

Mutualism

May 7-9, 2009, Harvard University

May 7

All talks in Northwest Science Building B103 (52 Oxford Street)

- 8:45am** Welcome
- 9:00am** **John Thompson**, *UC Santa Cruz*
“Phylogenetic and geographic divergence of coevolving interactions into small, mutualistic networks”
- 9:45am** **Pat Willmer**, *University of St. Andrews*
“Managing animal-plant mutualisms: volatiles and other tricks to keep ants out of flowers”
- 10:30am** Coffee Break
- 11:00am** **Florian P. Schiestl**, *University of Zürich*
“Floral signals, pollinator behavior, and floral isolation in plants”
- 11:45am** **Robert A. Raguso**, *Cornell University*
“Reconciling chemical and community ecological approaches to the study of pollination”
- 12:30pm** Lunch
- 2:00pm** **Alan Gange**, *University of London*
“Interactions between insects and mycorrhizal fungi”
- 2:45pm** **Jennifer Rudgers**, *Rice University*
“Grass-endophyte symbiosis: community consequences and co-evolutionary dynamics”
- 3:30pm** Coffee Break
- 4:00pm** **E. Toby Kiers**, *Vrije University*
“Sanctions, cooperation, and the evolutionary stability of plant-rhizosphere mutualisms”
- 4:45pm** **Giles E. D. Oldroyd**, *John Innes Centre*
“Signaling mechanisms for plant endosymbioses”
- 6:30pm** Reception and Dinner, Harvard Museum of Natural History, Romer Hall

Free and Open to the Public

Details and registration at: www.pbi.fas.harvard.edu

Lunch provided for pre-registered participants

Co-organizers:

Harvard University: Naomi Pierce, Anne Pringle, Stuart Davies, and Megan Frederickson

IIASA, Austria: Ulf Dieckmann



5th Annual Harvard
Plant Biology
Symposium
Plants and the evolution of
cooperation & trading

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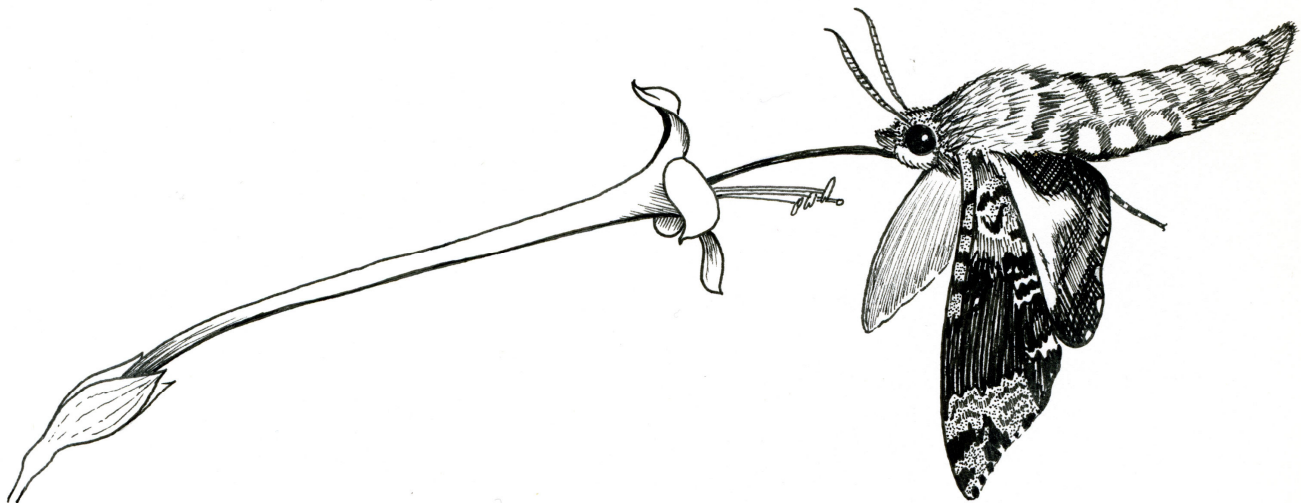
May 8

Morning talks in Mallinckrodt Laboratory Pfizer Hall (12 Oxford Street)

- 8:30am** **Judith L. Bronstein**, *University of Arizona*
“Context-dependent outcomes in mutualism: ecological and evolutionary implications”
- 9:15am** **Ronald Noë**, *CNRS & Université de Strasbourg*
“Can the biological market concept serve as a general paradigm for cooperation and mutualism?”
- 10:00am** Coffee Break
- 10:30am** **Ulf Dieckmann**, *International Institute for Applied Systems Analysis*
“Runaway selection for cooperation and strict-and-severe punishment”
- 11:15am** **Martin Nowak**, *Harvard University*
“Five mechanisms for the evolution of cooperation”
- 12:00pm** Lunch (in Northwest Building)

Afternoon talks in Sherman Fairchild Biochemical Lab 102 (7 Divinity Avenue)

- 2:00pm** **Carl Bergstrom**, *University of Washington*
“Dealing with deception”
- 2:45pm** **Theodore Bergstrom**, *UC Santa Barbara*
“Games, golden rules and evolution”
- 3:30pm** Coffee Break
- 4:00pm** **Claire de Mazancourt**, *McGill University*
“Evolution of a trading mutualism from a competitive interaction”
- 4:45pm** **Pedro Jordano**, *Estación Biológica de Doñana, CSIC*
“Complex networks of interactions and their consequences in diversified plant-animal mutualisms”



Coelonia fulvinotata pollinating *Combretum rotundifolium*
Drawing by Dino Martins

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May 9

All talks in Northwest Science Building B103 (52 Oxford Street)

- 9:00am Jérôme Orivel, Université Paul Sabatier**
“Ecology and maintenance of a novel tripartite mutualistic association”
- 9:15am Mario X. Ruiz-González, Université Paul Sabatier**
“Three eukaryotic kingdoms of life interacting in a novel and highly specialized mutualism”
- 9:30am Elizabeth G. Pringle, Stanford University**
“Indirect effects of hemipterans on ant-defended plants”
- 9:45am Dino Martins, Harvard University**
“Third-party species: effects and manipulation in mutualism”
- 10:00am Megan Frederickson, Harvard University**
“Positive feedback in ant-plant mutualisms”
- 10:15am** Coffee Break
- 11:00am Ádám Kun, International Institute for Applied Systems Analysis**
- 11:15am Gergely Boza, International Institute for Applied Systems Analysis**
“The evolution and stability of conditional mutualistic interactions: model and reality”
- 11:30am Andras Szilagyi, Loránd Eötvös University**
“Evolution of castration and the coexistence of ant-plant mutualists in a spatially explicit model”
- 12:00pm** Lunch
- 2:00pm Drew Fudenberg, Harvard University**
“The evolution of mutation rates”
- 2:15pm Glen Weyl, Harvard University**
“The labor economics of mutualism”
- 2:30pm David Rand, Harvard University**
“Winners don’t punish”
- 2:45pm Marco Archetti, Harvard University**
“Mutualism as a contract: asymmetric information from economics to evolutionary biology”
- 3:00pm Charles Nathanson, Harvard University**
“A formula for the evolution of cooperation in structured populations under weak selection”
- 3:15pm** Coffee Break
- 4:00pm Santiago Ramírez, UC Berkeley**
“Diversification and specialization in the euglossine-orchid mutualism”
- 4:15pm Joerg Barke, University of East Anglia**
“Antibiotic resistance problem in the leafcutter ant *Acromyrmex octospinosus*”
- 4:30pm Luis Carvalho, University of Lisbon**
“Biogeographical variation of mycorrhizal effectiveness in an invasive *Acacia* species”
- 4:45pm Naomi Pierce, Harvard University**
“Ants and the evolution of mutualism”