

## SEB FLORENCE 2018

3-6 JULY 2018

FIRENZE FIERA CONGRESS  
AND EXHIBITION CENTRE

SEBIOLOGY.ORG

#SEBAMM



SESSION TOPICS WILL INCLUDE:

### SCIENCE ACROSS BOUNDARIES – ANIMAL, PLANT AND CELL BIOLOGY

#### ENVIRONMENTAL IMPACT ON EPIGENETIC MEMORY

(PLANT AND ANIMAL 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' CONCEPT: IS THE IDEA OF INTEGRATED SYNDROMES SUPPORTED BY EXPERIMENTAL DATA?
- 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 CO<sub>2</sub> CONCENTRATING MECHANISMS
- FROM GENOME TO GENOMES
- MORPHOGENESIS IN NON-FLOWERING PLANTS
- PLANT BIOTECHNOLOGY FOR HEALTH AND NUTRITION
- PLANT TEMPERATURE RESPONSES: SHAPING DEVELOPMENT AND ENHANCING SURVIVAL?
- 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 AND ORGAN BIOLOGY
- QUANTITATIVE SYNTHETIC BIOLOGY

### SEB+

- TEACHING BIOLOGY AT DIFFERENT SCALES: CHALLENGES, OPPORTUNITIES AND STRATEGIES
- CAREER DEVELOPMENT WORKSHOPS FOR YOUNG RESEARCHERS
- DIVERSITY DINNER
- EMBRACING YOUR ANIMAL CARE, WELFARE AND USE COMMITTEE - A WIN-WIN SITUATION
- MEET THE ACADEMICS