COGNITION CONFERENCES
INNOVATION AT SCIENTIFIC GATHERINGS

Joint Event On

Stem Cell
Cell Science
Cancer
Microbiology and
Biosensors

November 18-20, 2024
Hampton By Hilton Rome North Fiano Romano,
Rome, Italy

SCIENTIFIC PROGRAM

8:30 - 9:10	**Registration and Opening Ceremony**

Keynote Forum-1

9:10 - 9:50	**Sleep Medicine in the Age of Artificial Intelligence** **Maha Alattar**, *Virginia Commonwealth University, USA*
9:50 - 10:30	**Orthobiologics for musculoskeletal disorders: Active agents, mechanisms of action and dosing as key parameters towards clinical protocols** **Nathan Katz**, *Jointechlabs inc., USA*
10:30- 11:10	**NF-kB as a central regulator of inflammation after brain injury** **Elizabeth Wright Jin**, *Thomas Jefferson University, USA*

	Refreshments and Networking Break 11:10 - 11:20
11:20 - 12:00	**Wearable Technology and Bioelectronic Epidermal Devices for Guiding Human Health and Performance** **Dhruv Seshadri**, *Lehigh University, USA*

Speaker Session

12:00 - 12:30	**Mechanism of muscle atrophy in a normal-weight rat model of type 2 diabetes established by using a soft-pellet diet** **Sayaka Akieda-Asai**, *University of Miyazaki, Japan*
12:30 - 13:00	**Shellac and locust bean gum coacervated curcumin, epigallocatechin gallate nanoparticle ameliorates diabetic nephropathy in a streptozotocin-induced mouse model** **Tanmoy Bera**, *Jadavpur University, India*
13:00 - 13:30	**Supplementation of hesperidin improves valproic acid-induced decreases in hippocampal neurogenesis linked to changes of neural stem cells and memory in rats** **Jariya Umka Welbat**, *Khon Kaen University, Thailand*

	Networking Lunch Break 13:30 - 14:10
14:10 - 14:40	**Efficacy of Nebulized GM-CSF Inhalation in Preventing Oral Mucositis in Patients Undergoing Hematopoietic Stem Cell Transplantation: A Retrospective Study** **Fenglian Luo**, *Chongqing Medical University, China*
14:40 - 15:10	**Two directional trafficking of the IFT25 protein in the developing mouse sperm flagella** **Zhibing Zhang**, *Wayne State University, USA*
15:10 - 15:40	**Two mouse Spag6 genes coordinate to control sperm formation and male fertility** **Wei Li**, *Tongji Medical University, USA*
15:40 - 16:10	**Human umbilical cord-derived mesenchymal stem cells incombination with small extracellular vesicles improve survivaland dramatically reduce fibrosis and cirrhosis in Wistar ratsreceiving CCL4** **Navneet Boddu**, *Southern California Pain Consultants Inc., USA*

	Refreshments and Networking Break 16:10 - 16:20
16:20 - 16:50	**Lessons from global alterations observed in both the genetic and epigenetic components of multicellular organisms during the multistep processes of carcinogenesis.** **Jacques de Gerlache**, *French Association of Systems Science, France*
16:50 - 17:20	**Safety and Preliminary Efficacy of SHED-CM in the Treatment of Amyotrophic Lateral Sclerosis (ALS)** **Yasuhiro Seta**, *Hitonowa Medical Clinic, Japan*
17:20 - 18:00	**Role of Mesenchymal Stem Cells in Treatment of Systemic illness** **Navneet Boddu**, *Southern California Pain Consultants Inc., USA*

Networking and Day Closing

SCIENTIFIC PROGRAM

	Keynote Forum-2
9:00 - 9:40	**Demonstration of Safety and Efficacy for Treating Knee Osteoarthritis with a Combined Intraosseous and Intraarticular Delivery of Authologous Bone Marrow Concentrate at Two-Year Follow-up** **Mitchell B. Sheinkop**, *Rush University, USA*
9:40 - 10:20	**Oncogenic Acceleration of Epithelia Driven by Alternative Splicing of the Stem Cell Factor p63** **Makoto Senoo**, *Boston University, Japan*
10:20 - 11:00	**Successes and Failures of the Utilization of CRISPR/Cas9 Technology for Humans** **Lev Fedorov**, *Oregon Health & Science University, USA*

Refreshments and Networking Break 11:00 - 11:10

	Speaker Session
11:10 - 11:40	**Systemic Lupus Erythematosus: Mesenchymal Stem Cell Therapy, Anti-Inflmmatory And Peripheral Tolerance Effects** **M Julia Barbado**, *Rio Hortega University Hospital, Spain*
11:40 - 12:10	**Use of Autologous Biologics for Treatments spine and joint disorders** **Navneet Boddu**, *Southern California Pain Consultants Inc., USA*
12:10 - 12:40	**Assessing the Impact of Bisphenols and Perfluoroalkyls on Human Pluripotent Stem Cells: Implications for Health, Development and Fertility** **Giulia Gaggi**, *University G. D'Annunzio of Chieti-Pescara, Italy*
12:40 - 13:10	**Application of machine learning to high-content microscopy reveals phenotypic changes in human dopaminergic neurons exposed to endocrine disruptors** **Andrea Di Credico**, *University "G. D'Annunzio" of Chieti-Pescara, Italy*

Networking Lunch Break 13:10 - 14:00

14:00 - 14:30	**Mobilization of Endogenous CD34+/CD133+ Endothelial Progenitor Cells by Enhanced External Counter Pulsation for Treatment of Refractory Angina** **Joseph Tartaglia**, *University of Rome, School of Medicine ,USA*
14:30 - 15:00	**A Critical Analysis of All-Cause Deaths during COVID-19 Vaccination in an Italian Province** **Alberto Donzelli**, *Allineare Sanità e Salute,Italy*
15:00 - 15:30	**Redox-probe free immunosensors towards point-of-care detections for clinical diagnostic** **Rosa Fireman Dutra**, *Federal University of Pernambuco, Brazil*
15:30- 16:00	**Mft1, identified from a yeast genome-wide screen, mediates cell cycle arrest to counteract quinoxaline-induced toxicity** **Dindial Ramotar**, *Hamad Bin Khalifa University, Qatar*

Refreshments and Networking Break 16:00 - 16:10

16:10 - 16:40	**Breast Cancer Knowledge, Attitude, and Screening Practices among Hispanic/Latino Women** **Harrindra Seepersaud**, *Walden University, USA*
16:40 - 17:10	**The siRNA-based blockade of oncogenes and other positive regulator of carcinogenesis in gastric adenocarcinoma: What's next step?** **Dyar Mudhafar Salman**, *Hawler Medical University, Iran*
17:10 - 17:40	**Advances in immunotherapy for metastatic prostate cancer** **Zhang Jingsong I**, *University of South Florida College of Medicine, USA*
17:40 - 18:10	**CYP1B1 and CYP2B6 expression in a cohort of women with breast cancer and the correlation with tumor aggressiveness and treatment outcomes** **Alexandra Acco**, *Federal University of Paraná, Brazil*

Networking and Day Closing

SCIENTIFIC PROGRAM

Keynote Forum-3

9:00 - 9:40
Challenges in Handling Pre-harvest Microbial Food Safety Hazards in Fish
Upali Samarajeewa, *University of Peradeniya, Canada*

9:40 - 10:20
Microfluidic Biosensors for Simultaneous and Multiplex Detection of Animal Health, Welfare and Food Safety Biomarkers in the Meat Chain
Ivan Nastasijevic, *Institute of Meat Hygiene and Technology, Serbia*

Speaker Session

10:20 - 10:50
Breathalyzer for rapid, direct detection of SARS-CoV-2 viral particles in exhaled breath
John R. Cirrito, *Washington University School of Medicine, USA*

Refreshments and Networking Break 10:50 - 11:10

11:10 - 11:40
Textile-based and food-based sensors for biomedical applications
Goran Stojanović, *University of Novi Sad, Serbia*

11:40 - 12:10
Development of a Bio-Field Effect Transistor Platform for Detecting miR-155 Under Physiological Conditions
Francesco Lavecchia, *Università RomaTre, Italy*

12:10 - 12:40
Structural characterization of Astragalus polysaccharide-D1 and its improvement of low-dose metformin effect by enriching Staphylococcus lentus
Jianglan Long, *Capital Medical University, China*

12:40 - 13:10
The role of the infectious diseases department in the management of antimicrobial agents: Prospective study of medical advices given by the Infectious Diseases Department of the Mohammed VI University Hospital, Marrakech
Noura Tassi, *King Mohammed VI University, Morocco*

Networking Lunch Break 13:10 - 14:00

14:00 - 14:30
Trends in immunological markers of transfusion transmissible infections among blood donors in Mamfe District Hospital, Southwest Cameroon
Sen Claudine Henriette Ngomtcho, *University of Dschang, Cameroon*

14:30 - 15:00
Detection of infectious disease biomarkers using electrical and optical based biosensors
Anil-Koklu, *ASELSAN Inc, Turkey*

15:00-15:30
Epigallocatechin Metabolite Produced by Human Intestinal Bacteria Modulates microRNA Expression and Prognosis Biomarkers in Colon Cancer Cells
Emmanuele Andrade, *University of Shizuoka, Japan*

15:30 - 16:00
In vitro and in vivo screening of bacterial species from contaminated soil for heavy metal biotransformation activity
Tinatin Doolotkeldieva, *Kyrgyz National Agrarian University, Kyrgyzstan*

Refreshments and Networking Break 16:00 - 16:20

Poster Presentations 16:20 - 17:20

Po-001
Polysaccharides extracted from tucum-do-cerrado fruits (Bactris setosa Mart) have antineoplastic effects in mice and preserve the hepatic metabolism
Alexandra Acco, *Federal University of Paraná, Brazil*

Po-002
Antibacterial properties and endothelial protection of Omental Adipose Tissue- Derived Mesenchymal Stem Cell Conditioned Medium
Adeline Castro, *Tsukuba University, Japan*

Po-003
A rare presentation of pulmonary hypertension
Nazek Abuhalaweh, *Hashemite University, Jordan*

Online Presentations

17:20 - 18:00
Obligate role for Rock1 and Rock2 in adult stem cell viability and function
Rajita Pappu, *Genentech Inc., USA*

18:00 - 18:20	**Skeletal muscle cells differentiated from urine-derived stem cells as a functional tool to investigate new players in muscle contraction/relaxation** **Maria Talmon,** *University of Piemonte Orientale, Italy*
18:20 - 18:40	**Leveraging stem cells in disease modelling, drug discovery and therapeutic development** **Thamil Selvee Ramasamy,** *Universiti Malaya, Malaysia*
18:40 - 19:00	**A Phase II Randomized, Double-Blind, Placebo-Controlled Trial on the Use of Allogeneic Adipose-Derived Mesenchymal Stem Cells for Treating Lateral Epicondylosis** **Wonbin Kim,** *Seoul National University Hospital, South Korea*
19:00 - 19:20	**Role of nanoparticulated delivery of Mesenchymal stem cells in sexual function of adult Rabbit and Adult dog : a DMED knock out experiment model in Erectile Dysfunction** **Sabin Sathyananadan,** *TATA Memorial Centre, India*
19:20 - 19:40	**Single-cell transcriptomic atlas identifies cell types associated with vascular remodeling after small- diameter artificial vascular grafts implantation** **Yongchun Cui,** *Fuwai Hospital, China*
19:40 - 20:00	**Surface decontamination effectiveness at the "Université des Montagnes" Teaching Hospital: Monitoring in the biomedical analysis laboratory** **O'Neal Youté,** *University Military Health Research Center, Cameroon*

Day 3 Closing and Award Ceremony

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