



The Leverhulme Trust

INTERNATIONAL CONFERENCE ON UNDERSTANDING DIVERSITY IN TELOMERE DYNAMICS

Edinburgh UK



The Leverhulme Trust

Monday 31st October

Arrival, hotel check-in and registration

Social event in conference area from 5.30pm followed by dinner at 7pm

Tuesday 1st November

Session 1: Capturing variation in telomere length

9:00	Jerry Shay	Plenary: Recent Advances in Human Telomere Biology as Related to Aging
9:45	Tsung-Po Lai	TeSLA (Telomere Shortest Length Assay): A Method for Measuring the Distribution of the Shortest Telomeres
10:05	Dan Nussey	Strengths and weaknesses of qPCR methods as a tool to study diversity in telomere dynamics

10:30 Coffee

Session 2: Telomere length, cell fates and human health

11:00	Abraham Aviv & Kent Horvath	Plenary: Transgenerational Telomere Length Dynamics in Humans: The Role of Paternal Age
11:45	Duncan Baird	Telomere length is a critical determinant for survival in several human malignancies
12:05	Lea Harrington	The impact of short telomeres on cell fate
12:25	Peter Rej	Investigating the impact of culturally relevant measures of stress on telomere length

12:45 Lunch

Session 3: Comparative perspectives on telomere dynamics

14:00	Vera Gorbunova	Plenary: Evolution of genome maintenance mechanisms
14:45	Dan Eisenberg	Genome partitioning and telomere length in mammals
15:05	Daniel Promislow	Matters of size: Why large species have short telomeres
15:25	Nicole Foley	Can telomeres explain bats' unique longevity?
15:45	Steve Smith	When can we accept that telomeres also elongate?
16:05	Gemilly Rosado	Stress and lifestage-related telomere length variation in the endangered coral species <i>Orbicella faveolata</i>

16:30 Coffee

Session 4: Early life effects on telomere dynamics

17:00	Pat Monaghan	Plenary: Telomere dynamics at different life stages
17:30	Sue Ozanne	Nutritional Programming of Health-span and Lifespan: Do Telomeres Play a Role?
17:50	Pathik Wadhwa	Fetal programming of the telomere biology system.
18:10	Melissa Bateson	Developmental telomere attrition predicts adult foraging behaviour in European starlings

18:30 Drinks

18:45 Highlights Session (5 minute talks + 1 question each)

Jim Anderson	Age-dependent shaping of cancer incidence through telomere attrition
Sophie Reichert	Storage method affects telomere length in adult zebra finches
Anne Peters	Measuring telomeres by qPCR: repeatability across storage methods, extractions and a comparison to electrophoresis
Marion Chatelain	Trace metal effects on wild great tit oxidative stress and fitness in a gradient of urbanisation
Anna Giermek	Genetic effects of inbreeding on growth and telomeres in the offspring of double cousin zebra finches
Clare Andrews	Accelerated developmental telomere attrition predicts risk-averse foraging in adult starlings

19:30 Dinner

Wednesday 2nd November

Session 5: Telomere dynamics, genes, environments and life histories

9:00	Andrew Young	Telomeres and the evolution of life-histories
9:30	Bart Adriaenssens	Telomere biology of three-spined sticklebacks: the importance of age, growth trajectory and inheritance.
9:50	Oscar Vedder	Telomere dynamics and growth; a life-history framework and case study on common terns
10:10	Antoine Stier	Early-life environmental conditions influence telomere dynamics during growth in birds
10:30	Coffee	
11:00	Britt Heidinger	Environmental change, survival and telomere dynamics across the lifespan in a long-lived seabird the European shag (<i>Phalacrocorax aristotelis</i>)
11:20	Emma Wood	Social effects on telomere dynamics in a wild cooperative bird
11:40	Javier Pineda Pampliega	Antioxidant supplementation and telomere attrition in white stork nestlings
12:00	Nicky Rollings	Snakes, plugs and mating balls: Differences in telomere dynamics in red-sided garter snakes
12:20	Thor Harald Ringsby	On being the right size: increased body size is associated with reduced telomere length in house sparrows
12:40	Lunch	
14:00	Sandra Bouwhuis	Does crime pay? Kleptoparasitic common terns raise offspring with longer telomeres at the expense of their own
14:20	Hannah Froy	Sex differences and parental age effects in wild Soay sheep
14:40	Michelle Hares	Banded Mongoose: early life effects on a cooperative species and the effects on telomeres
15:00	Luise Seeker	Telomere length in dairy cattle
15:20	Jelle Boonekamp	Oxidative stress and telomere dynamics in wild jackdaw nestlings
15:40	Tea/Break	
16:10	David Richardson	Telomere length and individual and transgenerational inbreeding effects in the Seychelles warbler
16:30	Hannah Dugdale	Heritability of telomere length in Seychelles warblers
16:50	Christina Bauch	Causes of telomere length variation in wild jackdaw nestlings: Genetics, environment and physiology
17:10	Mats Olsson	Multilocus homozygosity and parental consanguinity correlates negatively with telomere length in hatchling sand lizards (<i>Lacerta agilis</i>)
17:30	Drinks	
17:45	Highlights Session (5 minute talks + 1 question each)	
	Dom Cram	Social and environmental influences on early life telomeres in wild meerkats
	Jen Fairlie	Effects of DNA integrity on telomere length measurement
	Sarah Westrick	Effects of developmental stress and offspring postnatal growth on telomere length in wild North American red squirrels
	Darryl McLennan	Interactions between environmental harshness and growth rate in determining telomere length in wild juvenile salmon
	Louise Cheynel	Patterns of immunosenescence differ between two contrasted populations of a long-lived mammal
	Janek Urvic	Telomeres and aging in a long-lived seabird
18:30	Concluding discussion	
19:30	Dinner	