

Bio-Gene Technology Company Overview

May 2018

*“AN AGTECH DEVELOPMENT COMPANY ENABLING A NEW GENERATION OF
NOVEL INSECTICIDES THAT ADDRESS INSECTICIDE RESISTANCE”*

BIO-GENE SNAPSHOT

BIO-GENE
TECHNOLOGY
LTD

An insecticide
technology & IP
development
company

BETA-TRIKETONES
Platform Technology

Key technology enabling a
new generation of novel
insecticides to address the
increasing problem of
insecticide resistance

Data shows initial products **Flavocide™**
& **Qcide™** can be highly effective for
insect management

Potentially suitable for
commercialisation as multiple target
insecticides

Collaborate with commercial
partners to bring multiple insect
indications to market

Targeting public health, animal health
& crop protection sectors

EXECUTIVE SUMMARY

Novel insecticide platform leading to new effective products

Unique (new) mode of action (MoA) identified – alternative chemistry to current incumbent insecticides in a market seeking new products – opportunities in a range of market segments with multiple revenue sources

Strong test data

Significant test results (& new tests underway with world leading institutions) demonstrate effectiveness of Flavocide™ & Qcide™ at controlling resistant pests, as well as product safety

Multinational partnerships targeted

Aim to establish strategic testing partnerships with multinational public health, animal health & crop protection & consumer companies as part of Bio-Gene's partnership & commercialisation strategy

Manufacturing optimisation project underway with CSIRO

To produce Flavocide™ at commercial rates & pricing

Established global patents

Growing IP portfolio with additional applications filed

Appointment of new board members & advisors

Diverse skill set with significant industry experience

BOARD MEMBERS & MANAGEMENT



DON BRUMLEY

Non-Executive Chairman

- 25+ years as a senior partner & leader of Ernst & Young – Oceania
- Significant experience across IPOs, transactions, audit & advising growing entrepreneurial companies



RICHARD JAGGER

CEO & Managing Director

- 20+ years working in agriculture globally
- Most recently employed as Managing Director of Sinochem Australia
- Previously spent 15+ years at Monsanto in various management roles



PETER MAY

Executive Director, R & D

- 20+ years experience in crop protection market with companies Orica & Crop Care Australasia (now Nufarm)
- Founded Xavca, consulted to companies such as Syngenta & Sorex (BASF)
- Former CEO & Chairman of BioProspect (now Medibio, ASX:MEB)



ROBERT KLUPACS

Non-Executive Director

- 30+ years corporate experience in international tech development
- Previously MD & CEO of ASX-listed Circadian Technologies Ltd
- Previously MD & CEO of ES Cell International Pte Ltd
- Registered Australian patent attorney



KEVIN RUMBLE

Non-Executive Director

- Founding Director of Bio-Gene
- 20+ years experience in new plant propagation, farming & live plant transport techniques
- Involved in the development of Qcide™ & development of Flavesone as a first step in the commercialisation of Flavocide™



ROGER MCPHERSON

Chief Financial Officer & Company Secretary

- 15+ years experience as CFO & Company Secretary across both listed & unlisted companies
- Experience in the pharma manufacturing, biotech & biopharma industries
- Previously CFO & Co-Sec of TPI Enterprises (ASX:TPI)

KEY ADVISORS TO THE BOARD



DOUG RATHBONE

Advisor to the BGT Board

- 40+ years experience in agriculture, most recently as Managing Director of Nufarm, a position he held for 15+ years
- Under his leadership, Nufarm became one of Australia's most successful agricultural firms with global sales >\$2.5B



PROF. CATHERINE HILL

*Purdue University
BGT Scientific Advisory
Board Member*

- Purdue University, Dept. of Entomology
- Showalter Faculty Scholar
- President's Fellow for the Life Sciences
- Authority in new insecticide development & novel chemistry

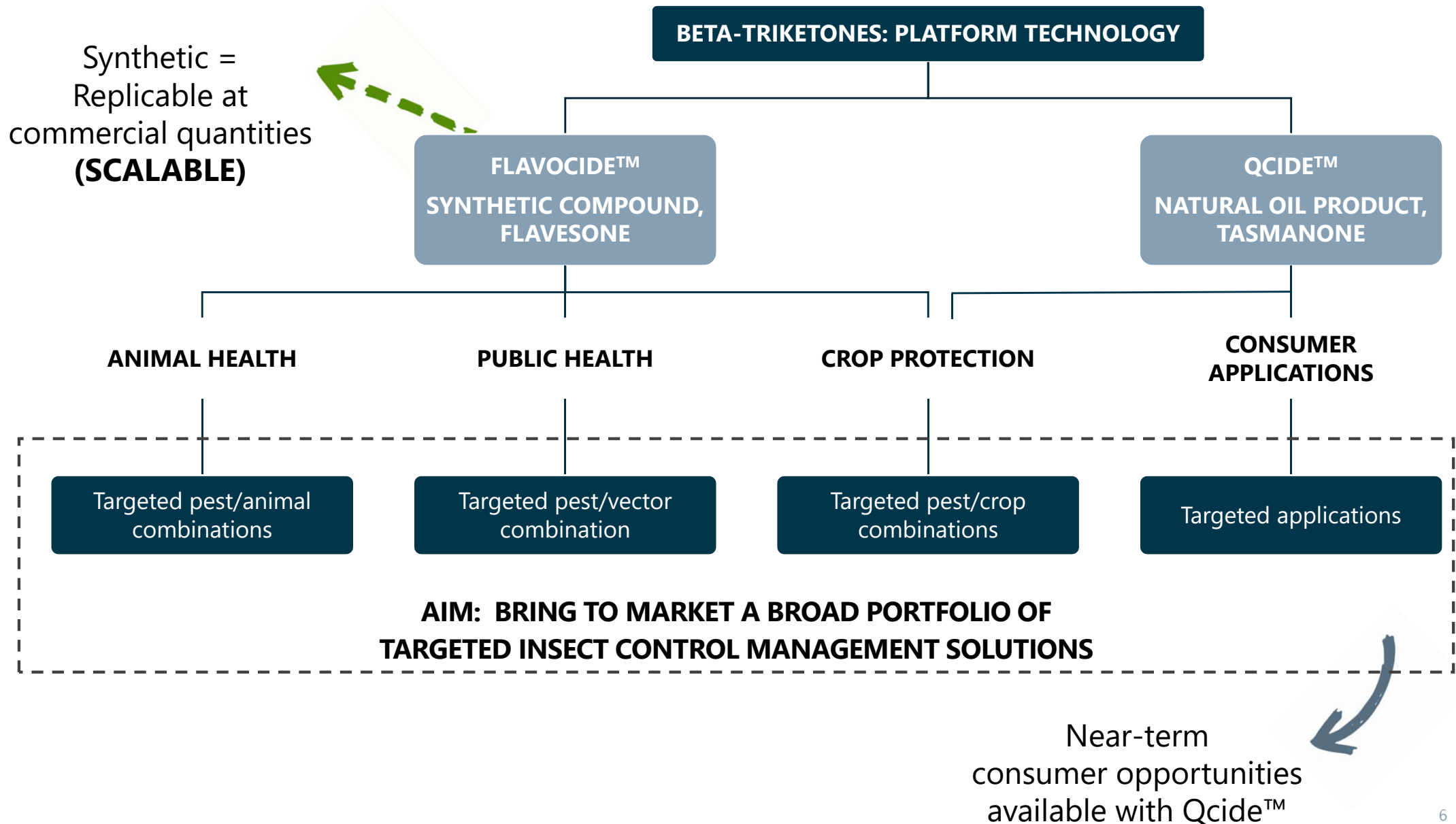


NEIL ANDERSON

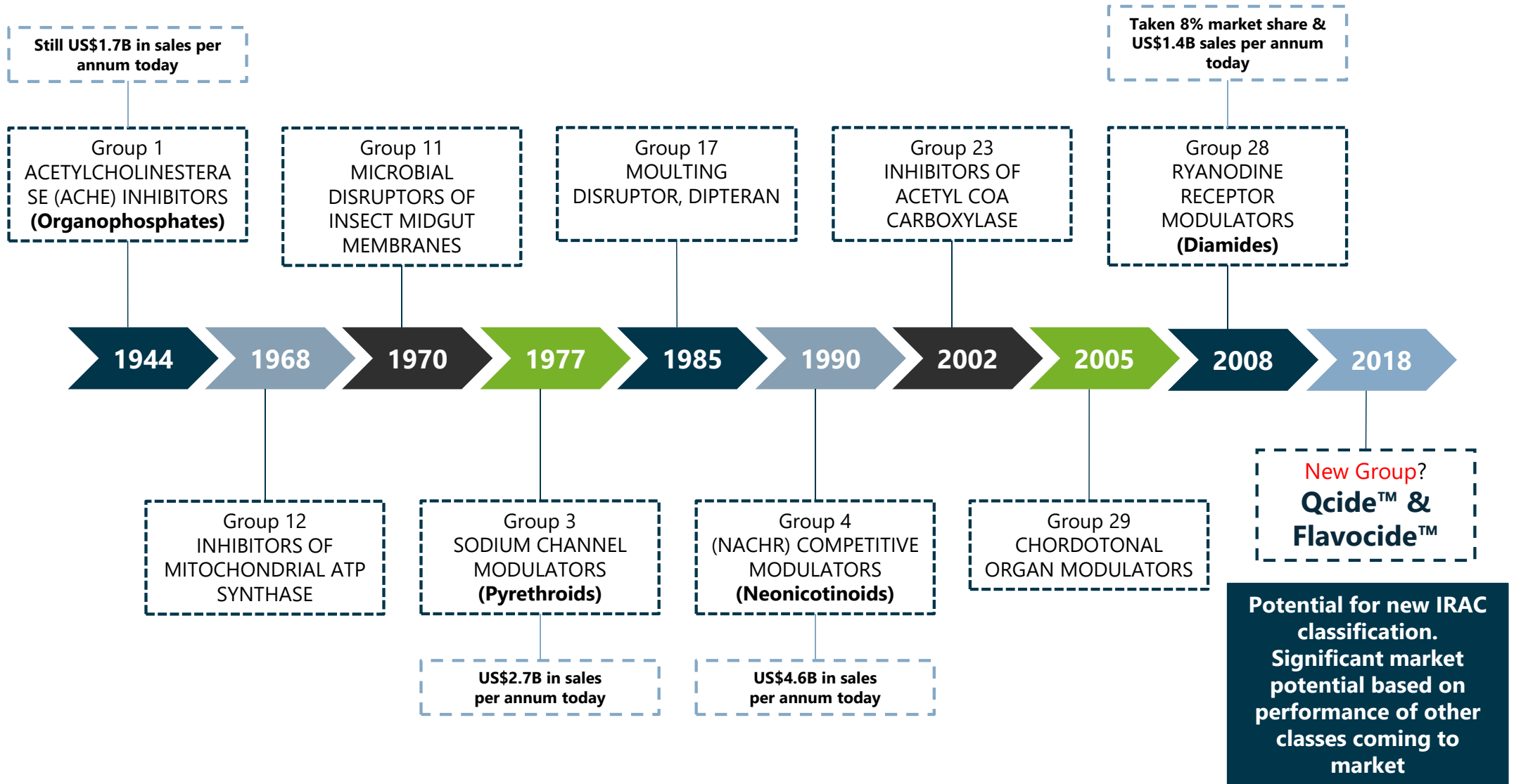
*Chemistry & Manufacturing
Consultant*

- Industrial Chemist
- Employed by Monsanto for 40 years
- Specialist in formulation development, production, & process management
- Qualified for manufacturing plant audits, quality & environmental management

BIO-GENE TECHNOLOGY APPROACH

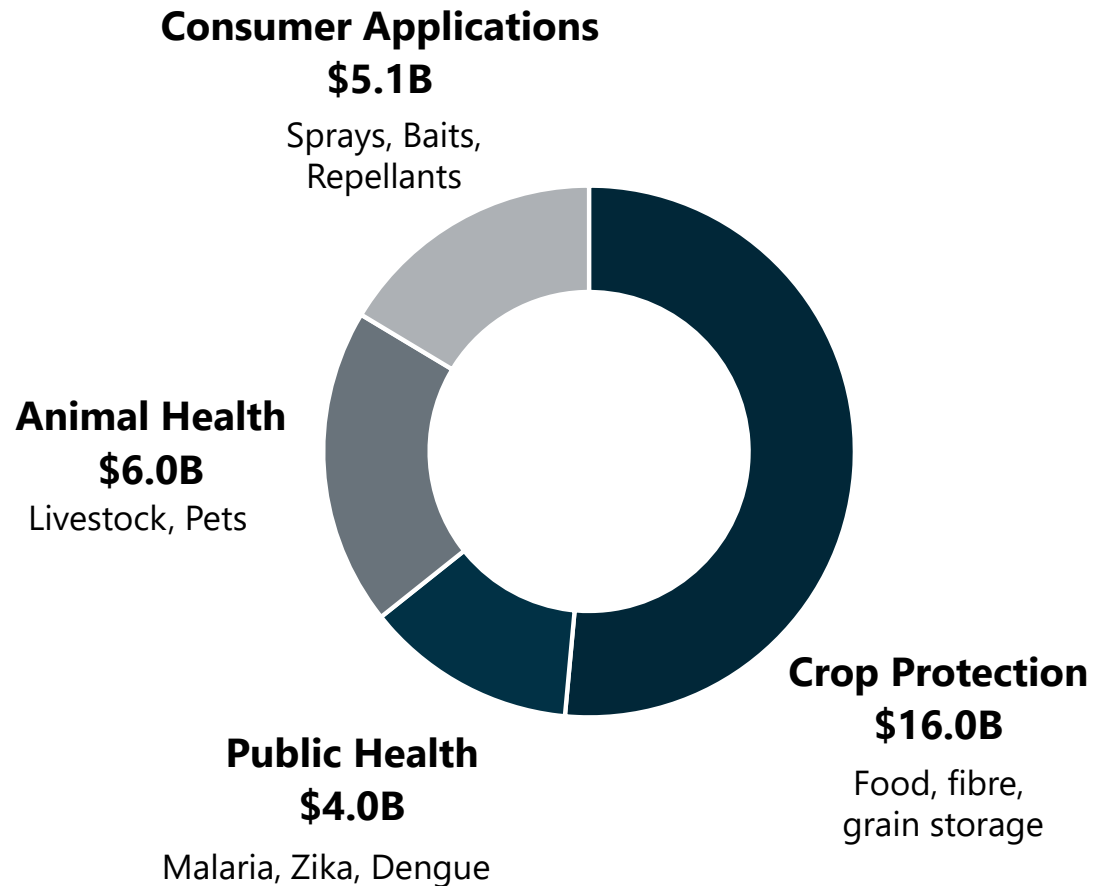


NOVEL MODE OF ACTION (EXAMPLE CROP PROTECTION)



Currently performing research to identify specific sites within the known unique channel

LARGE GLOBAL, GROWING MARKETS



Industry dominated by multi-national AgChem companies

BASF
We create chemistry

BAYER
Bayer CropScience

DOW
Dow AgroSciences

CHEMCHINA

SUMITOMO CHEMICAL

Nufarm

Seeking Safe Novel Solutions to complement off-patent insecticides

BIO-GENE
TECHNOLOGY
LTD

AgTech with access to new technology platform leading to new insecticides desired by AgChem industry

SEGMENTS / PESTS

SEGMENT	PESTS
Animal health	Ectoparasites (ruminants): cattle tick (<i>Rhipicephalus microplus</i>), buffalo fly Ectoparasites (companion animals): paralysis tick, fleas
Public health	Mosquitoes, flies
Urban pests	Flying pests, cockroaches, ants, other crawling pests
Grain storage	Lesser grain borer (<i>Rhyzopertha dominica</i>), Flat grain beetle (<i>Cryptolestes</i> spp.) & others
Crop	Lab & microcosm bioassays: Red legged earth mite (<i>Halotydeus destructor</i>) Green peach aphid Russian wheat aphid Diamondback moth <i>Helicoverpa armigera</i> Field testing: Two-spotted mite Cotton aphid White fly Lepidopterous larvae Brown plant hopper (rice; Thailand)

PROGRESS & GOALS

BGT continues to build a suite of research data across a number of pests and verticals

		Research Partner Committed	Initial Testing	Follow Up Testing	Commercial Partnership	Product Development
Crop Protection	Beneficial Arthropods	Complete	Underway / Agreed Upon			
	Lesser Grain Borer	Complete	Complete	Underway / Agreed Upon		
	Other Grain Storage Pests	Complete	Complete	Underway / Agreed Upon		
	Russian Wheat Aphid	Complete	Complete			
	Green Peach Aphid	Complete	Complete	Underway / Agreed Upon		
	Diamond Backed Moth	Complete	Underway / Agreed Upon			
	Cotton Bollworm	Complete	Underway / Agreed Upon			
	Brown Planthopper	Complete	Complete			
	Silverleaf Whitefly	Complete	Complete			
	Red legged Earthmite	Complete	Complete	Underway / Agreed Upon		
	Two Spotted Mite	Complete	Underway / Agreed Upon			
Public Health	Aedes aegypti Mosquito	Complete	Complete	Underway / Agreed Upon		
	Culex Mosquito	Complete	Complete	Underway / Agreed Upon		
	Anopheles Mosquito	Complete	Complete	Underway / Agreed Upon		
Consumer	Mosquito	Complete	Underway / Agreed Upon			
	Housefly	Complete	Underway / Agreed Upon			
	Crawling Pests	Complete				
Animal Health	Cattle Tick	Complete	Complete			
	Buffalo Fly	Complete				

Legend:
■ Complete
■ Underway / Agreed Upon

Initial testing has demonstrated control of susceptible & resistant populations

GRAIN STORAGE PESTS

- Combination treatments with Flavocide™ shown to control the full spectrum of key pests evaluated, including strains resistant to currently used insecticides

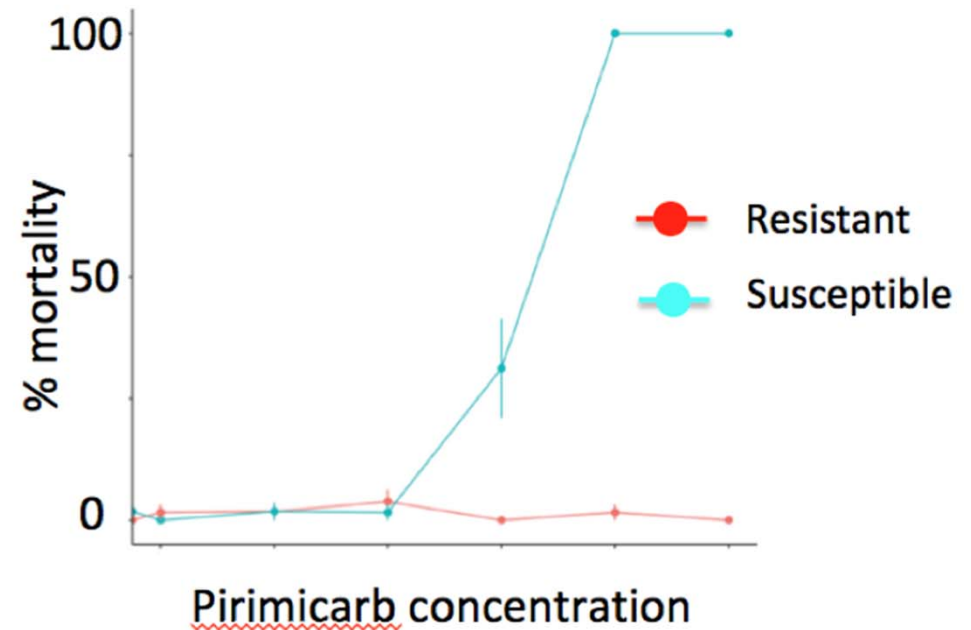
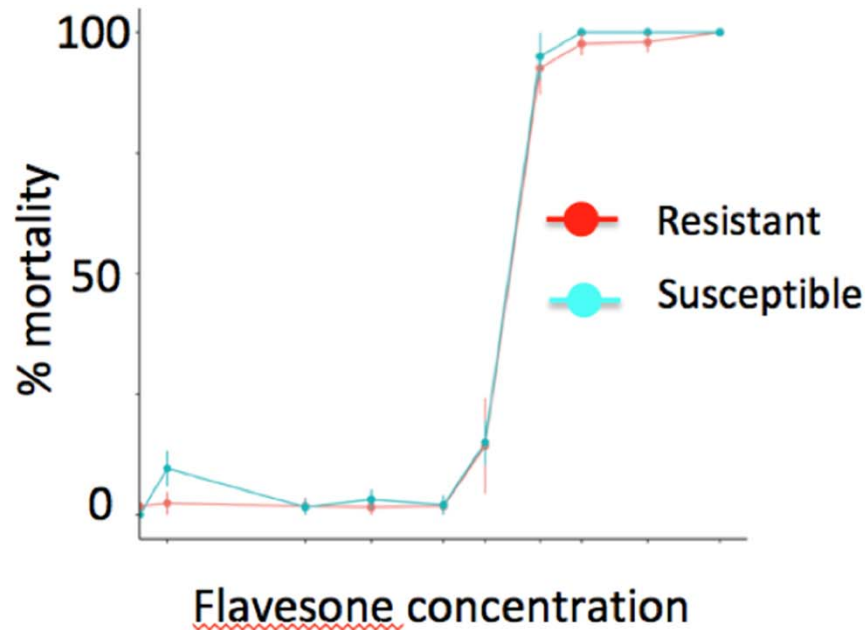
Chemical Class	Lesser grain borer	Flat grain beetle	<u>Sawtoothed beetle</u>	Flour beetles	Grain weevils
<u>Flavocide™</u> + OP	✓	✓	✓	✓	✓
<u>Flavocide™</u> + SP	✓	n/a	n/a	n/a	n/a
<u>Flavocide™</u>	✓	✓	✓	-	-
Organophosphates	*	✓	*	✓	✓
Pyrethroids SP	✓	✓	✓	✓	*
<u>S-methoprene</u> IGR	*	-	✓	-	-
<u>Spinosad</u>	✓	-	-	-	-

✓ activity - no activity * *resistance widespread* *n/a test not yet conducted*

Demonstrates the compatibility of Flavocide™ with resistance management strategies currently being used in the grain protection industry

GREEN PEACH APHID

- Control of susceptible and highly resistant strains of Green peach aphid demonstrated



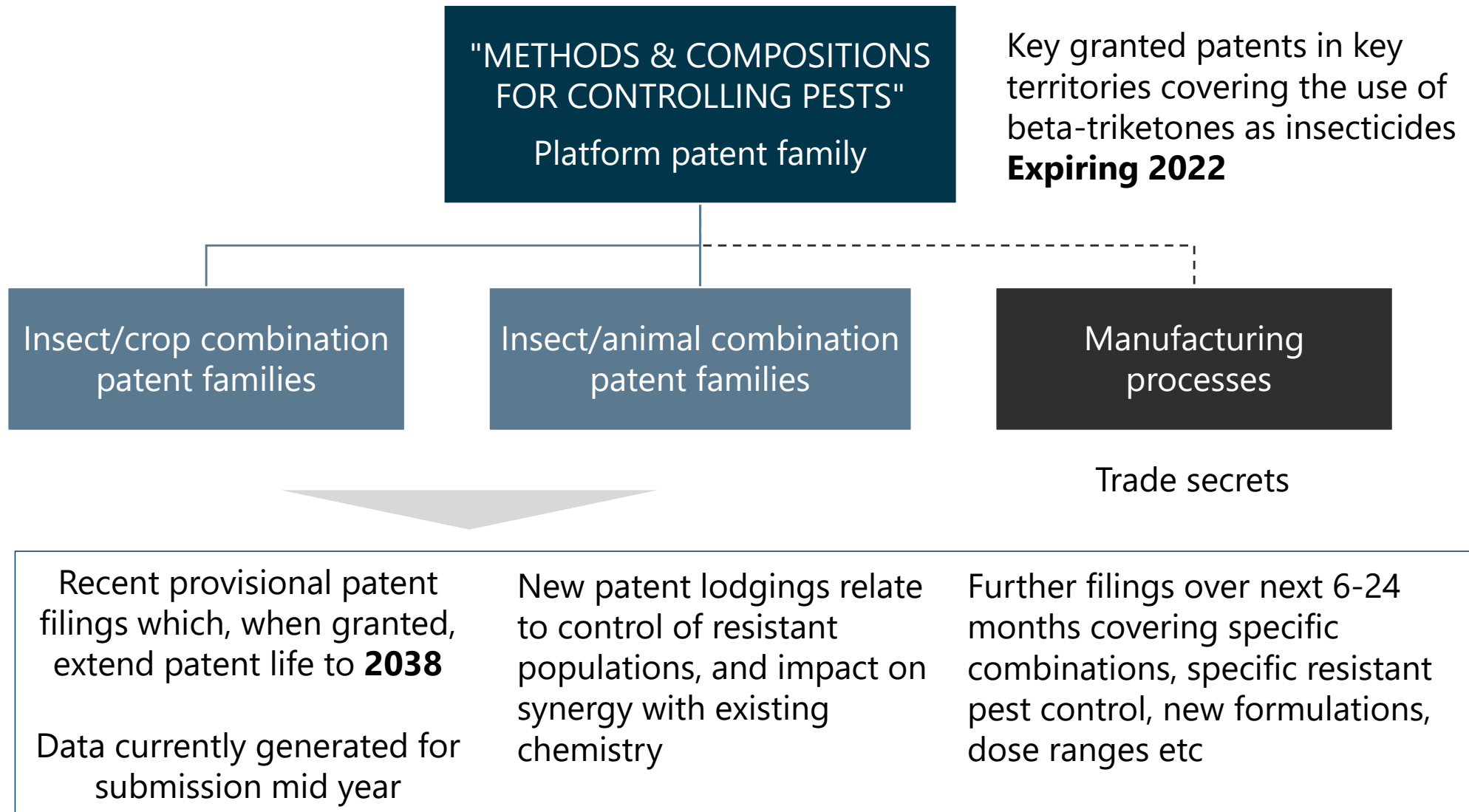
Flavocide™ outperforms Pirimicarb (a commonly used insecticide) in control of a highly resistant strain of the pest

TOXICOLOGY UPDATE

- Flavocide™
 - Completed acute toxicity six pack
 - Mutagenicity & carcinogenicity tests completed
 - Chronic toxicity testing – seven day sighting study completed
 - 28 day toxicity study (dermal & oral) commenced
 - Physical/chemical studies completed

- Qcide™
 - Preliminary toxicity testing completed
 - Acute toxicity six pack commencing

GROWING INTELLECTUAL PROPERTY



ADDING VALUE BY IMPROVING FLAVESONE MANUFACTURING



CSIRO collaboration

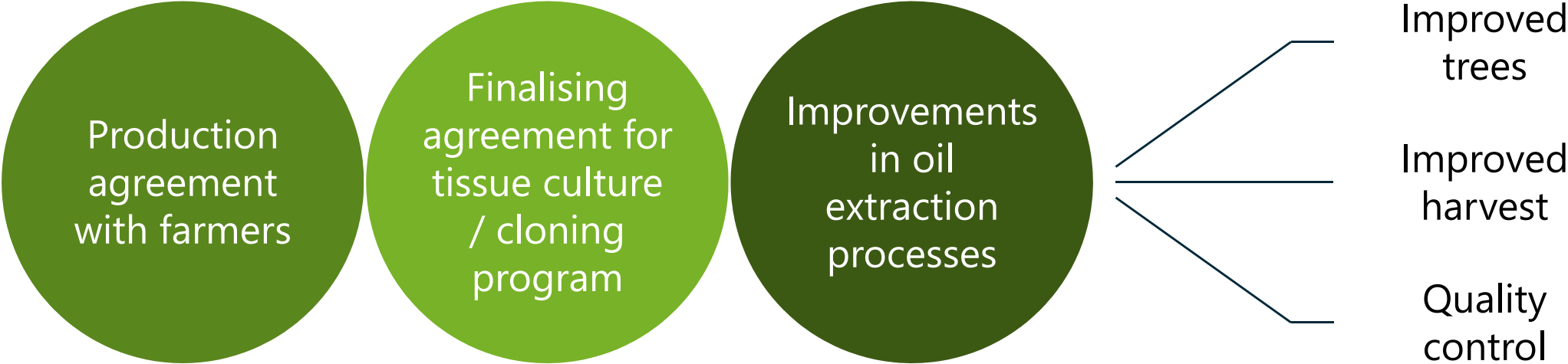
- Provides unique internal knowhow
- Experts in process improvement
- Collaboration commenced March 2017 – supported by CSIRO with \$50k “kick-start grant”



Results to date...

- Yield improvement of >50%
- Indicative cost reduction of >50%
- Unique process developed (I.P.)
- Further expected improvement over next 6-12 months, possible further grant

ONGOING IMPROVEMENTS IN QCIDE™ PRODUCTION



New collaboration

- Provides specific tree production knowledge & programs
- Experts in extraction processes
- Potential for government grant

2018 GOALS & OBJECTIVES

	Update
Communicate with potential partners	<ul style="list-style-type: none">• Introductory meetings held with 7 international companies to date, with 4 NDAs already signed. Further meetings planned with additional companies
Demonstrate activity of lead molecules	<ul style="list-style-type: none">• Continued work on significant pests and efficacy on resistant populations. More studies to be reported on soon
Implement regulatory & Toxicology studies	<ul style="list-style-type: none">• 28 day sighting study completed for Flavocide™ – awaiting report but no red flags.• Qcide™ “6 pack” base toxicology work about to commence• Physico / chemical analysis studies completed
Improve production processes	<ul style="list-style-type: none">• Phase three commenced on CSIRO Flavocide™ production project• Partner identified and protocols agreed for tree development program and Qcide™ extraction improvement project

2018 GOALS & OBJECTIVES

	Update
Continue to clarify Mode of Action	<ul style="list-style-type: none">• Next phase commencing which identifies specific “site” of application within known unique channel
Generate data to develop further I.P.	<ul style="list-style-type: none">• Data generated to support our additional patent applications, which will be submitted early July.• Manufacturing I.P identified via CSIRO project• Continue to review efficacy studies for any additional I.P. opportunities.
Recruit leading scientific & industry specialists	<ul style="list-style-type: none">• Highly experienced manufacturing & formulation specialist consultant recruited• Continue to identify and align with experts in appropriate fields
Other developments	<ul style="list-style-type: none">• Identification of grant potential and on-going applications• Review opportunities for complimentary technology

REGULAR NEWS FLOW SINCE LISTING

- 28/05/2018 Positive Results With Flavocide™ vs. Grain Storage Pests
- 26/04/2018 Positive Efficacy Test Against Another Major Crop Pest (GPA)
- 17/04/2018 Manufacturing Project with CSIRO Advances To Stage 3
- 09/04/2018 Positive Result In Efficacy Test With Major Cereal Crop Pest (RWA)
- 26/03/2018 Positive Results For Flavocide™ With Major Rice Pest (Planthopper)
- 21/03/2018 Animal Health Testing And Collaboration Update (Virbac)
- 01/03/2018 Prospectus For Loyalty Options Lodged
- 14/02/2018 Key Appointments To Advisory & Management Teams (Hill and May)
- 31/01/2018 Pilot Study Shows Flavocide™ Activity Against Mosquitos (Purdue)
- 21/12/2017 Bio-Gene 2018 Goals & Objectives Following Successful IPO
- 19/12/2017 Bio-Gene Announces Positive Safety Results
- 11/12/2017 Bio-Gene Reports Positive Initial Efficacy Results (RLEM)
- 04/12/2017 Bio-Gene Appoints Mr Doug Rathbone as an Advisor
- 01/12/2017 Bio-Gene Extends Research Collaboration With QDAF
- 30/11/2017 Bio-Gene Extends Research Collaboration With CSIRO
- 29/11/2017 Bio-Gene Completes \$7.1m IPO to List on ASX

CORPORATE UPDATE

	Numbers	Description
Shares on Issue	127,724,471 [*]	• Includes all shares both quoted and not quoted
Voluntary Escrow Shares	17,097,682	• Shares come out of escrow 30/5/18
Remaining Escrow Shares	21,051,299	• Various release dates commencing 28/6/18 through to 29/11/19
Shares Currently Quoted on ASX	106,673,172	• Does not include the shares subject to ASX imposed escrow
Current Market Cap	\$20.4 million	• Based on closing share price on 29/5/18 of \$0.16

* Excludes 2,000,000 Broker Options and 25,056,730 Loyalty Options

CORPORATE UPDATE

- Cash held at 31 March 2018 - \$7.2 million
- As per Prospectus and per current plans funds will last well into 2019 (excludes any potential proceeds from Loyalty Options)
- Some funds have been reallocated from Flavocide™ to Qcide™ research
- Loyalty Options expire 4 December 2018, potential to raise ~\$5 million

SUMMARY



New insecticide platform chemistry, beta-triketones demonstrating a novel mode of action



Enables products Flavocide™ & Qcide™ shown to be effective against insecticide resistant pests



Applications across multiple market segments including public health, animal health, consumer products & crop protection / grain storage



Significant opportunity for ongoing development through partnerships with major AgChem companies



Collaborative approach per application can be duplicated across projects providing many product opportunities



Established global patents & intellectual property with additional applications filed



Appointment of new board members & advisors with diverse skill set & significant industry experience

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