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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

PLENARY LECTUREChair: **Mira Marcus-Kalish****Sarah Harper** (University of Oxford)*Framing the problem: challenges of ageing***More opening remarks**His Excellency UK Ambassador **Neil Wigan** OBE**Stevie Spring** CBE, Chairman, Board of Trustees, British Council**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 & TASMIC) – *The effect of ageing in Parkinson's Disease*
- **Johannes Attems** (Newcastle University) - *Multimorbidity of the ageing brain*

Session 2: Tools to Examine AgeingChair: **Maram Ganaiem** (TAU)

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

- **Yaniv Assaf** (TAU) - *Microstructural MRI of the ageing brain* (BIRAX Awardee with **Heidi Johansen-Berg**, University of Oxford)

Session 3: Ageing in SocietyChair: **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: RegenerationChair: **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 AgeingChair: **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 LifeChair: **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 AgeingChair: **Melissa 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 DiseasesChair: **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 futureChair: **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