

SOCIETY FOR EXPERIMENTAL BIOLOGY PRESENTS:

SEB FLORENCE 2018

3-6 JULY 2018

FIRENZA FIERA CONGRESS
AND EXHIBITION CENTRE

SEBIOLOGY.ORG

#SEBAMM



SESSION TOPICS WILL INCLUDE:

SCIENCE ACROSS BOUNDARIES – ANIMAL, PLANT AND CELL BIOLOGY

METABOLIC DIVERSITY

(ANIMAL, PLANT AND CELL BIOLOGY)

STRESS: FROM CELLULAR MECHANISMS TO ORGANISMAL RESPONSES AND CONSERVATION

(ANIMAL AND CELL BIOLOGY)

- PUMPING IONS AS A RESPONSE TO STRESS FROM AQUATIC HABITAT TRANSITIONS: CELLULAR AND MOLECULAR MECHANISMS RELATED TO EVOLUTIONARY CHANGES
- THE ROLE OF THE MITOCHONDRIA IN ENVIRONMENTAL ADAPTATION AND DISEASE
- ADVANCES IN NON-INVASIVE MONITORING OF STRESS IN THE FIELD AND LABORATORY: APPLICATIONS FOR CONSERVATION

GENERAL CELL AND PLANT BIOLOGY

(CELL AND PLANT BIOLOGY)

ANIMAL BIOLOGY

BIOMECHANICS

- BIOMECHANICS AND CLIMATE CHANGE
- OPEN BIOMECHANICS

PROXIMATE AND ULTIMATE DRIVERS OF BEHAVIOUR

- GENERALITY OF THE 'PACE-OF-LIFE SYNDROME'
- INTRASPECIFIC VARIATION IN RESPONSES TO STRESS: WHY INDIVIDUALS MATTER?
- THE ROLE OF INDIVIDUAL VARIATION IN THE BEHAVIOUR OF ANIMAL GROUPS

THERMOBIOLOGY

- CARDIO-RESPIRATORY ADAPTATIONS TO ENVIRONMENTAL CHANGE
- MITOCHONDRIA IN CHANGING CLIMATES: BIOSENSORS AND MEDIATORS OF ANIMAL RESILIENCE
- OCEAN WARMING AND ACIDIFICATION: WHAT UNDERLYING MECHANISMS CAN REVEAL ABOUT IMPACTS OF MULTIPLE STRESSORS

OTHER ANIMAL BIOLOGY SESSIONS

- OPEN ANIMAL BIOLOGY

PLANT BIOLOGY

- CLIMATE CHANGE IMPACT ON URBAN AND NATURAL FORESTS
- ENHANCING PLANT PHOTOSYNTHESIS WITH BIOPHYSICAL CO₂ CONCENTRATING MECHANISMS
- EPIGENETIC MEMORY AND ENVIRONMENTAL ADAPTATION
- FROM GENOME TO GENOMES
- MORPHOGENESIS IN NON-FLOWERING PLANTS
- PLANT BIOTECHNOLOGY FOR HEALTH AND NUTRITION
- PLANT TEMPERATURE PERCEPTION AND RESPONSES
- SHAPING ROOT ARCHITECTURE - FROM NUTRIENT SENSING AND TROPISMS TO SYSTEMIC SIGNALS AND DECISION MAKING

CELL BIOLOGY

- FUNCTIONAL ORGANISATION OF THE NUCLEAR PERIPHERY
- GREEN MICROBES
- SEQUENCING FROM LAB TO FIELD AND THE POST GENOMIC ERA
- SYSTEMS ANALYSES OF MULTICELLULARITY COMPLEXITY
- QUANTITATIVE SYNTHETIC BIOLOGY

SEB+

- BIOLOGY EDUCATION AND CLASS SIZE: CHALLENGES, OPPORTUNITIES AND STRATEGIES FOR SCALING TEACHING
- CAREER DEVELOPMENT WORKSHOPS FOR YOUNG RESEARCHERS
- DIVERSITY DINNER
- EMBRACING YOUR ETHICAL REVIEW BODY - A WIN-WIN SITUATION
- MEET THE ACADEMICS