SCIENTIFIC PROGRAM

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IC COGNITION CONFERENCES
INNOVATION AT SCIENTIFIC GATHERINGS

Joint International Conference on

Biosensors, Cancer, Women's Health, Microbiology & Advanced Medicines

Venue: Hampton By Hilton Rome North Fiano Romano, Rome, Italy

DECEMBER 1-3, 2025

SCIENTIFIC PROGRAM

08:30 – 09:00 Registration and Opening Ceremony

Keynote Forum-1

09:00 – 09:40	**Group Therapy to promote adolescent Mental Health: Clinical and empirical evidence** Zipora Shechtman, *University of Haifa, Israel*
09:40 – 10:20	**Brilliant use of radiation: Harnessing hormesis for protection and therapy** Shizuyo Sutou, *Shujitsu University, Japan*
10:20 – 11:00	**Biosensing of Blood Exocellular Vesicles for Disease Diagnosis** Chenzhong Li, *Chinese University of Hong Kong (Shenzhen), China*

Morning Refreshments and Networking Break 11:00 – 11:15

Oral Sessions 1

11:15 – 11:50	**Naturally inspired electroactive biocoatings for Biosensor Application** Maria Kuznowicz, *Poznan University of Technology, Poland*
11:50 – 12:25	**Polynorepinephrine-Based Hybrid Nanomaterial Biosensor for Portable Point-of-Care Detection** Artur Jedrzak, *Poznan University of Technology, Poland*
12:25 – 13:00	**Diagnosing the undetectable: The pivotal role of imaging in cancers of unknown primary** Daniela Messineo, *Sapienza University of Rome, Italy*

Networking and Lunch Break 13:00 – 14:00

14:00 – 14:35	**IoT platform for assessment and research on cybersecurity of smart rural environments** Daniel Sernandez Iglesias, *National University of Distance Education UNED, Spain*
14:35 – 15:10	**AI-Enabled Privacy-Preserving cybersecurity in Smart grids using federated learning and Blockchain-Based machine Learning frameworks** Nourchene Moumni, *National Engineering School of Sfax, Tunisia*
15:10 – 15:45	**Pro-Inflammatory Biomarkers associated with depression severity among adults with HIV in New York City** Joseph Belloir, *Columbia University School of Nursing, USA*

Evening Refreshments and Networking Break 15:45 – 16:00

16:00 – 16:35	**Ultrasensitive detection of mycobacterium tuberculosis cells on a smartphone** Pabitra Nath, *Tezpur University, India*
16:35 – 17:10	**What is new in the pathogenesis and treatment of IgA glomerulonephritis** Maurizio Salvadori, *Careggi University Hospital, Italy*

Networking and Day Closing

DAY 02- December 2, 2025

Keynote Forum-2

09:00 – 09:40
Contaminants of emerging concern and antimicrobial resistance: Use of nature-based solutions for a safe civil wastewater reuse
Stefano Castiglione, *University of Salerno, Italy*

09:40 – 10:20
Impedance biosensor technique for cell growth and drug reaction monitoring in real time
Moongyu Jang, *Hallym University, South korea*

10:20 – 11:00
Neurocognitive alterations in patients with Systemic Lupus Erythematosus
Juliana Rosa Pires Vieira, *Federal University of Goiás - Faculty of Medicine, Brazil*

Morning Refreshments and Networking Break 11:00 – 11:15

Oral Sessions

11:15 – 11:50
The role of Cognitive-Behavioural therapy in the emotional management of women with endometriosis and infertility
Lilian Donatti, *University of Sao Paulo, Brazil*

11:50 – 12:25
From intercountry adoption to commercial Global Surrogacy: A Human Rights Perspective
Karen S. Rotabi Casares, *California State University, USA*

12:25 – 13:00
Applying innovative tools to quantify first-flush polar pesticides and pharmaceuticals in an Eastern Mediterranean agricultural basin, identify priority source areas and determine driving factors
Felicia Orah Rein, *Ministry of Agriculture, Soil Erosion Research Station, Israel*

Networking and Lunch Break 13:00 – 14:00

14:00 – 14:35
Physics-informed machine learning for SPR biosensors
Daniel Alberto Rodriguez Reyes, *Autonomous University of Zacatecas, Mexico*

14:35 – 15:10
Disorder with purpose: ZnO random lasers for High-Sensitivity Biosensor
Mohd Mahadi Halim, *Universiti Sains Malaysia, Malaysia*

Posters Presentations 15:10 – 16:00

Po1
Prediction of performance parameters of an Spr Biosensor with Hyperbolic Metamaterial Using Machine Learning
Javier Flores Avalos, *Autonomous University of Zacatecas, Mexico*

Po2
SPR biosensor based on 2D materials for glucose detection
Ireri Aydee Sustaita Torres, *Autonomous University of Zacatecas, Mexico*

Po3
Performance parameters as a function of graphene's chemical potential for SPR biosensor based on 2D materials
Jesus Madrigal Melchor, *Autonomous University, Mexico*

Po4
An innovative system designed to detect Salmonella using aptamer technology in electrochemical applications
Sakda Jampasa, *Walailak University, Thailand*

Po5
Molecular probe for visualization of intracellular NADH Reduction in the presence of Glycolytic Inhibitor
Pooja Dhingra, *Indian Institute of Technology Mandi, India*

Networking and Day Closing

DAY 03- December 3, 2025
Online Oral Presentations

9:00 – 9:20	**Exploring the ability of emerging large language models to detect cyberbullying in social posts through new prompt-based classification approaches** **Domenico Desiato,** *University of Bari Aldo Moro, Italy*
9:20 – 9:40	**Increasing security and auditing in Multi-Cloud environments with Blockchain-Based access control and quantum biometric authentication** **Adam koty Abbass ahmat,** *Ibn Tofail University, Morocco*
9:40 – 10:00	**Does the type of Cancer Influence Anti-Mullerian hormone levels in Women of Reproductive Age?** **Carmen Imma Aquino,** *University of Piemonte Orientale, Italy*
10:00 – 10:20	**Inverse embryonic responses of in vivo and in vitro fertilized mouse embryos to vitamin B supplementation during preimplantation period with limited long-term risks** **Norermi Firzana Alfian,** *University of Yamanashi, Japan*
10:20 – 10:40	**Use of pegvaliase to treat PKU including use during pregnancy** **Laura Davis Keppen,** *University of South Dakota Sanford School of Medicine, USA*
10:40 – 11:00	**Comparing the effectiveness of two counseling interventions on postnatal post-traumatic stress disorder in single-child women with secondary tokophobia: A randomized controlled trial** **Sedigheh Abdollahpour,** *Mashhad University of Medical Sciences, Iran*
11:00 – 11:20	**Single-cell adhesion analysis using integrated single-cell optical biosensor and FluidFM force spectroscopy** **Nicolett Kanyo,** *University of Pannonia, Hungary*
11:20 – 11:40	**Mutliplexed biosensor Ddetection of Cancer Biomarkers** **Michael Thompson,** *University of Toronto, Canada*
11:40 – 12:00	**Voice as a biomarker for the early detection of depression and anxiety in primary care** **Julie Cwikel,** *Ben Gurion University of the Negev, Israel*
12:00 – 12:20	**Integrating AI & Blockchain for zero trust architectures for Cyber Defence in the Era of smart attacks** **Joshua IBIBO,** *Teesside University, UK*
12:20 – 12:40	**Tumor-Derived exosomes as therapeutic Targets: A novel Vaccination Approach** **Ray P S Han,** *Jiangxi University of Chinese Medicine, China*

Networking and Closing Online Sessions