

World Leading Industrial Yeast Biotech

MicroBioGen. Sustainable biological solutions for a finite world.

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MicroBioGen Overview

Founded in

2001

Novozymes
since 2014

8 products commercialised

Team of 30



1 Partner 8 Collaborators **A\$8m**Federal funding

Revenue ~A\$10m

65%

Revenue Growth
(4-year CAGR)

Record
Operating Margin

48%

(H2 FY23E)













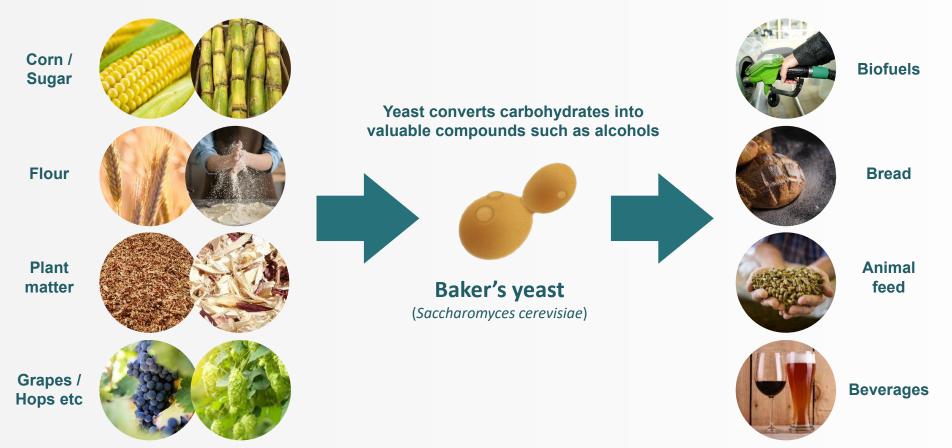
Investment Highlights

- 1 World leading 'yeast innovation as a service'
- 2 Unparalleled library of elite genetics
- 3 Multi-industry platform technology
- 4 Delivering ESG focused solutions
- 5 Bioethanol royalty revenue from Novozymes
- 6 Expanding in existing and emerging industries



MicroBioGen Leverages World's Most Widely Used Microorganism

Yeast underpins ~US\$2 trillion in products globally





Platform Technology Delivers Unmatched Industrial Performance

Step 1: Elite Genetics are developed and continuously improved over time

Step 2: Stacking enables characteristics to be selected and combined based on a customer's specific requirements

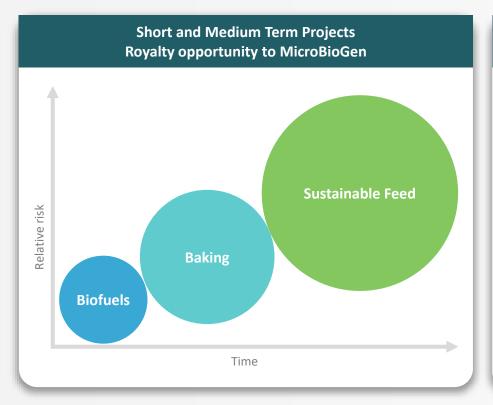
		Mic	roBioGen	's elite yeast	genetic lib	rary - exan	nples			
Application	Ethanol tolerance	Temperature tolerance	Acid resistance	Osmotic stress resistant	Low glycerol by-product	Produce enzymes non-GM	Grow on galactose	Grow on organic acids	High protein	Grow on glycerol
1G bioethanol ¹										
2G bioethanol ²										
Baking yeast										
Feed yeast										
Industrial Benefits		Robus	stness		Optimisation			Innovation / Agili	ity	

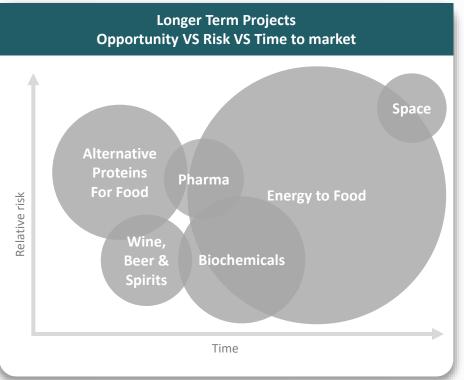
- ${\bf 1.} \quad \hbox{First-generation (1G) biofuels: Biofuels produced from food crops, } e.g. corn or sugarcane$
- 2. Second-generation (2G) biofuels: Biofuels produced from agricultural waste products, e.g. timber offcuts, crop residues or waste sugarcane pulp (bagasse)



MicroBioGen Platform Technology Markets

Short and Medium Term Projects are advanced and present significant ongoing Royalty Opportunities **Long Term Projects** have sizeable and growing global addressable markets

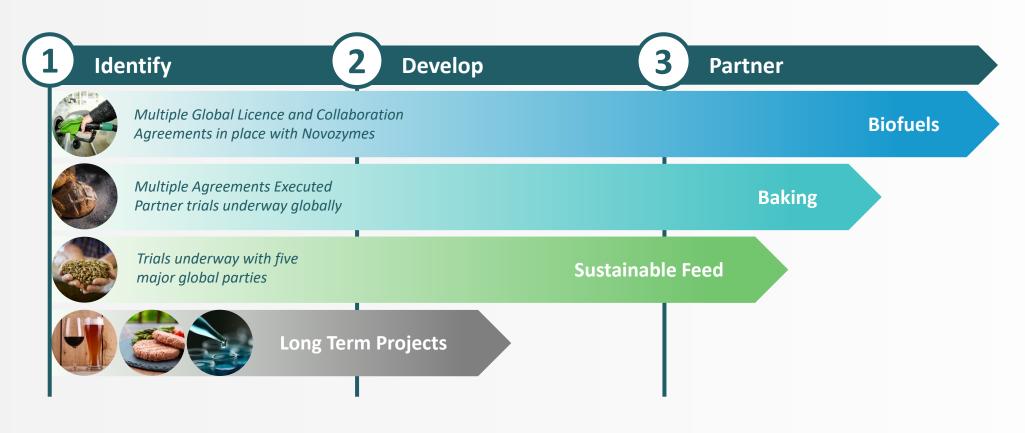






Strong Development Pipeline

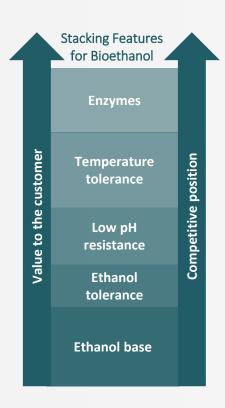
MicroBioGen has a diverse and catalyst-rich pipeline of growth projects spanning the entire commercialisation spectrum



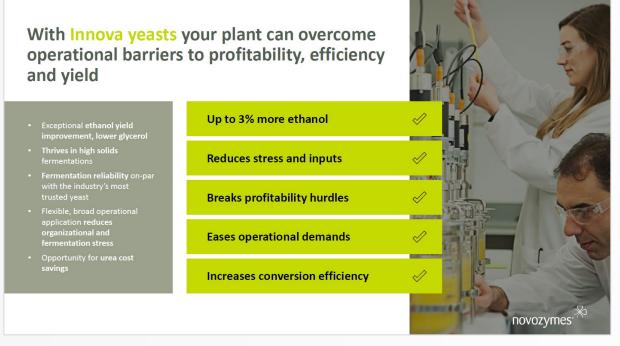


Bioethanol: Product Differentiation through Value Stacking

Through the incorporation of multiple unmatched improvements into bioethanol strains, the value of yeast has increased significantly



MicroBioGen/Novozymes developed yeast (Innova®) is the leading bioethanol producer in North America - the world's largest bioethanol market

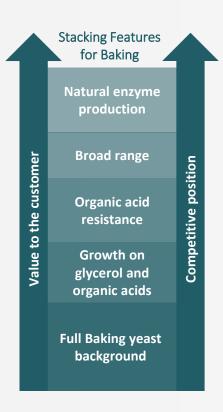


From Novozymes presentation at Fuel Ethanol Workshop (FEW), June 2022, Minneapolis

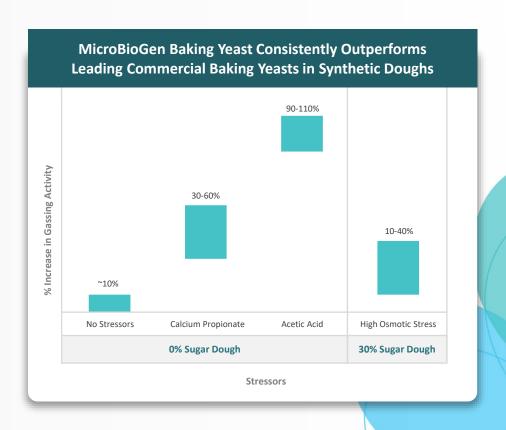


Baking: A Global Industry Ripe for Disruption

No major innovation in yeast strains for baking over last 40 years due to inability of major producers to successfully innovate



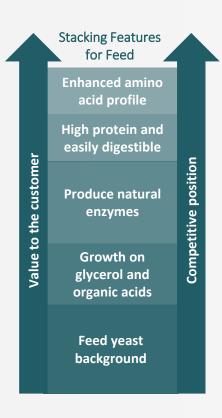
- Baking yeast market is 50x larger than the bioethanol market
- Baking yeast is sold on gassing activity
- MicroBioGen developed yeast are ~30-110% more resistant to baking preservatives
- Multiple agreements in place with global market leaders





Sustainable High Value Feed: World Wide Opportunities

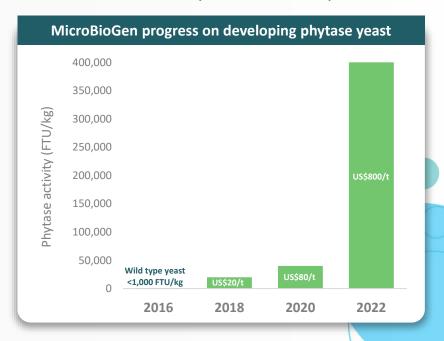
Growing global population and changing diets require more sustainable solutions



- Total global feed sales are >U\$\$500 billion per year
- World looking for sustainable feed solutions
- MicroBioGen yeast can be grown on low and negative value side streams and are significantly more valuable than protein alone
- Multiple collaborations in place with large feed manufacturers seeking waste stream solutions

Enzymes breakthrough

MicroBioGen developed yeast currently produce >400x more critical enzymes than other yeast





Collaboration and Royalty Model

MicroBioGen's licensing and collaboration model delivers long term royalties



MicroBioGen has enabled Novozymes to go from launch in 2017 to the market leader in the US in just 4 years

Product	Launch date	High acid tolerance	Enzyme expressing	Non-GM	Faster	Higher yield	More Robust
Innova® Drive	Feb-18						
Innova® Lift	Oct-18						
Innova® Force	Jun-19						
Innova® Fit	Feb-20						
Innova® Element	Jul-21						
Innova® Quantum	Oct-21						
Innova® Apex	Jul-22						
Innova® Turbo	Jul-22						

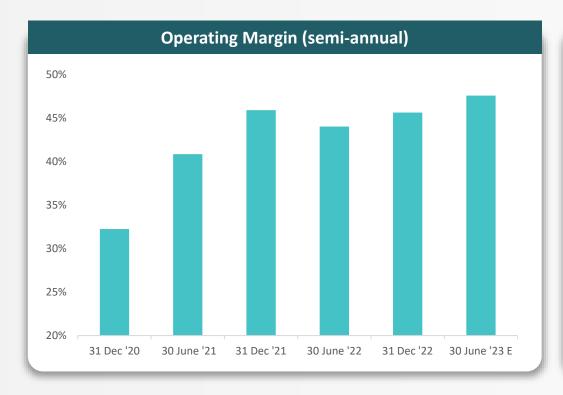
"Developed in collaboration with MicroBioGen, each of the Innova yeasts deliver never before seen exceptional robustness to operational challenges and demands."

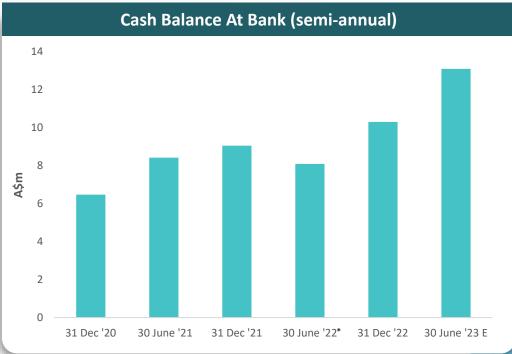
- Novozymes



Strong Historical Financial Performance

FY23 record year: Revenue, Margin and Cash







Senior Management

Core leadership team in place for over 10 years covering all aspects of commercialisation, R&D, IP and strategy



Geoff BellCEO and Managing Director



Jenny Hart



Dr Philip BellHead of Research, Principal
Scientist and Director



Dr Paul AttfieldPrincipal Scientist
and Director



- Co-founder and CEO since 2006 and has facilitated MicroBioGen's transformation from a research group into an international commercial success
- Member of MicroBioGen's Innovation Committee
- Prior experience includes over 15 years at two global investment banks in equity research and top rated research analyst

17 years



- Responsible for external stakeholder management
- Prior experience includes 23 years of commercial management at AGL Energy

11 years

- Co-founder and member of MicroBioGen's Innovation Committee
- Leads the R&D team of 20 scientists on activities day-to-day, one of the principal scientists since MicroBioGen's founding in 2001
- Focused on driving innovation in the company through the highly trained research team

22 years

- Co-founder and member of MicroBioGen's Innovation Committee, with world-leading expertise in fermentation and biochemistry
- One of MicroBioGen's original principal scientists, focused on commercialisation activities

22 years



Dr Ivan Rajkovic Head of IP

- Ex-Partner at Shelston IP
- Significant IP expertise to ensure the breakthroughs achieved are protected through an expanding patent portfolio
- Member of MicroBioGen's Innovation Committee



Andrew Fay
Corporate Development

- Andy has been a key driver in the corporate development team for nearly a decade
- High-level board experience across start-ups to large listed corporations has helped MicroBioGen negotiate several high-quality agreements

15 years



David PatonBusiness Development

- Over 18 years of corporate advisory experience at Citibank, Macquarie Capital, Morgan Stanley and Shaw and Partners
- Extensive experience across M&A, ECM, DCM and business development / strategy execution

<1 year

8 years



Outlook and FY24-26 Priorities

Currently assessing growth capital options

Next transformative stage is:

- Commercialising baking yeast
- Developing feed yeast opportunity
- Expanding R&D activities

Accelerating MicroBioGen's platform technology for organic growth requires:

- Additional scientists
- New equipment and larger laboratories

Business is self-funding, growing its cash balance and sustainability focused

The Assistant Minister for Climate Change and Energy, Senator the Hon Jenny McAllister, officially opened MicroBioGen's state-of-the-art new facilities in 2022













Thank You

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