

Mechanisms and Evolution of Intergenerational Change 24-26 September 2019

Wellcome Genome Campus,
Hinxton, Cambridge, UK

Draft Conference Programme

Tuesday, 24 September 2019

- 12:00 - 13:00 **Registration with lunch**
- 13:00 - 13:10 **Welcome and introduction**
Programme Committee: Nick Burton, University of Cambridge, UK
- 13:10 - 14:10 **Keynote lecture I**
Chair: Ben Dantzer, University of Michigan, USA
- Effect of parental state on offspring longevity; time scales, trade-offs and telomeres
Pat Monaghan
University of Glasgow, UK
- 14:10 - 15:40 **Session I: Evolutionary modelling of intergenerational effects**
Chair: Ben Dantzer, University of Michigan, USA
- 14:10 Parental effects in evolutionary biology
Tobias Uller
Lund University, Sweden
- 14:40 How genomic conflict shapes the evolution of intergenerational effects
Bram Kuijper
University of Exeter, UK
- 15:10 Short talk selected from abstracts
- 15:25 Short talk selected from abstracts
- 15:40 - 16:10 **Afternoon tea**

16:10 - 17:40

Session 2: Evolutionary models of intergenerational change in invertebrates

Chair: Jennifer Brisson, University of Rochester, USA

16:10 Transgenerational inheritance of mutualist nematodes in beetles
Cris Ledón-Rettig
Indiana University, USA

16:40 Intergenerational adaptation to nutrient stress in the nematode *C. elegans*
Ryan Baugh
Duke University, USA

17:10 Short talk selected from abstracts

17:25 Short talk selected from abstracts

17:40 - 18:10

Lightning talks

Chair: Paula Brunton, University of Edinburgh, UK

18:10 - 19:40

Poster session I (odd numbers) with drinks reception

19:40

Buffet dinner

Wednesday, 25 September 2019

09:00 - 10:30

Session 3: Evolutionary models of intergenerational change in plants

Chair: Cris Ledón-Rettig, Indiana University, USA

09:00 Primed plants do not forget: mechanisms and ecological drivers of transgenerational acquired resistance in *Arabidopsis thaliana*
Jurriaan Ton
University of Sheffield, UK

09:30 Transgenerational environmental effects in variable environments: plant responses to environments within and across generations
Kathleen Donohue
Duke University, USA

10:00 Short talk selected from abstracts

10:15 Short talk selected from abstracts

10:30 - 11:00

Morning coffee

11:00 - 12:30

Session 4: Evolutionary paradigms of intergenerational change in vertebrates

Chair: Ben Dantzer, University of Michigan, USA

11:00 Stress and survival in vertebrates: transgenerational effects of stress, environmental context, and why it matters
Kirsty MacLeod
Lund University, Sweden

- 11:30 Prenatal programming of physiology and behaviour in birds: immediate and transgenerational effects
Karen Spencer
University of St. Andrews, UK
- 12:00 Short talk selected from abstracts
- 12:15 Short talk selected from abstracts
- 12:30 - 14:00 **Lunch**
- 14.00 - 15:30 **Session 5: Foetal programming models in mammals I**
Chair: Paula Brunton, University of Edinburgh, UK
- 14:00 Parental delivery: somatic signals impacting neurodevelopment
Tracy Bale
University of Maryland, USA
- 14:30 Epigenetic mechanisms of metabolic disease: intergenerational and Stochastic effects
Andrew Pospisilik
Max Planck, Germany
- 15:00 Short talk selected from abstracts
- 15:15 Short talk selected from abstracts
- 15:30 - 16:00 **Afternoon tea**
- 16:00 - 17:30 **Session 6: Foetal programming models in mammals II**
Chair: Nick Burton, University of Cambridge, UK
- 16:00 Programming by maternal over-nutrition: a plentiful problem
Susan Ozanne
University of Cambridge, UK
- 16:30 Epigenetic inheritance in mammals: models and mechanisms
Anne Ferguson-Smith
University of Cambridge, UK
- 17:00 Short talk selected from abstracts
- 17:15 Short talk selected from abstracts
- 17:30 - 18:00 **Lightning talks**
Chair: Jennifer Brisson, University of Rochester, USA
- 18:00 - 19:30 **Poster session 2 (even numbers) with drinks reception**
- 19:30 **Conference dinner**

Thursday, 26 September 2019

09:00 - 10:30

Session 7: Foetal programming in humans and animal models

Chair: Susan Ozanne, University of Cambridge, UK

09:00 Transgenerational transmission of susceptibility – evidence from the Dutch famine

Tessa Roseboom

Amsterdam UMC, The Netherlands

09:30 Heart disease link to prenatal hypoxia: an intergenerational perspective

Dino Giussani

University of Cambridge, UK

10:00 Short talk selected from abstracts

10:15 Short talk selected from abstracts

10:30 - 11:00

Morning coffee

11:00 - 12:00

Keynote lecture II

Chair: Jennifer Brisson, University of Rochester, USA

Fetal accommodation to maternal stressors

Kent Thornburg

Oregon Health and Science University, USA

12:00 - 12:10

Closing remarks

Programme Committee: Ben Dantzer, University of Michigan, USA

12.10 - 13:30

Lunch

13:30

Coaches depart to Cambridge city centre and train station, and Heathrow Airport via Stansted Airport