A Robotic Model Wasp to Investigate Parasitoid Insect Plume Tracking Behaviour

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The aim of this research project is to investigate insect plume tracking through the design, construction and testing of an appropriate robotic model of the parasitoid wasp *Cotesia rubecula* default. This model will consist of a mobile robot that can sense the speed and direction of the wind and the level of ionised oxygen molecules, a "model chemical", in the air. It will then be utilised in a number of experiments designed to test a hypothesis regarding the chemical plume tracking behaviour of the wasp being studied.