



MEDIC 2023

Medicine: Innovations and Challenges 2023

28-30 November, 2023
Tbilisi, Georgia
www.tma.edu.ge/medic2023



The conference has been accredited by EACCME® with 15 European CME credits

Host and organizer – Petre Shotadze Tbilisi Medical Academy (TMA)

Medicine, as a scientific-research field and regulated professional activity, thrives on innovative approaches and solutions to address public health challenges. The COVID-19 pandemic stands as an illustration, initiating significant scientific research from 2020 to 2022. Inspired by such success, we decided to organize a hybrid international scientific conference, "Medicine: Innovations and Challenges 2023," to further explore cutting-edge research in medicine and healthcare. This event will foster knowledge exchange, interdisciplinary collaboration, and the initiation of innovative research activities.

The primary objectives of "Medicine: Innovations and Challenges 2023" are to:

- Present the latest research findings in medicine and healthcare, with a focus on emerging fields such as stem cells, molecular oncology, neurosciences, antibiotic resistance, digital technologies, telemedicine, and artificial intelligence.
- Facilitate interdisciplinary activities, encouraging collaboration among experts from diverse medical disciplines to address complex health issues.
- Promote the initiation of innovative and interdisciplinary scientific-research projects in the field of medicine and healthcare.
- Foster national and international cooperation among event participants, leading to increased involvement in international grant projects and cluster specialization.
- Enhance the research and scientific skills of young scientists, nurturing their career development and promoting the "research for society and with society" approach.

Program

The "Medicine: Innovations and Challenges 2023" conference will be held in a hybrid form, during three days from November 28 to November 30, 2023. The program is scheduled in CET and includes the following activities:

November 28	
To attend the conference online please follow the link - https://meet.google.com/spj-jkwp-ysb	
6:30 – 6:50	Registration and ice breaking, morning coffee
6:50 – 7:00	Opening ceremony
7:00 – 9:00	Open science, doctoral program, and research evaluation standards
7:00 – 7:50	Quality of doctoral education – how to achieve it? Professor Melita Kovacevic, Zagreb University <i>TMA - at place presentation</i>
7:50 – 8:20	Reforming research assessment – its impact on doctoral education? Dr. Alexander Hasgall, EUA <i>Online presentation</i>
8:20 – 8:40	Best practices in peer review and evaluation Dr. Wolfgang Fecke, European Science Foundation <i>Online presentation</i>
8:40 – 9:00	Academic integrity in the age of AI Gibson J, Turnitin <i>Online presentation</i>
9:00 – 9:15	Coffee break and Networking

9:15 – 11:00	Neurosciences
9:15 – 10:15	Aging brain Professor Osvaldas Ruksenas, Vilnius University <i>TMA - at place presentation</i>
10:15 – 10:30	Development of 3D brain organoids for glioblastoma research <i>Arce V, Rendo LG*, Ventin LP, Klimi A, Gomez-Randulfe I, Costoya JA; University of Santiago de Compostela</i> <i>Online presentation</i>
10:30 – 10:45	Application of liposomal form curcumin and microRNA in Alzheimer disease therapy <i>Andriiash H, Tigunova Olena, Borova M, Blume Y, Shulga S*; Institute of Food Biotechnology and Genomics NAS of Ukraine</i> <i>Online presentation</i>
10:45 – 11:00	Examination of pituitary adenylate cyclase activating polypeptide (PACAP) in patients with atrial fibrillation undergoing pulmonary vein isolation <i>Toller KA*, Tamas A, Kupo P; University of Pécs</i> <i>Online presentation</i>
11:00 – 12:00	Lunch
12:00 – 13:30	Dandy Club Session <i>TMA - at place presentation</i>
12:00 – 12:30	AI in neurosurgery – Dandy TMA - <i>Isha Jain</i>: Introduction to AI in neurosurgery - <i>Helen Jose</i>: Virtual reality in neurosurgery - <i>Athira Mini</i>: AI in neuropathology in primetime surgery - <i>Aparna Prasad</i>: AI neuroscience
12:30 – 13:00	Brain-computer interfaces (BCIs) for the future of humanity – Dandy GAU - <i>Mansi Pillay</i>: Introduction and mechanism of action - <i>Sanya Singh</i>: Inventors and pioneers - <i>Mahmoud El Adhamy</i>: Goals and types of BCI - <i>Varun Dwivedi</i>: Challenges and ethical considerations - <i>Nino Dzadzamia</i>: Case studies / real-life examples - <i>Pragati Pande</i>: Future potential and conclusions
13:00 – 13:30	Rhythms of the mind: unlocking Alzheimer's mysteries through brain oscillations – Dandy CIU - <i>Chimamaka Egonu</i>: Introduction, basics of brain oscillations, oscillations & Alzheimer's – the connection - <i>Sukhmani Ashok</i>: Types of abnormal oscillations in Alzheimer's disease, gamma oscillations - <i>Abdul Rasheed Daniah</i>: Gamma & amyloid-beta, oscillations as biomarkers, other treatments targeting oscillations and future prospects
13:30 – 13:45	The effect of different parenting styles on the expression and the severity of childhood ADHD in the country of Georgia <i>Makharashvili A; Yale University School of Medicine</i> <i>Online presentation</i>
13:45 – 14:00	Coffee and Networking
14:00 – 15:00	Workshop "Patient safety" – moderator Professor Thomas Schrader, Brandenburg University of Applied Sciences <i>TMA - at place</i>
	Training "TMA at AMEE" <i>TMA - at place</i>
	Makathon "Research hypothesis" <i>TMA - at place</i>
7:00 – 14:00	Awareness posters session
	Exhibition "Medicine and Art"
November 29	
To attend the conference online please follow the link – https://meet.google.com/fsc-fwio-osf	
6:00 – 6:30	Registration and morning coffee, Networking
6:30 – 8:00	Antibiotic resistance

6:30 – 8:00	Antibiotic resistance and bacteriophage therapy Professor Mladen Krajacic, Zagreb University <i>TMA - at place presentation</i>
8:00 – 8:15	Coffee break and Networking
8:15 – 10:00	Personalized medicine and actual topics of healthcare
8:15 – 8:45	Iodine status: An endocrinologist's journey and innovative research in medicine Professor Zabulene L; Vilnius University <i>TMA - at place presentation</i>
8:45 – 9:15	Personalised Medicine Prevention: presentation of the biomarkers mapping and the concept paper of the PROPHET project Fadil E; G.A.C. Group; Perez-Gomez B; National Center for Epidemiology, Instituto de Salud Carlos III I ISCIII; Peterson SS; Karolinska Institute <i>Online presentation</i>
9:15 – 9:40	The importance of the whole-of-ecosystem collaboration for safe and secure future of digital health Karolina Mackiewicz, ECHalliance – The Global Health Connector <i>Online presentation</i>
9:40 – 10:00	Open Data and Open Science Avanco K; OPERAS <i>Online presentation</i>
10:00 – 10:45	Lunch
10:45 – 12:30	Actual topics of healthcare
10:45 – 10:55	Lipid spectrum: hidden aspects <i>Mokvanidze L, Gagua N; Tbilisi Medical Academy</i> <i>TMA - at place presentation</i>
10:55 – 11:10	The role of vitamin A supplementation on weight in obese children and adolescents <i>Dandurishvili T; Tbilisi Medical Academy</i> <i>TMA - at place presentation</i>
11:10 – 11:20	Assessment of antimicrobial stewardship and infection control indicators in regional acute-care hospitals in Latvia: interdisciplinary mixed methods research <i>Rutkovska I; Riga Stardins University</i> <i>Online presentation</i>
11:20 – 11:30	Integrative approach in management of autoimmune diseases <i>Araja D; Riga Stardins University</i> <i>Online presentation</i>
11:30 – 11:40	Human neutrophil lipocalin <i>Khuntsaria I; Tbilisi Medical Academy</i> <i>TMA - at place presentation</i>
11:40 – 11:50	Cystic fibrosis: current treatments and Georgian perspective <i>Vardosanidze N; Tbilisi Medical Academy</i> <i>TMA - at place presentation</i>
11:50 – 12:00	The use of orphan drugs in Georgia: medical study <i>Beriashvili M*, Gigiadze M, Gorgaslidze N; Tbilisi State Medical University</i> <i>TMA - at place presentation</i>
12:00 – 12:10	Whole slide images in undergraduate medical education: an innovative approach and its impact on learning process <i>Kacheishvili M*, Tabagari N, Baidoshvili A; David Tvildiani Medical University</i> <i>TMA - at place presentation</i>
12:10 – 12:30	Q&A, conclusion remarks
12:30 – 12:45	Coffee break and Networking
12:45 – 14:15	Workshop “Hints and tips to become an efficient supervisor” – moderator Professor Melita Kovacevic, Zagreb University <i>TMA - at place</i>
	Workshop "Gut-brain axis"- moderators Professor Mladen Krajacic, Zagreb University and Professor Osvaldas Ruksenas, Vilnius University <i>TMA - at place</i>
	Training “Essentials of science communication” <i>TMA - at place</i>

14:15 – 15:00	Makathon "Research methodology"
6:00 – 15:00	Awareness posters session
	Exhibition "Medicine and Art"
November 30	
To attend the conference online please follow the link - https://meet.google.com/aan-mquw-awq	
6:00 – 6:30	Registration and morning coffee, Networking
6:30 – 7:50	The use of induced pluripotent stem cells for studying disease mechanisms of rare genetic disorders Dr Silvia Albert, Radboud UMC <i>TMA - at place</i>
7:50 – 8:00	Coffee break and Networking
8:00 – 9:20	Human Papillomavirus as a healthcare issue
8:00 – 8:20	The significance of Human Papillomavirus epidemiology and the cervical cancer elimination plan of WHO Professor Andreas M Kaufmann; Charite – Universitätsmedizin Berlin <i>TMA - at place</i>
8:20 – 8:40	Cervical cancer in Georgia: real life stories told by a medical oncologist Dr Mariam Abuladze; Todua Clinic <i>TMA - at place</i>
8:40 – 9:00	Study of attitudes towards the routine childhood vaccination program, including HPV vaccination among target groups Dr Marina Topuridze; Tbilisi Medical Academy <i>TMA - at place</i>
9:00 – 9:20	MDM: Medical Data Management for HPV data Professor Schrader T; Brandenburg University of Applied Sciences <i>TMA - at place</i>
9:20 – 9:30	Coffee break and Networking
9:30 – 11:00	Workshop "Human papillomavirus infection and oncology diseases", moderator Professor Andreas M Kaufmann, Charite – Universitätsmedizin Berlin <i>TMA - at place</i> Topics to be discussed and reviewed: - Human papillomavirus (HPV) and its link to oncology - HPV vaccination - HPV screening and early detection of neoplasia - HPV in oncology research
11:00 – 11:45	Lunch
11:45 – 13:10	Challenges in healthcare
11:45 – 11:55	Case report: diagnostic challenge, updated staging and management of endometrial cancer <i>Kochiashvili G*, Khoperia A, Jokhadze T, Mezvishvili M, Gudadze M, Sarishvili M, Kharebava A, Tsintsadze K, Esakia S, Sharashenidze N, Sharashenidze A; Caucasus Medical Centre, David Tvildiani Medical University, Tbilisi Medical Academy</i> <i>TMA - at place</i>
11:55 – 12:05	The role of p16INK4a/Ki-67 dual immunostaining in cervical cytology specimen <i>Kakalashvili-Dazgnidze S*, Khardzeishvili O, Tabagari S, Salukvadze T; David Tvildiani Medical University, Georgian American University, Tbilisi State Medical University</i> <i>TMA - at place</i>
12:05 – 12:15	Awareness level of cytomegalovirus infection among women of reproductive age <i>Liparta E; Tbilisi Medical Academy</i> <i>TMA - at place</i>
12:15 – 12:25	Modern opportunities in developing neuro rehabilitation <i>Sauri M, Tbilisi State Medical University</i> <i>TMA - at place</i>
12:25 – 12:50	TMA Science Club <i>TMA - at place</i>
12:50 – 13:00	Q&A, Conclusion remarks
11:45 – 13:00	Workshop "Medical data analytics and HPV – overcoming the limits of excel with Python (and R) – moderator Professor Thomas Schrader, Brandenburg University of Applied Sciences

	<i>TMA - at place</i>
13:00 – 13:10	Coffee and Networking
13:10 – 13:40	Training “Principles of academic integrity” <i>TMA - at place</i>
	Makathon "Expected results and potential impact"
13:40 – 14:00	Closure of the event
6:00 – 13:00	Awareness posters session
	Exhibition “Medicine and Art”

