

SOCIETY FOR EXPERIMENTAL BIOLOGY PRESENTS:

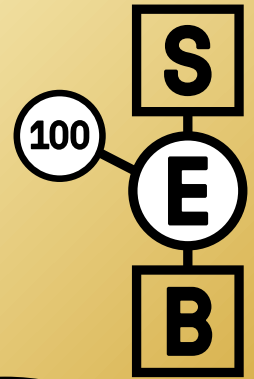
# SEB CENTENARY CONFERENCE

EDINBURGH

4-7 JULY 2023

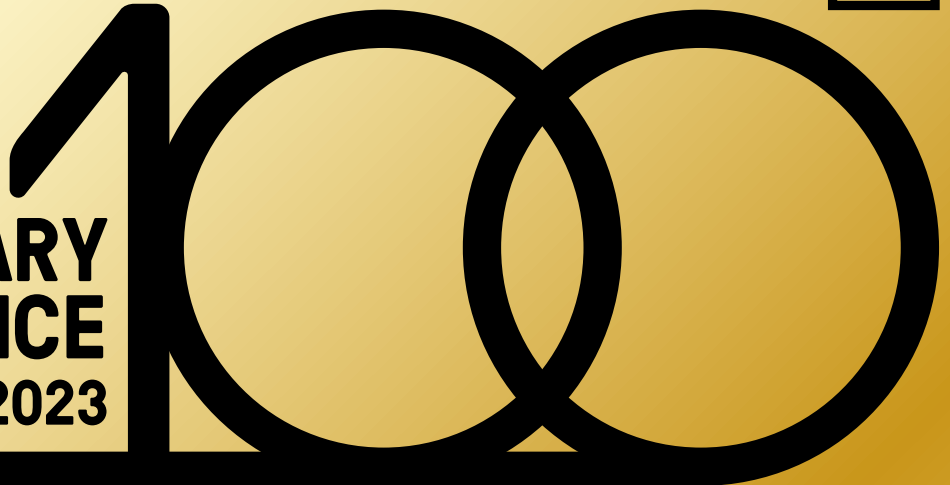
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# SEB CENTENARY CONFERENCE

1923-2023



# CELEBRATING SUCCESS & SHAPING THE FUTURE



**ANIMAL BIOLOGY**

**PLANT BIOLOGY**

**CELL BIOLOGY**

## SESSION TOPICS WILL INCLUDE:

### ANIMAL BIOLOGY SESSIONS

- A1 - Senescence in a changing world: ageing-related mechanisms in ectotherms
- A2 - Evolutionary ecology in extreme environments
- A3 - Masters of none: the impacts of multiple stressors on performance in aquatic organisms
- A4 - Mechanics of mechanoreception across scales and kingdoms
- A5 - Insect osmoregulation
- A6 - Bright nights with dark consequences: the evolutionary ecology of coping with light pollution
- A7 - Rapid evolution of invasive populations due to anthropogenic changes
- A8 - Keeping the pace: integrating mitochondrial and cellular bioenergetics to whole-animal fitness in a changing environment
- A9 - Species interactions and their role in experimental physiology: bringing back the BIO
- A10 - From bacteria to whales: using size spectra to measure global Change

- A11 - Plasticity and resilience of developmental stages to climate change
- A12 - Open biomechanics
- A13 - Open animal
- A14 - Experimental Palaeobiology - Bringing Fossils "Back to Life"

### PLANT BIOLOGY SESSIONS

- P1 - Improving Crop Nutrient Status: Discovery, Innovation & Translation
- P2 - Sugar metabolism, transport and signalling in plants
- P3 - Life at the interface - plant membrane-protein dynamics and interactions during responses to environmental change
- P4 - Stomata - a model system for fundamental scientific discovery and a target for crop improvement to meet development goals
- P5 - Exocytosis in plant cells
- P6 - Plant biology for sustainability
- P7 - Engineering Earth's Carbon Cycle using Plants and their Environments
- P8 - PEPG: Plant physiological responses across scales

- P9 - Cereal biology in 4D: gene expression across space and time
- P10 - Unlocking medicinal plants' full potential through rigorous application of plant science principles

### CELL BIOLOGY SESSIONS

- C1 - Local and Higher Order Nuclear Structural Organization and Dynamics
- C2 - Big Data Biology
- C3 - Cell cycle control in non-mammalian systems

### OUTREACH, EDUCATION AND DIVERSITY SESSIONS

- OED1 - Communicating and teaching ethical issues in Bioscience: Why, How, What
- OED2 - Outreach and PE
- OED3 - Teaching innovation and student engagement
- OED4 - Getting started on educational research, getting published and output
- OED5 - Transversal Skills in Experimental Biology: employability in industry and project management

- OED6 - Narrative CV's
- OED7 - Building for the future: fostering a diverse and inclusive biosciences community

### SCIENCE ACROSS BOUNDRIES

- AP1 - Looking backwards and forwards after a decade of Conservation Physiology
- ACPO1 - 100 years of SEB
- AC1 - Thermoregulatory and metabolic adaptations in a changing world
- CP1 - General cell and plant biology

### WORKSHOPS

- Peer Review Workshop
- Image Integrity Workshop - Good scientific practice of preparing and assessing image-based data
- How to work with your Data, an interactive workshop
- Science and Social Media. Are they really compatible? Developing Effective Science Communication Strategies.