

JOINT ISRAEL/UK WORKSHOP ON PATHWAYS IN AGEING, PREMATURE AGEING AND DNA DAMAGE

Organizers: Michal Goldberg, Chris Hutchison, Amos Simon and David Weinkove

**Supported by: Academic Study Group on Israel and the Middle East, London, UK ;
The Dyna and Fala Weinstock Charitable Trust, London, UK ; Faculty of Science and
Engineering, Durham University, UK**

26-27 April, 2010

**Faculty Club, The Institute of Life Sciences, The Hebrew University, Edmond J. Safra
Campus, Givat Ram, Jerusalem, Israel**

Monday, April 26, 2010

09:20-09:25 **Welcome** by Amos Simon

09:25-09:40 John Levy, Academic Study Group on Israel and the Middle East

CELLULAR SENESENCE – Chair Chris Hutchison

09:40-10:05 Richard Faragher (University of Brighton, UK) Senescent cells cause ageing and Werner's syndrome: definitely maybe

10:05-10:30 Rachel Sarig (Weizmann Institute, Israel) p53 plays a pivotal role in preventing malignant transformation of reprogrammed cells

10:30-10:55 Thomas von Zglinicki (Newcastle University, UK) Mitochondria and telomeres: strange bedfellows in cell senescence

10:55-11:20 Haim Cohen (Bar Ilan University, Israel) MOSES (-Mice Overexpressing Exogenous SIRT6), a model for the role of metabolism and genome stability in longevity

11:20-11:45 **Coffee break**

OXIDATIVE STRESS AND PROTEIN MIS FOLDING – Chair Yosef Gruenbaum

11:45-12:10 Chris Hutchison (Durham University, UK) Lamin A is a redox sensor that regulates entry into a senescent state

12:10-12:35 Ehud Cohen (Hebrew University, Israel) The heat shock factor 1 as a lifespan and proteostasis regulator in *C. elegans*

12:35-13:00 Elizabeth Veal (Newcastle University, UK) Peroxide-signalling mechanisms in stress responses and ageing

13:00-14:30 **Lunch**

DNA DAMAGE RESPONSE – Chair Thomas von Zglinicki

14:30-14:55 Yosef Shiloh (Tel Aviv University, Israel) The ATM-mediated DNA damage response: Where neurodegeneration, cancer and ageing cross paths

14:55-15:20 Michal Goldberg (Hebrew University, Israel) A novel connection between the DNA damage response and V(D)J recombination

15:20-15:45 John Rouse (University of Dundee, UK) New players in the repair of DNA interstrand crosslinks

15:45-16:10 **Coffee break**

16:10-16:35 Vincenzo Costa (CR-UK, Clare Hall Labs, UK) ATM-dependent regulation of pathways promoting cell survival

16:35-17:00 Nabieh Ayoub (Technion, Haifa, Israel) Dissecting the role of Rad51 binding to the C-terminus of BRCA2

20:00 **Speaker's dinner (leaving the hotel at 19:45)**

Tuesday, April 27, 2010

GENETICS AND PREMATURE AGEING – Chair Yosef Shiloh

- 09:00-09:25 Stavit Shalev (Ha'emek Medical Centre, Afula, Israel) The clinical picture of syndromes associated with DNA damage and premature aging
- 09:25-09:50 Penelope Mason (University of Oxford, UK) The role of WRN in promoting genome stability and preventing premature ageing
- 09:50-10:15 Batsheva Kerem (The Hebrew University, Israel) The role of fragile sites in chromosomal instability and cancer development
- 10:15-10:40 Eran Meshorer (The Hebrew University, Israel) Delineating the mechanisms regulating chromatin protein dynamics in embryonic stem cells

10:40-11:05 **Coffee break**

GENE EXPRESSION AND EPIGENETIC PATHWAYS IN AGEING – Chair David Weinkove

- 11:05-11:30 Amos Simon (Sheba Medical Centre, Israel) Transcriptional repression through epigenetics by LAP2 β : a role in aging and cancer
- 11:30-11:55 Joanna Bridger (Brunel University, UK) Chromosome behaviour in normal and progeria Fibroblasts
- 11:55-12:20 Amir Eden (The Hebrew University, Israel) Epigenetic aberrations in cancer

12:20-14:00 **Lunch**

ORGANISMAL AGEING – Chair Batsheva Kerem

- 14:00-14:25 Athanasios Metaxakis (Max Planck Institute for Biology of Ageing, Cologne) Insulin signalling regulation of behaviour in Drosophila: Sleep, Activity and Rhythmicity.'
- 14:25-14:50 David Weinkove (Durham University, UK) Understanding links between diet and ageing using the nematode *C. elegans*
- 14:50-15:15 Yosef Gruenbaum (Hebrew University, Israel) Regulation of gene expression and aging by the nuclear lamina in *C. elegans*.

15:15-15:40 **Coffee break**

- 15:40-16:05 Colin Selman (University of Aberdeen, UK) Extended healthy lifespan in mammals: Is there a common mechanism?
- 16:05-16:30 Sivan Henis-Korenblit (Bar Ilan University Israel) Insulin/IGF-1 signaling alters the ER stress response to affect longevity.

16:45-18:00 **Discussion about funding opportunities**

20:00 **Speaker's dinner (leaving the hotel at 19:40)**

Wednesday (28th April); Thursday (29th April) – Tours to Jerusalem and Dead Sea, UK participants.

הזמנה זו מהווה אישור כניסה חד-פעמי לקמפוס גבעת רם