

EVOLUTION, ECOLOGY, & GENETICS RESEARCH SCHOOL OF BIOLOGY

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Ant queen pheromones and ultimate causation in honest signalling



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Signalling costs and evolutionary constraints have both been invoked as ultimate causes of honesty in biological signals. I will argue that both factors are important, and that variation in signal costs arises from variation in evolutionary constraints. I will then discuss the proximate and ultimate mechanisms behind honest signalling in the ant genus *Lasius*, using a newly-discovered queen pheromone that keeps worker ants sterile and signals queen. The talk covers modelling, analytical chemistry, behaviour, quantitative genetics and phylogenetic analysis.

For further info please contact:

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**Seminars are held in the Gould Wing Seminar Room, Building 116 Daley Rd, ANU
ALL STAFF AND STUDENTS ARE WELCOME TO ATTEND**