## ISEB 2023 Programme



Sunday 2/4

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| eling the effect of aneuploidy on cancer evolution   |
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| Behavioral evolution (Chair: Shay Stern)   |
| Stern nization of long-term behavior and individuality across  |
| lopmental timescales   |
| ch Golov   |
| an automatic pilot: The important role of sexual selection on  |
| gation performances of nocturnal moths   |
| antitative multi-trait approach is consistent with a major   |
| utionary transition rather than stepwise increased social  |
| plexity in bees  |
| Privman  |
| ution of supergenes: lessons from social chromosomes   |
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| Human evolution (Chair: Assaf Marom)   |
| f Marom  |
| facial motor system: a human evolutionary viewpoint  |
| ne Slon  |
| king past human dispersals using sedimentary ancient DNA   |
| to a devide  |
| ie Golomb<br>autonomous evolutionary adaptation  |
| autonomous evolutionally auaptation  |
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| m Ben-Oren   |
| differential spread of neutral and adaptive cultural traits  |
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## Monday 3/4

|       | Wionday 3/4 Hecht Au  | ditorium  |       |
|-------|---|---|-------|
| 09:00 | KEYNOTE: Da   |   | 09:00 |
|       | Copy number variants alter local  |   |       |
| 10:00 | Coffee break  |   |       |
|       | Floor 30  | Floor 29  |       |
| 10.15 | Ecology and evolution (Chair: Lee Koren)  | Experimental evolution (Chair: Lianet Noda-Garcia)  | 40.45 |
| 10:15 | Lee Koren Sex, testosterone, and fitness in wild rock hyrax   | Lianet Noda-Garcia Metabolic plasticity confounds evolutionary predictability   | 10:15 |
| 10:40 | Michal Segoli   | Ignacio José Melero-Jimenez   | 10:40 |
|       | What is the secret of success of the invasive brown widow spider  | Environmental stress leads to mutualism breakdown and   |       |
|       | Latrodectus geometricus?  | biodiversity loss in a simplified bacterial community   |       |
| 10:55 | Yael Lubin  | Nittay Meroz  | 10:55 |
|       | Sib-mating enhances fitness in a haplodiploid beetle  | Evolutionary adaptations in microbial microcosms are largely independent of the presence of coevolving species          |       |
| 11:10 | Akiva Topper  | Ran Friedman  | 11:10 |
|       | Accumulation of deleterious alleles may be slower in r-selected   | Internal tandem duplications in FLT3 and how they lead to gain-   |       |
| 11:25 | species than commonly predicted  Coffee   | of-function of a tumour promoting phenotype   | 11:25 |
| 11:45 | Tamar Guy-Haim  | Roni Rak  | 11:45 |
|       | Marine copepods and their microbiome as water mass bioindicators  | From unicellularity to multicellularity and back - cultured meat at   |       |
| 40.40 |   | the crossroad   |       |
| 12:10 | Ally Harari Rapid evolutionary changes in a sexual trait in response to   | Amit Zirman The second domestication of cattle: evolving bovine mesenchymal   | 12:10 |
|       | anthropogenic interference: The case of the pink bollworm in  | stem cells for cultured meat applications by genome wide CRISPR   |       |
|       | cotton fields   | screen  |       |
| 12:25 | Shevy Waner Rips  | Georgii Bazykin   | 12:25 |
|       | Behavioural adaption of the pink bollworm moth in response to the mating disruptive technique used in cotton fields         | Mutation bias in driver genes reveals the distribution of fitness effects of oncogenic mutations                        |       |
| 12:40 | mating disruptive technique used in cotton neids  | effects of offcogenic mutations   | 12:40 |
|       | Lunch break + Poster session  |   |       |
|       |   |   |       |
| 14:10 | Plant evolution (Chair: Sariel Hübner)  Sariel Hübner   | Evolutionary medicine (Chair: Hila May) Hila May  | 14:10 |
| 14.10 | Genomic landscapes of adaptation to future climate: wild barley as a model  | The evolutionary root of frequent modern human disorders  | 14.10 |
| 14:35 | Pnina Cohen   | Helena Gondra   | 14:35 |
|       | Ancient DNA from a lost Negev Highlands desert grape reveals a  | An evolutionary perspective on osteoporosis development   |       |
| 14:50 | Late Antiquity wine lineage  Keren Halabi   | Christina Cavanati  | 14:50 |
|       | Characterization of polyploidy in plants using extensive ploidy   | Using multi-scale genomics to associate poorly annotated genes  |       |
|       | inference based on chromosome number  | with rare diseases  |       |
| 15:05 | David Lerner  The role of the differential transcal temperate evalutioners.   | Sarah Borgel  | 15:05 |
|       | The role of the differential tropical-temperate evolutionary potential of tree species on their current global distribution | Evolutionary perspective of disease and social solidarity in past populations: the example of a Nabataean Nobleman from |       |
|       | ,   | Yotvata, Israel   |       |
| 15:20 | Coffee  |   | 15:20 |
| 15:40 | Molecular evolution (Chair: Einat Hazkani-Covo)  Einat Hazkani-Covo   | Pop-gen (Chair: Rachel Ben-Shlomo)  Rachel Ben-Shlomo   | 15:40 |
| 10.40 | Compensatory frameshifts are common in Saccharomyces  | Genetic diversity, chimerism, and invasiveness in the   | 10.40 |
|       | cerevisiae genes  | protochordate Botryllus schlosseri  |       |
| 16:05 | Fabrizio Mafessoni  | Yonatan Bendett   | 16:05 |
|       | Characterizing the mechanisms at the origin of short structural variation across species                                    | Non-violent conflict resolution: a role for microbes?   |       |
| 16:20 | Noa Aharon-Hefetz   | Nurit Eliash  | 16:20 |
|       | Discovering the role of tRNA-codon usage adaptation in viral  | A modified reproductive strategy increases parasitic mite   |       |
| 16.25 | infection   | adaptivity  | 46.05 |
| 16:35 | Mickey Kosloff Computational prediction of divergent ant olfactory receptor   | Noa Yaffa Kan Genetic contribution of Asiatic wild ass males in response to   | 16:35 |
|       | binding sites   | changes in water-source distribution in the Negev highlands   |       |
| 16:50 | Coffee  | break   | 16:50 |
| 17:10 | Hecht Auditorium  |   |       |
| 17.10 | KEYNOTE: N<br>Sex, conflict and   |   | 17:10 |
| 18:10 | Prizes and conc   | luding remarks  | 18:10 |
| 18:40 |   |   | 18:40 |
| . 5 0 | After (   | party   | .5    |
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