



**MODERN METHODS OF BIOVISUALIZATION
IN PHYSIOLOGY AND MEDICINE**

October 16-18, 2023, Yerevan, Armenia

**OCTOBER 16, 2023: HORIZON EUROPE,
ERA CHAIR NAR-SAR-IPH KICK-OFF EVENT**

OCTOBER 17, 2023: BIO-SEE 2023 ANNUAL MEETING

**OCTOBER 18, 2023: 80TH ANNIVERSARY OF THE L. A. ORBELI
INSTITUTE OF PHYSIOLOGY NAS RA**

October 16th, Monday

13:00-14:00 Registration

14:00-14:30 Welcoming addresses:

Prof. R. Aroutiunian, Academician-Secretary of the Division of Natural Sciences of NAS RA

Mr. V. Maragos, The head of the European Union delegation in Armenia, Ambassador, (TBC)

Dr. S. Hayotsyan, Chairman of the RA MESCS Higher Education and Science Committee (TBC)

14:30 T. Arzumanyan, Chairman, Scientific and Innovation Partnership Assistance Center, EU Horizon Europe NCP Coordinator - "Horizon Europe Programme: Opportunities Towards Excellence"

14:50 N. Ayvazyan, PhD, Prof. ERA Chair project PI (Orbeli Institute of Physiology of NAS RA, Yerevan, Armenia) - Project overview, work packages and milestones

15:10 N. Sarvazyan, PhD, Prof., ERA Chair Holder (George Washington University, USA) - Scientific part overview and directions

15:30 M. Sianozova, MD, MPH, ERA Chair Project Managing Director (Orbeli Institute of Physiology of NAS RA, Yerevan, Armenia) - Compliance environment

15:50 Welcoming remarks

16:15-17:00 Welcome reception

October 17th, Tuesday

SESSION I

09:00 COFFEE & SNACKS, REGISTRATION

9:45 **N. Sarvazyan**, PhD, Prof. /L.A.Orbeli Institute of Physiology/ USA, «Opening remarks»

10:00 **K. Anokhin**, acad. RAS /Institute for Advanced Brain Studies, MSU, Moscow, RF/
«Imaging Pavlovian conditioning at the cellular level»

10:45 **V. Spangenberg**, PhD /Scientific Center of Zoology and Hydroecology of NAS RA,
Yerevan, Armenia/ «Visualization of meiosis»

11:15 **A. Kalueff**, PhD, Prof. RAS /St. Petersburg State University, University of Sirius,
Sochi,RF/ «Zebrafish models in neuroscience: SEEing the future»

11:45 **A. Ovanoglyan**, /Orbeli Institute of Physiology of NAS RA, Yerevan, Armenia/
«Hyperspectral Imaging as a tool for avian retinal cones characterization»

12:00-13.00 pm Lunch & Poster Session

SESSION II

13:00 **B. Kramer, PhD** /Poznan University Medical Sciences, Poznan, Poland/ «Visualization
of stem cells in vivo: general considerations and pitfalls»

13:45 **R. Danilova**, PhD /American University of Armenia, Yerevan, Armenia/ «Advances in
fMRI research: Unlocking Secrets of the Brain»

14:15 **H. Arestakesyan, PhD** /SMHS, George Washington University, USA/ «Large-field-of-
view scanning electron microscopy»

14:45 **E. Baidyuk**, PhD /Institute of Cytology of the Russian Academy of Sciences,
St.Petersburg, RF/ «New metabolic strategies to overcome targeted therapy resistance of lung
cancer»

15:00-15.30 Coffee break, Certificates

SESSION III

15:30 **M. Loew**, PhD /George Washington University, USA/ «Medical Imaging Meets
AI: Possibilities and Perils»

16:15 **V. Abashkin** /Institute of Biophysics and Cell Engineering, Belarus/ «siRNA
delivery using modified gold & silver nanoparticles»

16:30 Poster contest competition

17.00 End of day

October 18th, Wednesday

SESSION I

10:00 **P. Balaban**, acad RAS /Institute of Higher Nervous Activity & Neurophysiology of RAS, Moscow, RF/ «Time and Memory»

10:45 **A. Voskanyan**, PhD /Orbeli Institute of Physiology of NAS RA, Yerevan, Armenia/ «Physiologically active substances – research and application in translational science»

11:15 **A. Sargsyan**, PhD /Orbeli Institute of Physiology of NAS RA, Yerevan, Armenia/ « A new interactive software tool for automated detection of absence seizures in human EEG»

11:45 **G. Kirakosyan**, PhD /Orbeli Institute of Physiology of NAS RA, Yerevan, Armenia/ «Development of Technology for Small Scale Production of Albumin and Normal Immunoglobulin Preparations from Human Blood Plasma: Obtaining Experimental Samples»

12.00:13.30pm Lunch & Poster Session

SESSION II

13:30 **M. Buniatyan & G. Mkrtchyan** (The House-Museum of Orbeli brothers, Tsaghkadzor)

13:45 **P. Musienko**, PhD / Sirius University of Science and Technology, Institute of Translational Biomedicine, St. Petersburg State University, RF/ "Spinal and brainstem integrative control of posture and locomotion"

14:15 **A. Khachunts**, PhD, /Orbeli Institute of Physiology of NAS RA, Yerevan, Armenia/ «SFCO Vibro-acoustic Sensors a Sensitive Tool for Investigations in Behavioral Physiology»

14:45 **V. Khachatryan**, PhD /Astghik Medical Center & Orbeli Institute of Physiology of NAS RA, Yerevan, Armenia/ «Predictive Value of CT Brain Perfusion Studies in Acute Ischemic Infarct»

15:00-15.30 Coffee break

SESSION III

15:30 **R. Petrosyan**, PhD / AUA & Orbeli Institute of Physiology of NAS RA, Yerevan, Armenia/ «DNA base stacking energies: still a mystery after 70 years»

16:00 **N. Ayvazyan**, PhD /Orbeli Institute of Physiology of NAS RA, Yerevan, Armenia /«ABO blood group: the neglected player in toxinology and beyond»

16:25 **V. Grigoryan** /Orbeli Institute of Physiology of NAS RA, Yerevan, Armenia / «Refining the methods for nerve regeneration»

16:40 **Shipilov V.N.**, PhD /Institute of Evolutionary Physiology & Biochemistry after Sechenov of RAS, St. Petersburg, RF/ «Towards a unified platform for biovisualization at the Shared research facility of the Sechenov institute of evolutionary physiology and biochemistry RAS»

17:00 Round Table: «HOW TO PROMOTE SCIENCE IN THE REGION UNDER CONTEMPORARY CHALLENGES»

17:30 Award ceremony of poster and image competition

18:00 Closing remarks

October 19th, Thursday

Networking & Social Program

SCAN ME
TO SEE
AGENDA
ONLINE

