



Metabolic Insights Signs Exclusive Botanical Bio-Fungicide Agreement with a Leading European Pesticides Manufacturer

This follows a recent agreement with a small Israeli company for another botanical bio-fungicide. Company now offers 10 materials to pesticides manufacturers

3 April, 2023 — [Metabolic Insights](#) is pleased to announce we have formed an exclusive agreement with a European based global pesticides manufacturer on one of our botanical active materials. This closely follows another similar agreement made earlier this year with an Israeli firm mainly active in the U.S. home and garden market. Metabolic Insights now offers 10 materials with promising applications for revolutionary new plant-based biopesticides.

We're heading into Q2 with the wind at our backs, having set world records for finding the most environmentally friendly active ingredients (AI) both per euro spent and per year. We were also recently recognized once again as an important contributor to the biopesticides development effort, receiving a second EU grant in the amount of €700,000.

Hundreds of synthetic pesticides have been banned over the last 60 years as the threats they posed to human health became better understood. At the same time, the UN estimates global food production will need to double by 2050 to feed the world's population. At Metabolic Insights, we believe plant-based biopesticides are key to ensuring a safe and plentiful food supply for the future.

Plants naturally produce thousands of pest-thwarting compounds, but relatively few have been isolated and proven effective against pests in a lab setting. We've pioneered a proprietary, scalable, and economically viable platform for discovering, selecting, and developing active ingredients for use in biopesticides. We've joined forces with the Aharoni research lab at the Weizmann Institute of Science, led by award-winning professor Asaph Aharoni, to develop recipes for economical upscaling of our leading active materials by way of synthetic biology.

The list of banned synthetic pesticides is now in the hundreds, and grows larger every year. This increasingly restrictive regulatory environment means developing a new synthetic pesticide can cost hundreds of millions of dollars and take over a decade to bring to market. This high bar significantly limits producers' ability to create new conventional pesticides. To make matters worse, pests have grown steadily more resilient to conventional pesticides over time.

Metabolic Insights' active ingredients can be commercialized within 5 years at a cost of around \$15 million. So far we have patents pending on 9 products, and future patents will address formulation, process, scalability, and mode of action. These ingredients will ultimately be marketed to biopesticide producers for use in their products.



About Metabolic Insights

Metabolic Insights' expertise is in the discovery and development of plant-based compounds for crop protection and productivity. Its mission is to find breakthrough innovative compounds and bring them to the agriculture market. The company brings together multidisciplinary work of biologists, chemists, agronomists and agrotechnical experts, registration, IP and more. Our leadership team combines extensive management experience, with backgrounds including plant science, research, product development, and technology. Four of our seven key team members hold PhDs. Our team includes:

Amir Noy, CEO - Over 20 years of international business experience in high level managerial positions at various tech and medical device companies; served as CEO of Alpha BioTech Ltd, a subsidiary of the Swiss company Nobel Biocare; holds a BSc and MSc from the Technion and an MBA from Tel Aviv University.

Ido Korman, CTO and Co-founder - Previously VP of development and technology at STK Bio-Ag Technologies; worked for 4 years with World Bank projects as the Professional Support Manager for Developing Countries; held senior strategy and development positions at ADAMA; hands-on experience with cultivation of fruits and flowers.

David Panik, CSO and Co-founder - Expertise in chemistry, plant metabolism, biotechnology, molecular biology, and genetics; held several roles at Evogene; conducted extensive research in academic settings; holds a post-doctorate from the Weizmann Institute of Technology and a PhD from Hebrew University Jerusalem.