoui*

Tuesday, November 4, 2025

Time	Session	Speaker(s)	Title/Focus
08:30 AM 09:00 AM	Registration & Welcome	—	Participant registration and welcome desk
09:00 AM 09:10 AM	Opening in Respect and Solemnity	Mr. Daress Abdelhakim	National Anthem and Recitation of the Holy Qur'an
09:10 AM 09:15 AM	Welcome Address by the Chair	Pr. Louragli Ismail	Official welcome and presentation of the conference objectives and thematic framework
09:15 AM 09:25 AM	Official Opening of the Conference	Ms. Akbour Houda <i>Director ISPITS Rabat – Kénitra Annex</i>	Inaugural address marking the official start of <i>BHAI 2025</i>
09:30 AM 10:00 AM	Official Speeches “Biology, Health & Artificial Intelligence: Institutional Perspectives and Strategic Vision”	Honorary Committee Panel: – Ms. Houda Akbour – Pr. Mohamed Ebn Touhami – Dr. Abdelmoumen Redouane – Pr. Yassine Hafiani – Pr. Banacer Himmi Moderator: Pr. Khalid Chakhtoura	Reflections on national strategies, interdisciplinary synergies, and ethical foresight at the intersection of Biology, Health, and Artificial Intelligence
10:00 AM 10:30 AM	Keynote Lecture 1	Pr. Arfaoui Amine	Analyse de données en santé à l'ère de l'intelligence artificielle
10:45 AM 11:15 AM	Coffee Break & Networking (poster)	—	—
11:15 AM 12:45 AM	- Session 1 - Session 2		
12:45 PM 13:45 PM	Lunch Break	—	—
13:45 PM 14:30 PM	Keynote Lecture 2	Pr.Aouane Mahjoub	L'intelligence artificielle au service de la sécurité des aliments
14:30 PM 15:15 PM	Coffee Break & Networking (poster)	Poster comity	Poster session
15:15 AM 16:00 PM	Keynote Lecture 3	Pr.Hachad Lamiae	IA en Santé: Promesses, Réalités et Perspectives
16:00 PM 17:30 PM	- Session 3 - Session 4		

Wednesday , November 5, 2025

Time	Session	Speaker(s)	Title/Focus
09:00 AM 09:30 AM	Registration & Welcome	—	—
09:30 AM 10:15 AM	Keynote Lecture 1	Pr. Harchaoui Hakim	Neurodevelopmental Disorders and Digital Devices: Insights from Autism and Jestimule
10:15 AM 11:00 AM	Coffee Break & Networking (poster)	Poster comity	Poster session
11:00 AM 11:45 AM	Keynote Lecture 2	Pr. Moumen Aniss	AI and Computational Infrastructures for Next-Generation Biomedical Research
11:45 AM 13:15 PM	- Session 1 - Session 2		
13:15 PM 14:15 PM	Lunch Break		
14:15 PM 15:00 PM	Keynote Lecture 3	Pr. Bouazza Ghizlane	L’impact de la simulation sur l’apprentissage en soin infirmier
15:00 PM 16:30 PM	- Session 3 - Session 4		
16:30 PM 17:15 PM	Conference Closure	Pr. Chakhtoura Khalid	Closing Remarks & Future Directions
17:15 PM	Coffee Break & Networking	—	Farewell Gathering

Oral Communication Session Program

BHAI'2025

International Conference on Biology, Health & Artificial Intelligence

04–05 November 2025 – ISPITS Kenitra, Morocco

Day 1 : Tuesday 04 November 2025

Session/Topic	Session 1: Artificial Intelligence in Biology and Health- Medicine& Public Health	
Chairs	OUBAL Redouane, HARCHAOUI Hakim, HACHAD Lamiae, RASSAI Nadia	
Hour	Authors	Title
11:15 AM - 12:45 AM	EL DEEB SEHAM	Predictive Analysis of Morbidity, Mortality, and Survival in Digestive Cancers: Toward Personalized Treatment Approaches
	BENADDOU MOHAMED	Early Detection of Bacterial Contamination and Mycotoxins in Animal Feed and Silage Using Artificial Intelligence
	LAMCHABBEK NAJOUA	Exploring Moroccan Dietary patterns: New Insights into Breast Cancer Risk
	ABDULAZIZOVA SHAKHZODA AKRAM QIZI	Immunohistochemical analysis of bcl-2 and p53 in rabbit lung tissue following nurinol pesticide exposure
	AGUERD ALI	Few-Shot Learning for Predicting Genetic Biomarkers in Cerebral Autosomal Dominant Arteriopathy with Subcortical Infarcts and Leukoencephalopathy (CADASIL)
	SADIK RIME	Personalized Management of Metabolic Syndrome in Women with PCOS: Nutritional Strategies and the Emerging Role of Artificial Intelligence
	MASBAH SOFIA	Évaluation de la place des chatbots dans la prise en charge diététique : Exemple de ChatGPT

Session/Topic	Session 2: Genetics & Biochemistry	
Chairs	CHAIB Asmaa, EL BRINI Otmame, BELAICH Rachida, TAOUDA Hasna	
Hour	Authors	Title
11:15 AM - 12:45 AM	HARICH NOURDIN	Association du polymorphisme rs6629110 du gène ACE2 avec la susceptibilité à la COVID-19 dans la population marocaine
	FARHANE HAMID	Polymorphisme d'insertion Alu (Alu-PV92, Alu-APOA1, Alu-TPA25, Alu-ACE) et susceptibilité au syndrome métabolique chez la population de Doukkala
	EL OUASIF LATYFA	Nouveaux dérivés du 2-mercaptobenzimidazole susceptibles de présenter des propriétés tensioactives :Synthèse et évaluation de leurs propriétés antibactériennes et antioxydantes
	MUSTAPHA ARICH	Comprehensive in silico Analysis of Non-Synonymous SNPs in the KRAS Gene Associated with Non-Small Cell Lung Cancer
	FADOUACH MOHAMED	Epidemiological Profile of End-Stage Chronic Kidney Disease in the Rabat–Salé–Kénitra Region: A Study Conducted in 2024

Session/Topic	Session 3: Biology and Life Sciences & Environment	
Chairs	BOUALAM Abderrahmane, HADJI Mohamed, ELOUAKFAOUI Aziz, EL FARI Radouane	
Hour	Authors	Title
16:00 AM - 17:30 AM	BOUHASSOUN SAMAH	Évaluation des propriétés biologiques et de la composition chimique de plantes aromatiques et médicinales
	FEJJAJ FADWA	Transition nutritionnelle et carence en fer chez l'enfant : Impact des changements environnementaux et de la mondialisation alimentaire
	MGAMAT FOUZIA	Évaluation de l'effet répulsif de l'extrait d'Ammi visnaga (L.) et de l'extrait d'Asphodelus cerasiferus Gay. Contre Callosobruchus maculatus (Fab.) (Coleoptera : Bruchidae)
	BOUCHNAFA HAJAR	Intégration des déterminants sociaux dans la biologie environnementale : Défis de l'incorporation biologique et des inégalités sociales de santé chez les adolescents.
	SEMLALI SOFIA	CYP11B2 gene polymorphisms and arterial hypertension: a comprehensive review and outlook on artificial intelligence-enabled precision medicine

Session/Topic	Session 4: Neuroscience	
Chairs	BOUAZZA Ghizlane, TOUIL Driss, OUBAL Redouane, LOURAGLI Ismail	
Hour	Authors	Title
16:00 AM - 17:30 AM	AL KHATEEB WESAM	Molecular and phytochemical variability in <i>Urtica pilulifera</i> L. populations in Jordan
	BOUZABOUL MOUNIR	Evaluation Neurocognitive des stratégies visuo-perceptives et mnésiques à l'aide de la version numérique de la figure complexe de Rey et leurs relations avec la performance académique chez des collégiens du Moyen Atlas
	ABDELHADI HICHAR	Burnout among secondary school teachers: the case of the Kenitra administration
	MHAREK REDA	Burn-out des peronnels de santé pendant et après la pandémie Covid-19
	MRABET ABDESSAMAD	Impact de l'estime de soi, de la motivation et des paramètres socioéconomiques sur la réussite scolaire d'élèves du cycle secondaire de la région de Tiznit
	ELKOUCH ASMAE	Mitigating Hyperglycemia-Induced learning and memory impairment: Insulin Combined with Lemon Peel Essential Oil Effects Hippocampal Oxidative Stress, Neuroinflammation, and BDNF Expression in Type 1 Diabetic Rats
	RIADE ACHRAF	Complexité de la tâche à trois ordres d'indice prospectif
	CHAKER LAMRANI ANASS	Conjugal violence influence on the mental health of married couples in the city of Kenitra
	ARCHOU RACHIDA	Addiction au Smartphone chez les étudiants infirmiers au Maroc : prévalence et troubles mentaux associés
	ZOUHAIRI NADIA	Effect of Maternal Anemia on Pregnancy Course, Birth Outcomes, and Infant Growth and Neuropsychomotor Development
	MAALOUM ZEINEBOU	Epidemiological profile clinical, therapeutic, and prognostic characteristics of the upper aerodigestive tract cancers in Mauritania (2017 to 2023)

Day 2 : Tuesday 05 November 2025

Session/Topic	Session 1: Medicine & Public Health	
Chairs	HARCHAOUI Hakim, LERHLIBI Hajar, CHEHAB Soukaina, CHAIB Asmaa	
Hour	Authors	Title
11:45 AM - 13:15 PM	RMILI MOHAMED	The relationship between body weight status in girls and boys and participation in extracurricular sports activities
	ELGHANAOUI SOUAD	Développement et validation d'un modèle par éléments finis de l'oreille moyenne humaine basé sur l'imagerie médicale
	BOUYA MERYEM	La dyslexie: synthés des connaissances sur ces origines, ses manifestations et ses interventions
	NADI SARA	Assessment of anxiety and depression before and after mastectomy in Moroccan women with locally advanced breast cancer
	RACHID AIT HAMMOU	Impact of Diabetes on Cognitive Functions: A Comparative Study of Diabetic and Non-Diabetic Individuals in Dakhla
	ABDELAATI EL KHIAT	Séroprévalence de l'infection syphilitique chez les donneurs de sang du centre régional de transfusion sanguine de la région du Draa, au Maroc : une étude transversale
	HABCHANE NAOUAR	L'intégration de la simulation dans les curricula des formations en santé : effets sur l'apprentissage expérientiel et la rétention des connaissances

Session/Topic	Session 2: Medicine & Public Health	
Chairs	LOUGAGLI Ismail, HACHAD Lamiae, AMAZIANE Mounia, CHAHBOUNE Nabila	
Hour	Authors	Title
11:45 AM - 13:15 PM	BOULMAKOUL KALTHOUME	Les troubles émotionnels et conduites addictives chez les étudiants marocains en période de confinement
	KRIYA SALIMA	Stratégies de coping religieux chez les femmes récemment diagnostiquées avec un cancer du sein au Maroc : résultats préliminaires d'une étude de cohorte
	ELMASTINI HANAA	The role of social and organizational factors in determining stress levels in healthcare professionals during the COVID-19 pandemic: Implications for the management of subsequent health crises.
	ELATTABI CHAIMAA	The distribution of breast cancer cases in the region of casablanca settat and the impact of travel distance on cancer stage
	HAMDAOUI HASNA	The contribution of cytogenetics to the management of B-cell acute lymphoblastic leukemia (B-ALL) in children
	KAMAL SMIMIH	Altered short working and spatial memories in mice prenatally intoxicated with ethanol
	OMAR EL HIBA	L'exposition prénatale à l'ochratoxine A perturbe le développement sensorimoteur chez la souris
	HADJI MOHAMED	Entomology, typology and characterisation of larval habitats of disease-vectors mosquitoes (Diptera, Culicidae) in the province of Sidi Slimane, Morocco
	ELOUAKFAOUI AZIZ	Bacteriological monitoring of surfaces and medical devices in the intensive care unit of the provincial hospital of Sidi Kacem Morocco

Session/Topic	Session3: Medicine & Public Health	
Chairs	BOUAZZA Ghizlane, LERHLIBI Hajar, CHEHAB Soukaina, CHAIB Asmaa	
Hour	Authors	Title
15:00 PM - 16:30 PM	BOUZIT ABDELLAH	Identification des STAPHYLOCOCCUS Aureus : Élaboration d'un protocole comparative au VITEK COMPACT
	SLIMANE FAOUZI	Complémentarité des outils biochimiques et de la spectrométrie de masse dans l'identification des bactéries anaérobies atypiques
	EL-MANSOURY BILAL	Memory Impairment in Chronic Hepatic Encephalopathy Is Associated with Cortical and Hippocampal Microglial Activation
	SEBHAOUI JIHAD	Design and Synthesis of JNK Inhibitors that Suppress PKLR: Dual Leads for NAFLD and Hepatocellular Carcinoma
	EL HARCHAOUI KHADIJA	Automated Segmentation of the Ear Canal from Medical Imaging for the Design of Custom Hearing Aids and Ear Protectors
	CHIBANI ABDELKADER	Impact of human anthropogenic activities on the water quality of the Bou Agba aquifer in the Sebou basin, Morocco
	ZRAIDI MOHAMED	Cervical cancer prevention profile and strategy in Morocco and EMRO
	EL KHIAT ABDELAATI	Séroprévalence de l'infection par le virus de l'hépatite B chez les donneurs de sang bénévoles dans la région du Draa, au Maroc : une étude rétrospective

Session/Topic	Session 4: Biology and Life Sciences & Environment	
Chairs	LOUKILI Abdechahide , KARYM EL Mostafa, ARFAOUI Amine	
Hour	Authors	Title
15:00 PM - 16:30 PM	CHAKHTOURA KHALID	Study of factors influencing delayed breast cancer diagnosis in the province of Kenitra, Morocco
	DARESS ABDELHAKIM	Intersecting Roles of Gender and Social Determinants in the Construction of Health Experiences
	BOUAZZA GHIZLANE	Evaluation of the Knowledge of Diabetic Patients on the Prevention of End-Stage Chronic Kidney Disease
	HARCHAOUI HAKIM	The intestinal yeast exploration and antifungal (drugs, natural agents) examination of an autistic patient: report case
	OUBAL REDOUANE	Computational biology and the management of clinical research in Morocco: towards better health data management
	EL BRINI OTMANE	The Epigenetic clock: A new insight into Metabolic Syndrome
	TOUIL DRISS	A study of the relationship between self-esteem and psychological well-being among Moroccan students in nursing and health sciences.
	CHTIOUI ADIL	The Right to Biomedical Data Protection in the Age of AI Algorithms: Ethical and Legal Challenges of Informed Consent
	ELFARI RADOUANE	Docosahexaenoic acid restores learning and memory functions altered by acute manganese intoxication in mice
	SAAD FATIMA EZ-ZAHRAA	Prenatal ochratoxin A exposure disrupts sensorimotor development in mice
	LOURAGLI ISMAIL	Enhancing Working Memory through a Scout-Oriented Cognitive Program in Individuals with Social Media Addiction: A Case Study
	BOULAM ABDERRAHMANE	Study of the quality of life among tuberculosis patients treated at the CDTRD of Kénitra
	GROHS SOFIA GHIZLAN	Effet du Chlorure de Sodium et de Chlorhydrate de Betaine sur Pseudomonas aeruginosa dans des milieux hydriques
	HACHAD LAMIAE	Towards an Adaptive multimodal fusion based on hierarchical transformers for robust healthcare prediction
	LAZRAQ MOHAMMED	The Influence of Quality of Care and Socio-Economic Determinants on Treatment Adherence among Smear-Positive Tuberculosis Patients in Kénitra

Poster Communication Session Program

BHAI'2025

International Conference on Biology, Health & Artificial Intelligence

04–05 November 2025 – ISPITS Kenitra, Morocco

Day 1 : Tuesday 04 November 2025

Session/Topic	Session 1: Medicine & Public Health	
Chairs	HARCHAOUI Hakim, EL HOSNI Youssef, LAZRAQ Mohammed, EL FARI Radouane	
Hour	Authors	Title
14:30 PM - 15:15 PM	JAYCHE SAMIRA	The impact of the COVID-19 Pandemic on Epidemiological Surveillance and AFP Reporting
	FAHIM IMANE	Study of the relationship between early maladaptive schemas and stress in cannabis users at the Marrakech addiction center
	SENNANI SARA	Epidemiology and outcomes of myocardial infarction in young adults in Morocco
	OUHAMMOU ISMAIL	Epidemiological Analysis of Tuberculosis Relapses in Morocco: Leveraging Artificial Intelligence for Predictive Modeling
	KASDI BOUTAINA	Rôle des macronutriments dans la prise en charge nutritionnelle de l'obésité sarcopénique chez les personnes âgées : état des connaissances et perspectives
	CHTIOUI ADIL	The Legal Framework for Medical Artificial Intelligence: Toward Shared Responsibility among Developers, Practitioners, and Health Institutions
	OUZYOU BOUJEMAA	Analyse spatio-temporelle de la leishmaniose cutanée dans la province d'Ouarzazate
	BOUKTIBA KAOUTAR	De la donnée à la décision : approche holistique du diabète de type 1 via l'apprentissage automatique
	ELKOUCH ASMAE	Prevention of Diabetic Cardiomyopathy by Combined Administration of Insulin and Lemon Peel Essential Oil in Type 1 Diabetic Rats

Day 2 : Tuesday 05 November 2025

Session/Topic	Session 2: Genetics & Biochemistry Artificial Intelligence in Biology and Health Biology and Life Sciences & Environment	
Chairs	GROHS Sofia Ghizlan, HARCHAOUI Hakim, MOUDEN Samira, HADJI Mohamed	
Hour	Authors	Title
10:15 AM 11:00AM	EL KARKOURI JAMILA	Phytochemical Analysis and antioxidant properties of Ammi visnaga L. extracts from the Middle Atlas, Morocco
	BOUZAR ZAKARIA	biochemical aspects and utilization patterns of citrus aurantium among inhabitants of the beni mellal -khénifra region
	YASSINE NISRINE	Entre traditions et soins : la phytothérapie chez les séniors diabétiques au Maroc, vers une intégration de l'IA pour une pratique sécurisée
	MAKHLOUK MANAR	L'impact du statut nutritionnel maternel en période prénatale sur la sante infantile au cours des mille premiers jours
	TARCHOUN BOUCHRA	Le rebond adipocytaire précoce au cours des 1 000 premiers jours au Maroc : tendances émergentes, déterminants et apports de l'intelligence artificielle
	ZAKI RABAB	Intelligence artificielle et durabilité alimentaire : vers une stratégie intelligente pour réduire la consommation de viande rouge au Maroc
	SABBAR ABIR	La digitalisation dans le domaine de la santé : Amélioration de la communication entre le professionnel de santé en réseau hospitalier