

**SPECIATION 2013 – Second European Conference on Speciation Research
Montpellier, 27-29 May 2013**

Venue: Faculté de Médecine de Montpellier - Historical Faculty of Medicine, Montpellier

Conference programme

Monday 27 May

08:00-9:00 Reception – *Reception Hall Atrium*

09:00-9:20 Opening session - *Amphithéâtre d'Anatomie*

Chairman: Ulf Dieckmann

09:20-9:50 Roger Butlin (invited) - **Adaptation and isolation in winkles and aphids**

9:55-10:25 Stuart Baird (invited) - **Genomics of Introgression across a Species Barrier: Half a Million SNPs across the European House Mouse Hybrid Zone**

10:30-11:00 *Coffee break - Salle Dugès*

11:00-11:30 Astrid Groot (invited) - **Variation in moth sexual communication**

11:35-11:50 Guila Ganem - **Disentangling the mechanisms of species mate recognition**

11:55-12:10 Mario Vallejo-Marin - **Discovery of a recently formed allopolyploid species of *Mimulus* (Phrymaceae) in Scotland provides insights into the early stages of speciation**

12:15-12:30 Skúli Skúlason - **Resource polymorphism and speciation: what can we learn from Northern freshwater fishes?**

12:30-14:00 *Lunch break and guided tours*

12:35 departure tour 1 - 13:10

13:15 departure tour 2 - 13:50

Chairman: Glenn-Peter Saetre

14:00-14:30 Ulf Dieckmann (invited) - **Robust Adaptive Speciation**

14:35-14:50 Helen Hipperson - **Genomics of speciation in *Howea* palms**

14:55-15:10 Gunnar Öhlund - **Predation drives rapid and repeated sympatric divergence in European whitefish**

15:10-15:40 *Coffee break - Salle Dugès*

15:40-16:40 Poster session 1 - *Salle Dugès*

16:40-17:10 Leonie Moyle (invited) - **The evolutionary timing and pattern of accumulation of reproductive isolation loci**

17:15-17:30 Luis-Miguel Chevin - **Niche dimensionality and the genetics of ecological speciation**

17:35-17:50 Wolfgang Miller - **Symbiont-triggered speciation: concepts, causes and consequences**

17:55-18:00 Closing session

18:00-20:00 *Welcome Reception – Montpellier historical Faculty of Medicine– Cour d'Honneur et Salle Dugès de la Faculté de Médecine de Montpellier*

Tuesday 28 May

Chairman: Roger Butlin

- 9:00-9:30 Jenny Boughman (invited) - **Speciation by divergent sexual selection**
- 9:35-10:05 Jochen Wolf (invited) - **Linking genes and 'magic traits': Narrow islands of genomic divergence across the hooded and carrion crow hybrid zone**
- 10:10-10:25 Agnes Rettelback - **Three modes of adaptive speciation in spatially structured populations**
- 10:30-11:00 *Coffee break - Salle Dugès*
- 11:00-11:30 Mark Kirkpatrick (invited) - **The evolution of pre- and postzygotic isolation**
- 11:35-11:50 Emma Berdan - **Investigating the role of a Robertsonian fusion in divergence and speciation**
- 11:55-12:10 Janice Britton-Davidian or Pierre Boursot - **Are Robertsonian fusions barriers to introgression in a house mouse hybrid zone?**
- 12:15-12:30 Mathieu Joron - **Inversions, supergenes and the build-up of linkage disequilibrium between multiple traits**
- 12:30-14:00 *Lunch break and guided tours*
- 12:35 departure tour 3 - 13:10
- 13:15 departure tour 4 - 13:50

Chairman: Jacek Szymura

- 14:00-14:30 Patrik Nosil (invited) - **Experimental evidence for rapid and genome wide evolution during ecological speciation**
- 14:35-14:50 Glenn-Peter Saetre - **Hybrid speciation driven by discordant cline movement of mito-nuclear and sex-linked incompatibilities**
- 14:55-15:10 Rike Stelkens - **Hybridization promotes colonization of new environments**
- 15:10-15:40 *Coffee break - Salle Dugès*
- 15:40-16:10 James Mallet (invited) - **Promiscuous genome exchange among hybridizing *Heliconius* butterflies**
- 16:15-16:30 Géza Meszéna - **Three-phase transition to reproductive isolation**
- 16:35-16:50 Paris Margot - **Speciation in wild tomatoes: inference from genome-wide sequence data**
- 16:55-17:00 Closing session
- 17:00-18:00 Poster session 2- *Salle Dugès*
- 18:00 free evening

Wednesday 29 May

Chairwoman: Janice Britton-Davidian

- 9:00-9:30 Martine Maan (invited) - **Divergent ecological selection on mating traits: alternative mechanisms and their consequences for speciation**
- 9:35-9:50 Nicolas Bierne - **The geography of introgression in a patchy environment and the misperception of fast speciation**
- 9:55-10:10 Richard Bailey - **The role of genetic constraints during speciation: Hybridization and the G matrix.**
- 10:15-10:30 Reto Burri - **The landscape of genome divergence in *Ficedula* flycatchers**
- 10:30-11:00 *Coffee break - Salle Dugès*
- 11:00-11:30 Axel Meyer (invited) - **Incipient speciation and parallel evolution in adaptive radiations of Nicaraguan crater lake cichlid fish**
- 11:35-11:50 Christophe Destombe - **Unraveling sibling species within *Pylaiella littoralis* (Ectocarpales, Phaeophyceae) using phylogenetic, ecological and biological evidences**
- 11:55-12:10 Philine Feulner - **Genome wide patterns of divergence: a comparison of five parapatric lake-river population pairs of three-spined sticklebacks**
- 12:15-12:30 Markus Pfenninger - **Convergent evolution of cox-genes in H₂S-tolerant fish: a key adaptation drives ecological speciation**
- 12:30-14:00 *Lunch break and guided tours*
- 12:35 departure tour 5 - 13:10
- 13:15 departure tour 6 - 13:50

Chairman: Patrik Nosil

- 14:00-14:30 Åke Brännström (invited) - **Eco-evolutionary modeling of diversification and speciation**
- 14:35-14:50 Anne-Sophie Bonnet-Lebrun - **The temporal dynamics of phylogenetic tree shape in neutral community models**
- 14:55-15:10 Daniel Viales - **Extraordinarily rapid speciation on oceanic islands: the case of *Cheirolophus* in Macaronesia**
- 15:10-15:40 *Coffee break - Salle Dugès*
- 15:40-16:40 Poster session 3- *Salle Dugès*
- 16:40-17:10 Robin Hopkins (invited) - **Selection and speciation: From genotype to phenotype to reproductive isolation**
- 17:15-17:30 Pim Edelaar - **Matching Habitat Choice as a driver of speciation**
- 17:35-17:55 Closing session
- 18:00 end
- 19:00-24:00 *Conference buffet dinner – Montpellier historical Faculty of Medicine– Cour d'Honneur de la Faculté de Médecine de Montpellier*

Poster sessions:

Poster session 1: Monday 27: 15:40-16:40

1. L. Duvaux - Linking chemosensory multigene-family evolution with speciation in the pea aphid (*Acyrtosiphon pisum*).
2. F. Gascuel - Linking macroevolution to ecology: how is the shape of phylogenetic trees affected by the ecological processes of diversification?
3. A. B.A. Shafer - Widespread evidence for incipient ecological speciation
4. P. Garnier-Géré - Are European oaks *Quercus petraea* and *Q. robur* a “worst-case scenario” for the study of speciation with gene flow?
5. M. Nowak - Evidence for strong isolating mechanisms despite pervasive hybridization in a European hybrid zone of *Primula veris* and *Primula vulgaris*
6. C. M. Nieberding - Selection on male sex pheromone composition drives butterfly diversification
7. E. Joly - The existence of species rests on a metastable equilibrium between inbreeding and outbreeding.
8. M. Simonsen - Trophic morphology differences in three sympatric Arctic charr morphs in Lake Skogsfjordvatn
9. B. Nürnberger - A transcriptomic perspective on past hybridisation in the fire-bellied toads (*Bombina*)
10. J. M. Szymura - Drang nach Westen: Is the fire-bellied toad a ring species?
11. V. Fiorentino - Constraints on ecological speciation in *Murella muralis*: environmental changes in the course of time
12. A. Montecinos - Genetics and genomics of speciation in the brown seaweed *Ectocarpus* complex

Poster session 2: Tuesday 28: 17:00-18:00

13. A. Iglesias-V - Genetic structure of *Pterodroma leucoptera* complex: A multilocus inference
14. E. Zarza - When iguanas meet: Hybridization, introgression and cytonuclear discordance in contact zones of the Mexican black iguana
15. G. Achaz - ABGD, Automatic Barcode Gap Discovery for primary species delimitation
16. E. Nonaka - Phenotypic plasticity can promote sympatric speciation
17. J.L. Bella - Has a third taxon of *Chorthippus parallelus* arisen in its Pyrenean hybrid zone?
18. J. Hollander - Genital divergence in sympatric sister snails
19. Y. Latour - Sexual selection against natural hybrids: a barrier to gene flow in a house mouse hybrid zone?
20. C. Dufour - How do co-occurring sister species deal with spatial, reproductive and dietary overlap?
21. M. Kopp - Simulating neutral genetic divergence during ecological speciation
22. M. Orsucci - Genetics and epigenetics contributions to the host plant adaptation of two Lepidoptera pests
23. P. Martínez-Rodríguez - Wolbachia infection in *Podisma pedestris*
24. J. Ripa - Adaptive radiations in alpha and beta niche dimensions - The potential role of extinctions for patterns of niche conservatism

Poster session 3: Wednesday 29: 15:40-16:40

25. F. Hendrickx - Repeated niche occupancy through species sorting and parallel radiation are not always so different: insights from a Galapagos beetle radiation.
26. Y. Latour - Does intrasex competition interfere with reproductive character displacement in the house mouse?
27. P. I. Hablützel - Adaptive divergence among incipient species: a parasite perspective
28. M. Harry - Species delimitation and phylogeny in the pest genus *Nasutitermes* (Termitidae: Nasutitermitinae) in French Guiana
29. E. Pante - Characterization of secondary contact zones and hybridization patterns in the tellinid bivalve *Macoma balthica*
30. G. Kunert - Feeding behavior of *Acyrtosiphon pisum* races on different legume species
31. J. Peccoud - Investigating ecological hybrid unfitness between host-specialized biotypes of the pea aphid
32. A. Brelsford - Does “Coyne’s Rule” apply to amphibians? Introgression of sex-linked and autosomal markers across a tree frog hybrid zone
33. S. Van Belleghem - Sympatric divergence mediated by standing genetic variation and a potential automatic magic trait in the salt marsh beetle *Pogonus chalceus*
34. R. Faria - The paths of parallel evolution in the flat periwinkles: preliminary results
35. D. R. Vieites - Speciation in a large tropical amphibian radiation