



SMBE 2024

PUERTO VALLARTA

PRELIMINARY PROGRAM

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|---------------------------|---|---|---|--|---|--|
| Day 1 | | Sunday 7 July | | | | |
| 11:00-16:00 | Workshop Online "Introduction to programmatic access to EnsEMBL" | | | | | |
| 12:00-14:00 | Workshop On site "Introduction to STDPOPSIM workshop" (Popgen) | | | | | |
| 14:00-16:00 | Workshop On site "GENHIST kickoff at SMBE" (Popgen) | | | | | |
| 14:00-18:00 | Registration | | | | | |
| 18:00-19:00 | Plenary Lecture | | | | | |
| 19:00-20:00 | Welcome Cocktail | | | | | |
| Day 2 | | Monday 8 July | | | | |
| 9:00-11:00 | Plenary - Graduate Student Excellence Awards | | | | | |
| 11:00-11:30 | COFFEE BREAK | | | | | |
| 11:30 - 13:20 110 min. | Associate Editors' Symposium | IDEA symposium | Not just Ne Ne-more: New applications for SMC from ecology to phylogenies | Clustering of human cohorts beyond race and ancestry: Towards relational thinking in genomics | Greener and Sustainable Computing in Molecular Evolution: Methods, Algorithms, Tools, and Protocols | |
| 13:20-14:20 | LUNCH BREAK | | | | | |
| 14:20 - 15:50 | Poster session 1 Event: MBE editors meeting | | | | | |
| 15:50 - 18:10 140 min. | Progress and challenges for understanding the molecular evolution of sex chromosomes across Eukarya | Exploring the Evolutionary Effects of Admixture | Unlocking the hidden dimensions of genomic diversity within species | Structural phylogenetics: investigating deep evolutionary history using protein structure | Human evolution in the genomic | |
| 20:00-22:00 | Event: MBE Editors dinner | | | | | |
| Day 3 | | Tuesday 9 July | | | | |
| 9:00-10:00 | Plenary | | | | | |
| 10:00-10:30 | COFFEE BREAK | | | | | |
| 10:30 - 12:20 110 min. | Exploring the Frontiers of Single-Cell Biology in Diverse Organisms | Science in the Spotlight: Empowering Education and Public Engagement with Cutting-Edge Science in Molecular Evolution | Aging from a multidisciplinary overview: evolution, longevity and biomedicine | Haplotype-based methods and frameworks for inference of evolutionary history | Everything that is old becomes new: comparative genomics and museum specimens | |
| 12:20-13:20 | LUNCH BREAK | | | | | |
| 13:20 - 14:50 | Poster session 2 Event: GBE editors meeting | | | | | |
| 14:50 - 17:10 140 min. | Evolutionary medical genomics | Transposable elements in the population genomics era: towards a better understanding of their contribution to evolution | Pushing the frontiers of conservation genomics | Molecular evolution through metagenomics | Paleogenomics and human evolutionary history: new insights and novel methods | |
| 17:10 - 17:40 | COFFEE BREAK | | | | | |
| 17:40-19:30 110 min. | One Health and microbial evolution: New ideas and perspectives | Going local: Using engaged research practices to understand regional-scale interactions | Impact of environmental changes on agrobiodiversity and strategies for resilience | Animal paleogenomics beyond higher latitudes | Genetics, Molecular Biology, and the Future of Forensic Science | |
| 20:00-22:00 | Event: GBE Editors dinner | | | | | |
| Day 4 | | Wednesday 10 July | | | | |
| 9:00-10:00 | Plenary | | | | | |
| 10:00-10:30 | COFFEE BREAK | | | | | |
| 10:30 - 12:20 110 min. | Novel approaches to study plant domestication: disentangling the complex evolutionary history of crops | Genomes and Generations: Mapping Health and Heritage Through African Genomics | Advances in Machine Learning for Evolutionary Genomics | Unveiling the evolutionary history of pathogens through paleogenomics | Open Symposium 1 | |
| 12:20-13:20 | Lunch break Event: MBE & GBE 'Q&A session' | | | | | |
| 13:20 - 14:50 | Poster session 3 | | | | | |
| 14:50 - 17:10 140 min. | Evolution of microbial communities: is the sum of parts greater than the whole? | Human population demography and adaptation signals in the Americas | Spatial population genetics: where are we now? | Mitochondria: from powerhouse to processor and from marker to meaning | Deciphering the functional and adaptive effects of genomic structural variation | |
| 19:00 | GALA DINNER | | | | | |
| Day 5 | | Thursday 11 July | | | | |
| 09:00-10:50 110 min. | New computational approaches to estimate past demographic events and natural selection | Open Symposium 2 | Epigenetic inheritance: from molecular mechanisms to evolutionary consequences | Decoding the past to safeguard the future | Human genetic variability in the Pangenomic era. | |
| 10:50 - 11:20 | COFFEE BREAK | | | | | |
| 11:20-12:20 | Closing plenary | | | | | |
| 12:20-14:20 | Awards Ceremony and Introduction to SMBE 2025 | | | | | |

SOCIETY/JOURNAL/PROJECT MEETINGS:

- July 7, 08:00-19:00. SMBE Council Meeting.