



THE
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האקדמיה הלאומית הישראלית למדעים
المجمع الوطني الإسرائيلي للعلوم والآداب
THE ISRAEL ACADEMY OF SCIENCES AND HUMANITIES



The Israel Academy of Sciences and Humanities
and the Royal Society

cordially invite you to a
Bi-National Research Symposium,
supported by the Kohn Foundation, on

האקדמיה הלאומית הישראלית למדעים
והחברה המלכותית הבריטית

מתכבדות להזמין אתכם
לסימפוזיון מחקר דו-לאומי,
בסיוע Kohn Foundation, בנושא

Genome Stability and Dynamics

**Monday-Tuesday,
March 26–27, 2018**

at the Academy, Albert Einstein Square,
43 Jabotinsky Street, Jerusalem

On-street parking is generally available in the vicinity of the Academy

Please confirm participation to
Ms. Ayelet Klartag: ayeletk@post.tau.ac.il

בימים ב' עד ג', י' עד י"א בניסן תשע"ח
27–26 במרס 2018

בבית האקדמיה, כיכר אלברט איינשטיין
רחוב ז'בוטינסקי 43, ירושלים

חניה ציבורית ברחובות הסמוכים לאקדמיה

נא לאשר השתתפות לגב' איילת קלרטג:
ayeletk@post.tau.ac.il

PROGRAM

Monday, March 26 2018

- 08:45 **Gathering**
09:15 **Greetings**
Prof. Nili Cohen, President, Israel Academy of Sciences and Humanities

Session I

Session Chair: Yossi Shiloh

- 09:30 **Yossi Shiloh**, Tel Aviv University
New Arms of the DNA Damage Response
- 10:00 **Keith Caldecott**, University of Sussex
A Novel Role for Poly(ADP-ribose) Polymerase Activity During Normal Cellular Metabolism
- 10:30 **Rami Aqeilan**, The Hebrew University of Jerusalem
Mapping the Breakome in Cancer Cells: Lessons and Future Directions
- 11:00 Coffee Break
- 11:30 **Jessica Downs**, University of Sussex
Cohesin Functions at DNA Double Strand Breaks Throughout Interphase to Repress Nearby Transcription and Promote Accurate Repair
- 12:00 **Batsheva Kerem**, The Hebrew University of Jerusalem
The Different Layers Regulating Genomic Instability in Cancer
- 12:30 **Madalena Tarsounas**, University of Oxford
A Pharmacological Screen Identifies Drugs that Selectively Target Brca1/2-Deficiency and Counteract Drug Resistance
- 13:00 **Nabieh Ayoub**, Technion - Israel Institute of Technology
NELF-E and CDYL1: Two Novel Players for Switching Off Transcription at DNA Damage Sites
- 13:30 Lunch Break and Poster Session

Session II

Session Chair: Steve West

- 15:00 **Steve West**, The Francis Crick Institute
Unresolved Recombination Intermediates Lead to a Novel Class of Ultra-Fine Anaphase Bridges, Chromosome Breaks and Aberrations
- 15:30 **Martin Kupiec**, Tel Aviv University
The Many Roles of Elg1 in The Maintenance of Genome Stability
- 16:00 **Ivan Ahel**, University of Oxford
Protein ADP-ribosylation in Regulation of DNA Repair
- 16:30 **Sheera Adar**, The Hebrew University of Jerusalem
The Effect of Chromatin Context on Dna Repair: A high-resolution genomics study
- 17:00 **Ketan J Patel**, LMB, Cambridge
Alcohol-Derived and Endogenous Aldehydes Rearrange Chromosomes and Mutate Stem Cell Genomes

Tuesday, March 27 2018

Session III

Session Chair: Martin Kupiec

- 09:00 **Steve Jackson**, University of Cambridge
Cellular Responses to DNA Damage: From mechanistic insights to applications in cancer therapy
- 09:30 **Deborah Toiber**, Ben-Gurion University
Neuroprotective Functions for the Histone Deacetylase Sirt6
- 10:00 **Philip Zegerman**, University of Cambridge
Regulation of DNA Replication by Checkpoint Kinases after Damage and During Vertebrate Development
- 10:30 Coffee Break
- 11:00 **Yuval Ebenstein**, Tel Aviv University
Single-molecule Visualization of DNA Damage and Epigenetic Transformations
- 11:30 **Jesper Svejstrup**, The Francis Crick Institute
A Ubiquitylation Site in RNA Polymerase II that Regulates the Transcriptional Response to UV Damage
- 12:00 **Zvi Livneh**, Weizmann Institute
Harnessing DNA Repair for Risk Assessment and Early Detection of Lung Cancer
- 12:30 **Timothy Humphrey**, University of Oxford
Histone H3K36 Trimethylation, Genome Stability and Cancer
- 13:00 Lunch Break and Poster Session

Session IV

Session Chair: KJ Patel

- 14:30 **Michal Goldberg**, The Hebrew University of Jerusalem
Spiroolactone Inhibits DNA Double-Strand Repair and Targets Cancer and Cancer Stem Cells
- 15:00 **Anne Ferguson-Smith**, University of Cambridge
Variable Silencing of the Repeat Genome – Implications for Non-Genetic Inheritance
- 15:30 **Judith Berman**, Tel Aviv University
Genome Dynamics in Response to Drug Stress
- 16:00 **Rita Cha**, Bangor University
Essential Function of Mec1^{ATM/ATR} in Protein-homeostasis
- 16:30 **Michael Milyavsky**, Tel Aviv University
Characterizing Human Hematopoietic Stem Cells Response to DNA Damage