

# EPIGENETICS

& MALE REPRODUCTIVE HEALTH



March 29, 2023  
Croatian Physicians Association  
Šubićeva ul. 9, HR-10000 Zagreb

## Symposium Program

Symposium organized in the frame of the  
Installation Research Project epiPro

09:30-10:00 Registration

10:00-10:05 **Opening**

10:05-10:25 5 years of epiMark

*Assoc. Prof. Nino Sincic, PhD, Department of Biology, University of Zagreb School of Medicine*

10:25-10:45 Male infertility: can we prevent it?

*Prof. Davor Ježek, PhD, Department of Histology and Embryology, University of Zagreb School of Medicine*

10:45-11:00 Epidemiology of cancers of male genital organs in Croatia

*Assist. Prof. Mario Šekerija, PhD, Division for Epidemiology and Prevention of Noncommunicable Chronic Diseases, Croatian Institute of Public Health*

### Testicular tumours session

11:00-11:10 Clinical challenges in the approach to patients with testicular cancer

*Prof. Igor Tomašković, PhD, Clinic for Urology, Sestre milosrdnice University Hospital Center*

11:10-11:20 Epigenetic mechanisms in development and progression of testicular cancer: an answer to unsolved questions?

*Assist. Prof. Stela Bulimbašić, PhD, Clinical Department of Pathology and Cytology, University Hospital Center Zagreb*

11:20-11:30 Biology of testicular germ cell tumors from an epigenetic perspective

*Assist. Dajana Krsnik, Department of Biology, University of Zagreb School of Medicine*

11:30-11:45 Cell-Free DNA Methylation of RASSF1A and PRSS21 in Patients with Testicular Nonseminomas

*Sen. Assist. Jure Krasić, PhD, Croatian Institute for Brain Research, University of Zagreb School of Medicine*

11:45-12:00 Novel seminoma biomarkers from liquid biopsies

*Sen. Assist. Dora Raos, PhD, Department of Biology, University of Zagreb School of Medicine*

12:00-12:15 General discussion

12:15-13:15 Lunch

### Prostate cancer session

13:15-13:25 Challenges in diagnostics and follow up of patients with prostate cancer

*Tomislav Kuliš, PhD, Department of Urology, University Hospital Centre Zagreb*

13:25-13:35 Prostate cancer - diagnosis, therapy, prognosis - challenges in the new era of pathology

*Assist. Prof. Monika Ulamec, PhD, Ljudevit Jurak Clinical Department of Pathology and Cytology, Sestre milosrdnice University Hospital Center*

13:35-13:45 Genomic instability of prostate cancer cells: from germline mutation to epigenetic reprogramming

*Assoc. Prof. Ana Katusić Bojanac, PhD, Department of Biology, University of Zagreb School of Medicine*

13:45-14:00 Potential of cfDNA methylation as minimally-invasive prostate cancer biomarker

*Lucija Škara, PhD, Epigenetic Biomarkers of Prostate Cancer project*

14:00-14:15 Epigenetic biomarkers of prostate cancer in liquid biopsies: novel approach in discriminating it from benign prostatic hyperplasia

*Sen. Assist. Irena Abramović, PhD, Department of Biology, University of Zagreb School of Medicine*

14:15-14:30 General discussion

14:30-15:00 Coffee break

### Epigenetic research collaboration session

15:00-15:15 New perspectives for cholinesterase-based ligands research

*Maja Katalinić, PhD, Biochemistry and Organic Analytical Chemistry Unit, Institute for Medical Research and Occupational Health*

15:15-15:30 Biomarker potential of N-glycosylation or Sweet side of biomarkers

*Prof. Olga Gornik Kljajić, PhD, Department of Biochemistry and Molecular Biology, University of Zagreb Faculty of Pharmacy and Biochemistry*

15:30-15:45 Genetic and epigenetic markers as indicators of aggressiveness of differentiated thyroid cancer

*Assoc. Prof. Ivan Šamija, PhD, Department of Oncology and Nuclear Medicine, Sestre milosrdnice University Hospital Center*

15:45-16:00 Effects of diving with compressed air on markers of function and integrity of the nervous and cardiovascular system, as well as hormonal and immune status and erythropoiesis

*Assist. Prof. Marko Žarak, PhD, Clinical Department of Laboratory Diagnostics, Dubrava University Hospital*

16:00-16:15 The role of regulatory genomics in human disease

*Anja Barešić, PhD, Division of Electronics, Laboratory for Machine Learning & Knowledge Representation, Ruđer Bošković Institute*

16:15-16:30 Closing



HDPSM



IN ORGANIZATION OF

epiMark

Scientific Group for  
Research on Epigenetic Biomarkers