BIRAX UK-Israel

Healthy Ageing Conference

A cross-disciplinary brainstorming conference for the benefit of society

Nov. 3-4, 2021

Conference took place at the Museum of Natural History
Tel Aviv University, Tel Aviv

Plenary Lectures
Prof. Sarah Harper
Prof. Baroness Susan Greenfield

Sessions Include
Molecular Ageing, Ageing in Society, Age-Associated Diseases & Interventions, Quality of Life, Translating to the Future, Mechanisms & Models of Ageing

LINK for VOD recordings

Chairs: Prof. Karen B. Avraham, Prof. Dame Linda Partridge, Prof. Peter St. George-Hyslop, Dr. Daniel Bar

Israel Academic Committee: Prof. Ehud Cohen, Prof. Illana Gozes, Dr. Mira Marcus-Kalish, Prof. Dov Shmotkin

UK Academic Committee: Prof. Sarah Harper, Prof. Karen Steel, Dr. Richard Siow
Opening remarks

- Avi Domb, Chief Scientist of the Israeli Ministry of Innovation, Science and Technology
- Dan Peer, Vice President for Research and Development, Tel Aviv University
- Dame Linda Partridge, Max Planck Institute for Biology of Aging, Cologne and UCL
- Karen B. Avraham, Vice Dean, Faculty of Medicine, Tel Aviv University
- Yaniv Assaf (TAU) - Microstructural MRI of the ageing brain (BIRAX Awardee with Heidi Johansen-Berg, University of Oxford)

PLENARY LECTURE

Chair: Mira Marcus-Kalish
Sarah Harper (University of Oxford)
Framing the problem: challenges of ageing

Session 1: Age-Associated Diseases I

Chair: Richard Siow (KCL)

- Illana Gozes (TAU) – A new look at Alzheimer’s disease: diagnosis and treatment toward healthy ageing
- Nir Giladi (TAU & TASM) – The effect of ageing in Parkinson’s Disease
- Johannes Attems (Newcastle University) - Multimorbidity of the ageing brain

Session 2: Tools to Examine Ageing

Chair: Maram Ganaiem (TAU)

- Tunde Peto (QUB) & Dinah Zur (TASM/TAU) - Algorithms for diagnosis and management of age-related macular degeneration (BIRAX Awardee) with Anat Loewenstein, TASM/TAU

Session 3: Ageing in Society

Chair: Nati Blum (EMDA)

- James Stark (U Leeds) – History of age and aging
- Manuel Trajtenberg (TAU) – Socio-economic agenda
- Sharon Toker & Hadar Freidin (TAU) – Survival of the fittest? Older employees’ well-being
- Dafna Hacker (TAU) – Inheritance law and the challenge of securing care in old age: A three-pronged solution

Session 4: Regeneration

Chair: Omer Bender (TAU)

- Eli Keshet (HUJI) - Vascular ageing, rejuvenation and healthspan extension (BIRAX Awardee with Manuel Mayr, KCL)
- Bjoern Neumann (University of Cambridge), Amnon Buxboim (HUJI) - Regenerative capacity of adult CNS progenitor cells (BIRAX Awardee with Robin Franklin, University of Cambridge)

Session 5: Mechanisms of Ageing

Chair: Danielle Galber (TAU)

- Anat Ben-Zvi (BGU) – The landscape of molecular chaperones is modulated in aging
- Valery Krizhanovsky (WIS) – Molecular mechanisms of senescence on the crossroads of cancer and aging
- Joao Pedro De Magalhaes (University of Liverpool) – The genetics of ageing
Session 6: Quality of Life
Chair: Silvia Koton (TAU) (sponsored by Herczeg Institute)

- Stephen Harridge (KCL) – Declining performance of athletes: the trajectory of healthy human ageing
- Avi Ohry (TAU) – Premature ageing among young people with disabilities
- Martin Hyde (Swansea U) – Quality of life, health inequalities, retirement and consumption in later life
- Ludovico Carrino (KCL) – Early career talk - Should I care or should I work: how do pension policies affect older workers’ wellbeing and intergenerational connections?

Session 7: Models of Ageing
Chair: Mellissa Barber (KCL)

- Karen Steel (KCL) – Deafness in humans & mice
- Ehud Cohen (HUJI) – The orchestration of proteostasis across the organisms – what have we learned from the worm?
- Uri Ashery (TAU) – Hyperbaric oxygen therapy alleviates vascular dysfunction and amyloid burden in an Alzheimer’s disease mouse model

Session 8: Molecular Ageing
Chair: Reut Bruck (HUJI)

- Daniel Z. Bar (TAU) – Lamins, metabolism and ageing
- Ehud Gazit (TAU) – Amyloid fibrils in metabolic disorders and neurodegenerative diseases

Session 9: More Age-Related Diseases
Chair: Noham Wolpe (TAU)

- Melody Kasher (TAU, Gregory Livshits) – Early career talk - Shared genetic architecture between rheumatoid arthritis and varying osteoporotic phenotypes in the ageing population
- Lynn Cox (University of Oxford) - Age-related bone fragility in type 1 diabetes (BIRAX Awardee with Rivka Dresner-Pollak (HMC)

Session 10: Translating to the future
Chair: Karen Avraham (TAU)

- Anne Schilder (UCL) - Clinical trials for hearing loss in elderly
- Sir Michael Marmot (UCL) – Build back fairer: Lessons from the pandemic for health and wellbeing
- Concluding remarks