

The Evolution of Proximate Mechanisms for Behavioural and Life History Decisions

11-14 August 2013, Arolla, Switzerland

*This workshop is sponsored by the CUSO Inter-University Doctoral Program in Ecology and Evolution
and the SNF ProDoc Program "Proximate and ultimate Causes of Cooperation"*

Organizers: Sander van Doorn and Barbara Taborsky

Program

Sunday 11 August

Arrival at Hotel Kurhaus in Arolla

19:00 Dinner

Monday 12 August

- 9:30 – 10:00 Opening and introduction to the workshop
- 10:00 – 11:00 **Thomas Flatt:** *Life-history evolution and the genotype-phenotype map*
- 11:00 – 11:30 Break
- 11:30 – 12:30 **Ton Groothuis:** *Interactions between proximate and ultimate factors in shaping behaviour: The case of maternal effects*
- 12:30 – 14:00 Lunch break
- 14:00 – 15:00 **John McNamara:** *Rules and evolutionary rationality*
- 15:00 – 16:30 Parallel discussion sessions
- 1) Developmental complexity versus additive gene-action?
(Thomas Flatt, Sander van Doorn)
 - 2) Why have mechanisms evolved the way they are?
(Rui Oliveira, Charlotte Hemelrijk)
- 16:30 – 17:30 Break and preparation for presentations of workshop group results
- 17:30 – 18:30 Presentations of results from workshop groups and general discussion
- 19:00 Dinner

Tuesday 13 August

9:00 – 10:00	Charlotte Hemelrijk: <i>Self-organised social systems and their evolution</i>
10:00 – 11:00	Jim Goodson: <i>Neuroendocrine mechanisms of gregariousness and territoriality in birds</i>
11:00 – 12:30	Tea/coffee/cookies + parallel discussion sessions 3) <u>Brain mechanisms and the evolution of social behaviour</u> (Jim Goodson, Ton Groothuis) 4) <u>Mechanisms in models of trait evolution?</u> (John McNamara, Sander van Doorn)
12:30 – 13:30	Lunch break
13:30 – 14:00	Preparation for presentations of workshop group results
14:00 – 15:00	Presentations of results from workshop groups
15:00 – 16:00	Rui Oliveira: <i>Molecular mechanisms of behavioral plasticity: from genes to behavior and back</i>
16:00 – 16:30	Break
16:30 – 17:30	Sander van Doorn: <i>How epistasis affects the outcome of evolution: a case-study on age-dependent plasticity</i>
17:30 – 18:30	Final discussion
19:00	Dinner

Wednesday 14 August

9:00	Excursion to the mountains and departure
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