The PoshBee Buzz

final volume

It has been five years since PoshBee members officially started the project's efforts to support healthy bee populations, sustainable beekeeping and pollination across Europe.

PoshBee Kick-off meeting in Paris, France, 2018

Although PoshBee is ending in May 2023, we are sure that the project's community of academics, beekeepers and farmers will continue to work together to protect bee health!

"*It's been quite the journey, and seeing the PoshBee community developing as collaborators and friends has been one of the great joys of the past 5 years! Thanks to everyone for everything you've given to PoshBee - you are what's made our project thrive. Wishing everyone all the best for the future - let's raise a glass to bee health!*"
– Prof Mark Brown, PoshBee Coordinator

And now let's take a closer look at what PoshBee achieved in its final year and the legacy it leaves behind!

On 22 and 23 March 2023, project partners and stakeholder advisory committee members gathered for a bitter-sweet final meeting in Rome. It is fair to say that after two online annual meetings, partners were more than happy to gather in person and create that PoshBee buzz in the room one final time.

Read more

New PoshBee research

You can access all the PoshBee papers here.

Click to read the full article

The Beneficial Effect of Pollen on Varroa Infested Bees Depends on Its Influence on Behavioral Maturation Genes

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Flowering resources modulate the sensitivity of bumblebees to a common fungicide

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No evidence for impaired solitary bee fitness following pre-flowering sulfoxaflor application alone or in combination with a common fungicide in a semi-field experiment

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Variations in Nutritional Requirements Across Bee Species

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Stem-nesting Hymenoptera in Irish farmland: empirical evaluation of artificial trap nests as tools for fundamental research and pollinator conservation

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Impact of crop exposure and agricultural intensification on the phenotypic variation of bees

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Design and Planning of a Transdisciplinary Investigation into Farmland Pollinators: Rationale, Co-Design, and Lessons Learned

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A deeper understanding of system interactions can explain contradictory field results on pesticide impact on honey bees

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Intra-specific variation in sensitivity of *Bombus terrestris* and *Osmia bicornis* to three pesticides

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Specific detection and quantification of three microsporidia infecting bees, *Nosema apis*, *Nosema ceranae*, and *Nosema bombi*, using probe-based real-time PCR

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Method of Glyphosate, AMPA, and Glufosinate Ammonium Determination in Beebread by Liquid Chromatography—Tandem Mass Spectrometry after Molecularly Imprinted Solid-Phase Extraction

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Responses in honeybee and bumblebee activity to changes in weather conditions

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Beyond generalists: The Brassicaceae pollen specialist *Osmia brevicornis* as a prospective model organism when exploring pesticide risk to bees

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Unraveling the *Bombus terrestris* Hemolymph, an Indicator of the Immune Response to Microbial Infections, through Complementary Mass Spectrometry Approaches

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Parasite and Pesticide Impacts on the Bumblebee (*Bombus terrestris*) Haemolymph Proteome

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Building composite indices in the age of big data – Application to honey bee exposure to infectious and parasitic agents

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Impact of landscape configuration and composition on pollinator communities across different European biogeographic regions

To provide a concise overview of PoshBee's main results, the project published a special Legacy brochure. It summarises the key findings of each work package, thus offering a glimpse into what PoshBee achieved in the past five years.

Download the Legacy brochure

PoshBee science for non-scientists

In the spirit of delivering practice-relevant research outputs, PoshBee issues a stakeholder summary for each published research paper, focusing on the publications' main outcomes with practical value. To provide stakeholders with a comprehensive overview of the project's summaries, PoshBee prepared a "Stakeholder summaries booklet". The booklet contains 19 stakeholder summaries, 15 of which are available in languages other than English (French, Italian, German, etc.).

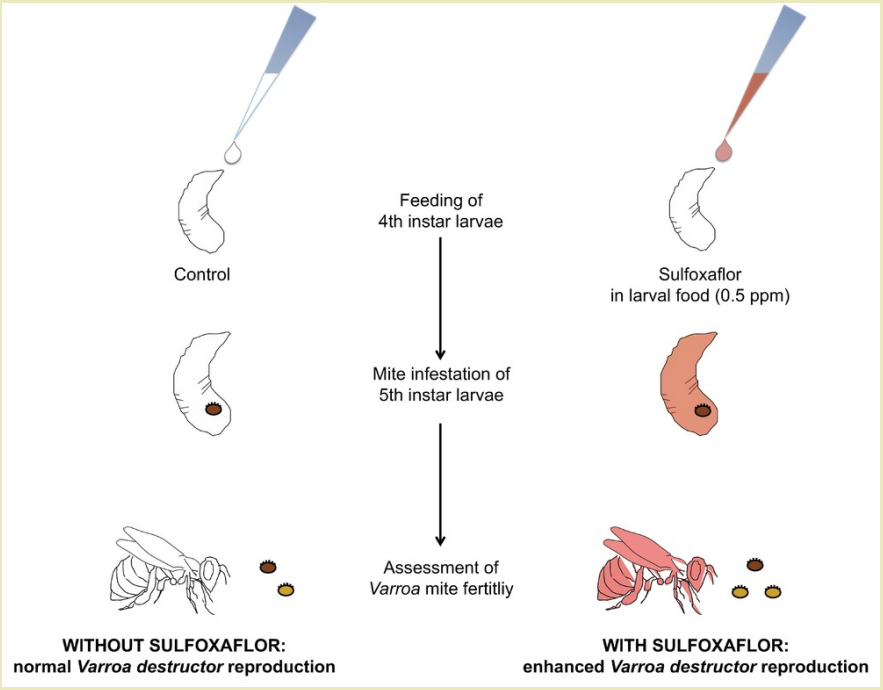
Download the Stakeholder summaries booklet

Since its beginning in 2018, PoshBee has been working on transforming its scientific results into practical recommendations. In that spirit, the project has published a total of 16 practice abstracts on the EIP-AGRI platform presenting the practical implications of its results. These concise pieces of information cover the project's full life cycle, from its objectives (presented in practice abstract 1) to its results.

Read practice abstracts

PoshBee making results matter

PoshBee partners published one of their policy-related key exploitable results called "Sulfoxaflor can benefit *Varroa destructor* and might interact with a commonly used acaricide" on the Horizon Results Platform. This result shows that field-realistic concentrations of sulfoxaflor can increase the reproduction of the ectoparasitic mite *V. destructor*. Furthermore, in combination with coumaphos, sulfoxaflor can also cause higher mortality in bee larvae. This data supports that neonicotinoid (-like) insecticides can not only have negative consequences for bees, but also seem to have positive effects on mites.



Read more

PoshBee Success story

PoshBee was celebrated in a recent '[Success story]' by the European Commission's Directorate-General for Research and Innovation. The story called attention to PoshBee's evidence, tools and policy proposals to enhance bee health.

Read more

PoshBee's Technical Innovations page has new additions aiming to guide beekeepers and environmental managers in their everyday practice.

Photo Archive for Evaluation of Honeybee Colony Populations in Field and Semi-Field Studies

An integrated system for field studies on honey bees

Read more

This video presents the MALDI mass spectrometry imaging (MSI) strategy to localise and monitor peptide changes in whole honey bee bodies following an experimental model of exposure to biotic and abiotic stressors.

This video presents the Bottom-Up Mass Spectrometry-Based Proteomics workflow. It aims to identify proteins, detect impacted biological pathways and discover new markers of exposure to abiotic and biotic stressors.

Thank you for supporting

PoshBee and bee health!

Check out our previous newsletters and follow the project channels on Twitter, Facebook, and Youtube!

H2020 project PoshBee