

SOCIETY FOR EXPERIMENTAL BIOLOGY PRESENTS:

SEB SEVILLE 2019

2-5 JULY 2019

FIBES II CONFERENCE
AND EXHIBITION CENTRE

SEBIOLOGY.ORG

#SEBAMM



FLAMEN-GO TO SEVILLE



SESSION TOPICS WILL INCLUDE:

SCIENCE ACROSS BOUNDARIES – CELL, PLANT AND ANIMAL BIOLOGY

ANIMAL, PLANT AND CELL BIOLOGY

- FUNCTIONAL MICRO- AND NANO-STRUCTURES IN BIOLOGY

ANIMAL AND PLANT BIOLOGY

- THREATENED PLANTS AND ANIMALS – CAN UNDERSTANDING PHYSIOLOGY INFORM CONSERVATION STRATEGIES?

CELL AND ANIMAL BIOLOGY

- SENSING THE PHYSICAL ENVIRONMENT
- SAVING ENERGY IN A FLUCTUATING ENVIRONMENT: FROM THE WHOLE ORGANISM TO THE MOLECULE
- BRAIN BUILDING: PLASTICITY IN FORM AND FUNCTION OF THE CENTRAL NERVOUS SYSTEM
- FUELLING THE FIRE OF LIFE – EVOLUTIONARY PHYSIOLOGY OF OXYGEN SUPPLY IN VERTEBRATES

CELL AND PLANT BIOLOGY

- HOST-MICROBIOTA INTERACTIONS ACROSS ANIMAL AND PLANT KINGDOMS
- TIP GROWTH IN PLANT BIOLOGY
- PLANT EPIGENETICS
- GENERAL CELL AND PLANT BIOLOGY (POSTER SESSION ONLY)

ANIMAL BIOLOGY

DEVELOPMENTAL PROGRAMMING AND LIFETIME FITNESS

- TRANSGENERATIONAL RESPONSE TO ENVIRONMENTAL STRESS
- DEVELOPMENTAL PROGRAMMING OF ADULT VERTEBRATE PHYSIOLOGY

ENERGETICS: FROM MOLECULES TO ORGANISMS

- HEAT EXCHANGE WITH THE ENVIRONMENT: MECHANISMS AND INSIGHTS INTO ANIMAL ENERGETICS
- HOW DO ANIMALS MANAGE THEIR ENERGY EXPENDITURE?

NEUROMECHANICS AND NEUROPHYSICS

- SENSORY AND MECHANICAL FACTORS UNDERLYING STABLE AND AGILE CONTROL OF LEGGED LOCOMOTION
- HOW BRAINS AND BODIES INTERACT TO GENERATE BEHAVIOUR: NEURONAL PLASTICITY AND BIOMECHANICS

RHYTHMS OF LIFE

- FISH CHRONOBIOLOGY
- REGULATION OF ENERGY METABOLISM IN FISH
- CLOCKS FOR THE CITY: HOW URBAN ENVIRONMENTS SHAPE THE RHYTHMS OF ANIMALS

- FROM GENES TO BEHAVIOUR: ACCLIMATION MECHANISMS WITH POTENTIAL USE AS BIOMARKERS IN DISTURBED COASTAL HABITATS (CELL AND ANIMAL BIOLOGY)

OTHER ANIMAL SESSIONS

- OPEN BIOMECHANICS
- OPEN ANIMAL BIOLOGY

CELL BIOLOGY

- COMPUTATION IN BIOLOGICAL SYSTEMS

PLANT BIOLOGY

- REDOX REGULATION IN CHLOROPLASTS
- AN EXTENDED PLANT PHENOTYPE: CHARACTERISING PLANT-SOIL MICROBIOME INTERACTIONS
- IMPACT AND FUNCTIONS OF ALTERNATIVE SPLICING IN PLANTS
- STOMATAL AND PHOTOSYNTHETIC REGULATION OF WATER USE EFFICIENCY
- MECHANISMS AND MITIGATION OF PLANT WATER DEFICIT: FROM THE BOTTOM UP
- ABIOTIC STRESS TOLERANCE – FROM THE LAB TO IMPACT IN THE FIELD

- GENE NETWORKS FOR CROP IMPROVEMENT
- IN SILICO PLANTS
- TIME, TEMPERATURE, AND A TRANSFORMING WORLD

SEB+

- BIOIMAGING AS A MEANS FOR DISCOVERY AND LEARNING
- TEACHING AND LEARNING SESSION
- SCIENCE WITH IMPACT
- CAREER WORKSHOPS
- MEET THE ACADEMICS

SATELLITE MEETINGS

PLANT AND CELL BIOLOGY

ALGAL MODEL SYSTEMS ON THE RISE: UNDERSTANDING AND EXPLOITING THE ALGAE TO LAND PLANT TRANSITION (30 JUNE 2019)

ANIMAL BIOLOGY

FROM MECHANISMS TO MODELS: IS GLOBAL WARMING CAUSING ANIMALS TO SHRINK? (30 JUNE 2019)