

Workshop on Evolutionary Demography

6-8 June 2012

Max Planck Institute for Demographic Research, Rostock, Germany
Rooms: Johann Peter Süssmilch Auditorium (057) and Cafeteria (053)

Schedule

Wednesday, June 6

09:00 Announcements & Welcome by James Vaupel

Session Chair: James Vaupel

- 09:10 **Susan Alberts**
Reproductive cessation patterns in primates reveal that humans are distinct
- 09:50 **Rudi Westendorp**
Survival under adverse conditions in contemporary Africa
- 10:30 **Ruth Mace**
Reproductive competition between females in Gambian families
- 10:50 Break

Session Chair: Roberto Salguero-Gomez

- 11:10 **Yngvild Vindenes**
Effects of temperature on evolutionary demography of pike (*Esox lucius*)
- 11:30 **Yvonne Buckley**
Increased population growth rate in invasive polyploid *Centaurea stoebe* provides evidence for rapid evolution
- 11:50 **Eelke Jongejans**
Phenotypic plasticity and rapid evolution in plant population models
- 12:10 **Dylan Childs**
The evolutionary demography of lay date in the Wytham Great tit
- 12:30 **Fanie Pelletier**
Population growth and fluctuating opportunities for selection on phenotypic characters
- 12:50 Lunch

Session Chair: Daniel Levitis

- 14:30 **Hal Caswell**
A model for the grandmother effect
- 15:10 **Elisabeth Archie**
Social connectedness and longevity in wild baboons
- 15:30 **Jacob Moorad**
Contextual analysis as a method for measuring socially derived sources of natural selection for longevity
- 15:50 Break

Session Chair: Alexander Scheuerlein

- 16:10 **Deborah Roach**
Joint modeling of reproduction and size in *Plantago*: do we need to consider history?
- 16:50 **Ulrich Steiner**
Life histories and variance of individual fitness components in *Plantago lanceolatum*: genetics, environments and stochasticity
- 17:10 **Roberto Salguero-Gomez**
Old and new axes of plant demography
- 17:30 **Mark Rees**
Growth: an evolutionary perspective
- 17:50 Walk to the restaurant
- 18:10 Dinner
Lenk's Restaurant, Warnowufer 59, 18057 Rostock, Tel. 0381 - 25 26 65 66
- 19:20 Discussion

Thursday, June 7

- 09:00 Announcements & Welcome by Annette Baudisch

Session Chair: Annette Baudisch

- 09:10 **Shripad Tuljapurkar**
Phenotypic Variability and life History Evolution
- 09:50 **Ulf Dieckmann**
Modern life-history theory and the crucial role of density regulation
- 10:30 **Tom Kirkwood**
Connecting ultimate and proximate causes of ageing
- 11:10 Break

Session Chair: Fernando Colchero

- 11:30 **Annette Baudisch**
The pace and shape of aging
- 11:50 **Thomas Wrycza**
Measuring the Pace and Shape of Aging
- 12:10 **Maarten Wensink**
Senesce to live long
- 12:30 **Jan Kozlowski**
Mutation accumulation may be a minor force in shaping life history traits
- 12:50 Lunch

Session Chair: Roberto Salguero-Gomez

- 14:10 **Alexander Scheuerlein**
The Varieties of Aging: Mortality and Fertility schedules across the Tree of Life
- 14:30 **Alan Cohen**
Why physiology matters in evolutionary demography

- 14:50 **Jenny Tung**
Gene regulation and aging across the life course: exploring the mechanistic underpinnings of social and life history effects on health and physiology
- 15:10 **Owen Jones**
Phylogeny in life history
- 15:30 **Jean-Michel Gaillard**
What factors shape actuarial senescence in captive populations of large mammalian herbivores?
- 15:50 Break

Session Chair: Owen Jones

- 16:10 **James Carey**
Evolutionary demography of the Mediterranean fruit fly from six world regions
- 16:50 **Fernando Colchero**
Bayes in life history analysis
- 17:10 **Maren Rebke**
A hierarchical Bayesian model of the steps leading to reproduction
- 17:30 **Dalia Conde-Ovando**
Conservation Demography
- 17:50 Poster Session
- 18:30 Walk to the shipping pier
- 19:00 Dinner on the river Warnow (****drinks to be paid privately****)

Friday, June 7

- 09:00 Announcements

Session Chair: Owen Jones

- 09:10 **Daniel Levitis**
Ontogenescence: What is it, who does it, why doesn't selection eliminate it, and how to investigate it?
- 09:30 **Jessica Metcalf**
Ignoring the microbe in the room: infectious diseases and the evolution of demographic age trajectories
- 09:50 **Samuel Pavard**
Are old ages useless with respect to selection? A reconsideration of the common variants/common diseases hypothesis
- 10:10 **Steven Stearns**
Oncogenes and the costs of reproduction in the Framingham Heart Study population
- 10:30 **Virpi Lummaa**
Sexual conflict over post-reproductive lifespan in humans
- 10:50 Break

Session Chair: Daniel Levitis

- 11:10 **James Vaupel**
The Rates of Aging
- 11:50 **Trifon Missov**
Implications of Mortality Plateaus in Fixed-Frailty Proportional Hazards Framework

12:10 **Lin Yuhui**
The Rate of Aging in Smokers

12:30 **Oskar Burger**
Seventy-six is the new thirty: A comparative baseline for evolutionary
biodemography

12:50 Lunch

Session Chair: Oskar Burger

14:10 **Ken Haste Andersen**
Why do individuals have a digestive overcapacity?

14:50 **Who Seung Lee**
The impacts of early growth trajectory on reproduction and lifespan

15:10 **Timothy Gage**
Heterogeneity Identified at Birth, and Cardiovascular Risk at 45

15:30 **Raziel Davison**
Contributions of covariance: decomposing the components of stochastic
population growth

16:10 Break

Session Chair: Alexander Scheuerlein

16:30 **Anne Pringle**
Life and Death in a Petersham Cemetery: The Demography of Potentially
Immortal Organisms

17:10 **Ralf Schaible**
Hydra - life in the absence of senescence

17:30 **Maciej Danko**
What makes Hydra immortal? A theoretical approach

17:50 Final remarks by James Vaupel and others

20:00 Open (board meeting)