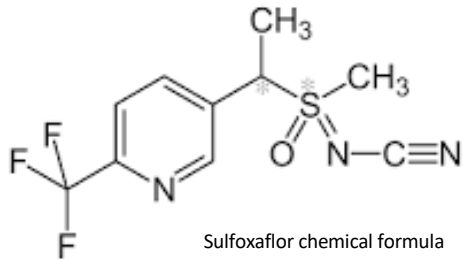


Novel insecticide reduces egg-laying and reproductive success in bumble bees

by Harry Siviter, Elli Leadbeater, Mark Brown

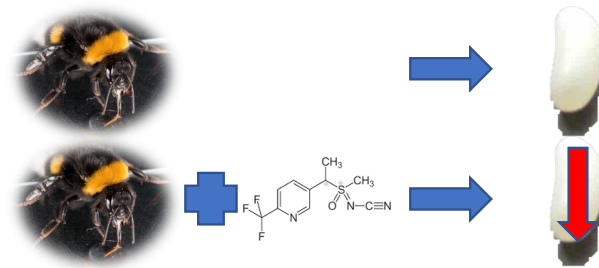


Sulfoxaflor, a novel insecticide, was introduced to replace neonicotinoid pesticides in agricultural systems

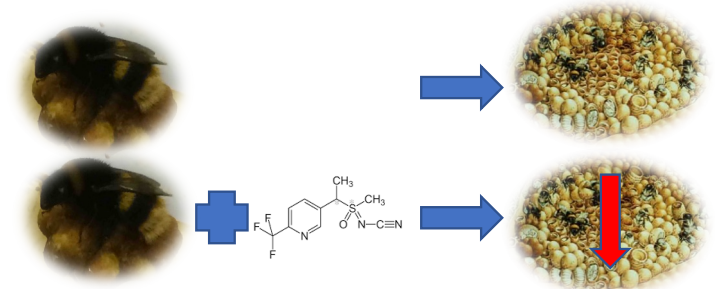


To test the potential impacts of sulfoxaflor on bumble bee health, we conducted two experiments: 1) small groups of bumblebees were exposed to varying levels of sulfoxaflor and reproduction was measured; 2) newly-founded colonies were exposed for two weeks to low levels of sulfoxaflor and then placed in the field, where we measured colony growth and reproduction

1) Does exposure impact egg-laying?



2) Does exposure impact colony health?



Our results show a risk to bumble bee health if they are exposed to low doses of sulfoxaflor, with egg-laying and colony reproduction both being reduced. Since these experiments, the EU has banned use of sulfoxaflor outside of greenhouses

Links to scientific papers on which this summary is based: [experiment 1](#) and [experiment 2](#)