

POSITIVE EFFICACY RESULTS FOR FLAVOCIDE™ IN NEW PEST TYPES

- **Positive results with Flavocide show control of Diamondback moth and Two-spotted mite**
- **Both pests have global impact, negatively effecting a broad range of crops and plants**
- **These results continue to build on the positive results generated from the broad testing program being completed across key crop pests**
- **This expanding dataset of positive results is supporting the Company's engagement with many potential commercial partners in the Crop Protection vertical**

Bio-Gene Technology Limited (ASX: BGT, "Bio-Gene" or "the Company"), an agtech development company enabling the next generation of novel insecticides to address insecticide resistance, is pleased to announce further positive efficacy results for Flavocide versus Diamondback moth larvae, and Two-spotted mite adults, in laboratory studies carried out by **cesar**.

Richard Jagger, Bio-Gene CEO, commented: "It is encouraging to see our compound demonstrating control of these major global pests, and warranting further field testing. These results continue to build positive data for Flavocide across Bio-Gene's important crop protection vertical. Positive results already generated from laboratory and field studies across a broad range of crop pests including resistant strains, are enabling our team to proactively engage with potential commercial partners and discuss the potential versatility of our technology.

"Positive results have now been generated across a significant number of major crop pest species, including; Green peach aphid, Russian wheat aphid, Brown planthopper, Redlegged earth mite, Two-spotted mite, Diamondback moth, and grain storage pests Lesser grain borer, Rusty grain beetle and Sawtoothed beetle. These results are importantly accompanied by evidence of Flavocide having minimal impact on bees and other beneficial insects, when compared with incumbent products.

"We can now actively promote more targeted evaluation including field testing based on the needs and requirements of potential partners."

Diamondback moth (*Plutella xylostella*) is highly invasive and a major global pest of cruciferous vegetables (cabbage, broccoli, cauliflower) and oilseed (canola) crops, costing the world economy US\$4-5 billion annually¹. Despite extensive research, the Diamondback moth remains one of the most difficult crop pests to control, with various populations showing resistance to a wide range of insecticides.

Bio-Gene's study vs. Diamondback moth larvae included two strains of the pest and Flavocide was shown to control both strains.

Two-spotted mite (*Tetranychus urticae*) is a common pest damaging a wide range of vegetable, fruit and ornamental crops, often appearing due to excessive insecticide use, where insecticides kill natural control insects that are protecting plants. Two-spotted mite is extremely polyphagous, meaning it can feed on many different plant types, and is also known as a 'cosmopolitan' pest due to its prevalence in indoor protected crop conditions as well as outdoor environments, feeding on individual plant cells and creating extensive leaf, flower and fruit damage.

¹ [Center for Agriculture and Biosciences International](#)

Bio-Gene's study with Two-spotted mite adults included two strains - a susceptible strain and a strain resistant to synthetic pyrethroids - both of which were effectively controlled by Flavocide.

These two results add further to an expanding portfolio of positive data, evidencing the effectiveness of Flavocide in controlling major pests, including resistant strains, within Crop Protection. Further testing will continue with **cesar** and other research collaborators in line with requirements of potential commercial partners.

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For further information, please contact:

Bio-Gene Technology Limited:

Richard Jagger

Chief Executive Officer

P: 03 9628 4178

E: bgt.info@bio-gene.com.au

Roger McPherson

CFO & Company Secretary

P: 03 9628 4178

E: bgt.info@bio-gene.com.au

Media/investor relations:

Ben Walsh or Kyahn Williamson

WE Buchan

T: 03 9866 4722

E: bio-gene@we-buchan.com

About Bio-Gene Technology Ltd

Bio-Gene is an Australian agtech development company enabling the next generation of novel insecticides to address the global problems of insecticide resistance and toxicity. Its novel platform technology is based on a naturally occurring class of chemicals known as beta-triketones. Beta-triketone compounds have demonstrated insecticidal activity (e.g. kill or knock down insects) via a novel mode of action in testing performed to date. This platform may provide multiple potential new solutions for insecticide manufacturers in applications across animal health and crop protection, as well as in public health, and in consumer applications. The Company's aim is to develop and commercialise a broad portfolio of targeted insect control and management solutions.

About cesar Pty Ltd

cesar is an independent research organisation committed to a sustainable future by providing world leading science, technology and research into agricultural pest control and wildlife conservation.