







Gerontomics Workshop, August 30th 2021, Online meeting

Join Zoom meeting (**meeting will be recorded**):

<https://zoom.us/j/99812774134?pwd=MER5RjZyVkduZ25hSkorVDFHOEpWZz09>

Meeting ID: 998 1277 4134 | Passcode: 142561

Agenda (hours are in EEST time, Bucharest time)

11:00	Dr. Robi Tacutu	IBAR, Romania	Welcome and overview of the Gerontomics project
Development of bioinformatics tools and resources			
11:20	Dr. Andrei Lazar	RSB, Romania	MetaboAge DB: a repository of known ageing-related changes in the human metabolome
11:35	Gabriela Bunu	IBAR, Romania	SynergyAge, a curated database for synergistic and antagonistic interactions of longevity- associated genes
<div> Coffee break (11:50 - 12:15) </div>			
Data analysis and machine learning			
12:15	Vlad Constantinescu	IBAR, Romania	The Bucharest Pile and flat representations
12:35	Anton Kulaga	IBAR, Romania	Machine Learning Analysis of Longevity-Associated Gene Expression Landscapes in Mammals
12:45	Vladyslava Tyshchenko	SoftServe, Ukraine	
12:55	Rodrigo Guinea	Pontificia, Peru	
Lunch break (13:05 - 14:00)			
Ageing-related analyses			
14:00	Prof. Khachik Muradian	IoG, Ukraine	Life span extension and rejuvenation: Who is who?
14:15	Dr. Ioan Matei	IBAR, Romania	Knock-down of odr-3 and ife-2 additively extends lifespan and healthspan in C. elegans
14:35	Dr. Dmitri Toren	IBAR, Romania	Gray whale transcriptome reveals longevity adaptations associated with DNA repair and ubiquitination
<div> Coffee break (14:55 - 15:10) </div>			
15:10	Prof. Joao Pedro de Magalhaes	UoL, UK	A multidimensional systems biology analysis of cellular senescence in aging and disease
15:30	Dr. Cyril Lagerger Dr. Eugen Ursu	UoL, UK IBAR, Romania	scAgeCom: a murine atlas of age-related changes in intercellular communication inferred with the package scDiffCom
15:50	Prof. Vadim Fraifeld	BGU, Israel	Small molecules, great hopes
16:10	Dr. Hagai Yanai	NIH, US	Longevity genes and interventions; Lung fibrosis-related genes in the bleomycin mouse model Rat blood profile predicts age and defines an aging intervention period
16:35	Dr. Robi Tacutu	IBAR, Romania	Workshop concluding remarks

Participating entities:

- **IBAR** - Systems Biology of Aging Group, Institute of Biochemistry of the Romanian Academy, Bucharest, Romania
- **RSB** - Reverse Senescence Biotechnologies SRL, Campia Turzii, Romania
- **Softserve** - SoftServe Inc, Dnipro, Ukraine
- **Pontificia** - Escuela de Postgrado, Pontificia Universidad Católica del Perú, San Miguel, Peru.
- **IoG** - Life Span Prolongation Group, Institute of Gerontology, Kiev, Ukraine
- **NIH** - National Institute on Aging, Baltimore, MD, USA
- **UoL** - Integrative Genomics of Ageing Group, Institute of Life Course and Medical Sciences, University of Liverpool, Liverpool, UK
- **BGU** - Ben-Gurion University of the Negev, Beer-Sheva, Israel