



Bringing Science to Supplements

March 2019



ANATARA
LIFESCIENCES

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Key Investor Message

Anatara Lifesciences Ltd (ASX:ANR) is developing and commercialising innovative, evidence-based products for gastrointestinal health



Key Financial Details

ASX Code ANR	Market Capitalisation¹ \$24.7 million	Share Price¹ \$0.50
Current Cash² \$6.0 million	Ordinary Shares 49,413,236	Options 2,346,000

- ~\$1.25m **R&D tax refund** received for 2017-18 activities
- **Sufficiently funded** to execute on the development and partnering of our first human product



Company Highlights

- Detach (exclusive global license to **Zoetis Inc.**)
 - **APVMA approved** for use in piglets
- Key appointments with significant **human health experience**
 - Sue MacLeman, Dr Jane Ryan, Dr David Brookes, Steve Lydeamore
- First human product candidate
 - **Gastrointestinal ReProgramming (GaRP) dietary supplement** is aimed at restoring and maintaining **gut health**
 - Significant **unmet market need** for **IBS** and **IBD** patients
 - **World-leading scientists and clinicians** form our Product Development Advisory Board
 - **Successful *in vitro* proof of concept studies**
 - **18 – 24 months to partnering milestone**



Animal Health

- Detach is a natural, safe, non-antibiotic product that **aids in the control of diarrhoea** (known as scour) in livestock
- In May 2018, Anantara signed an **exclusive licensing agreement with Zoetis Inc.**, the leading global animal health company, for the **worldwide development, manufacturing, distribution, and marketing of Detach** for livestock animals and horses
- Upfront payment of US\$2.5m, aggregate milestone payments of up to US\$6.3m and royalty of 3-4%³
- In October 2018, the Australian Pesticides and Veterinary Medicines Authority (**APVMA**) **registered Detach for use in piglets in Australia**





From animals to humans

Market Opportunity

Irritable Bowel Syndrome (IBS)

Affects around **11%** of the global population⁴

~50% of patients⁵ turn to dietary supplements and complementary medicines

Inflammatory Bowel Disease (IBD)

>5 million sufferers globally⁶

30-50% of IBD patients⁷ turn to complementary and alternative medicines

Low grade **inflammation**



Chronic **inflammation**



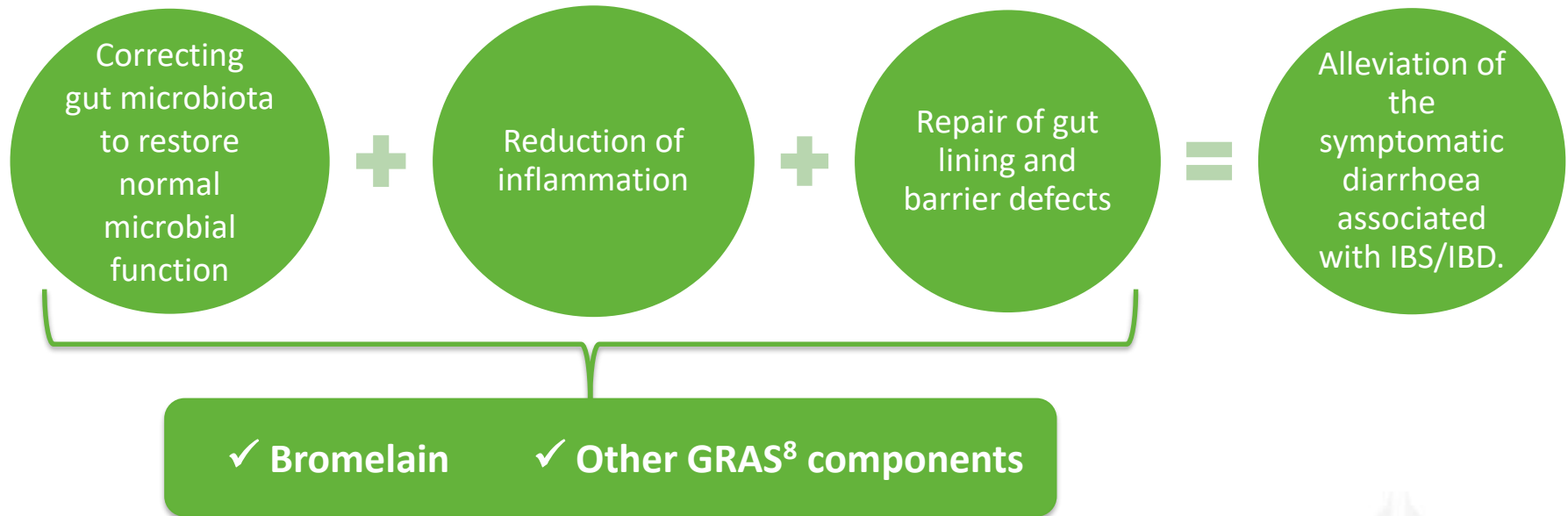
Shared disease characteristics:

Altered microbiome
Impaired intestinal barrier function
Mucosal damage

Gastrointestinal ReProgramming (GaRP) Dietary Supplement

How does it work?

GaRP is a microbiome-targeted dietary supplement aimed at:

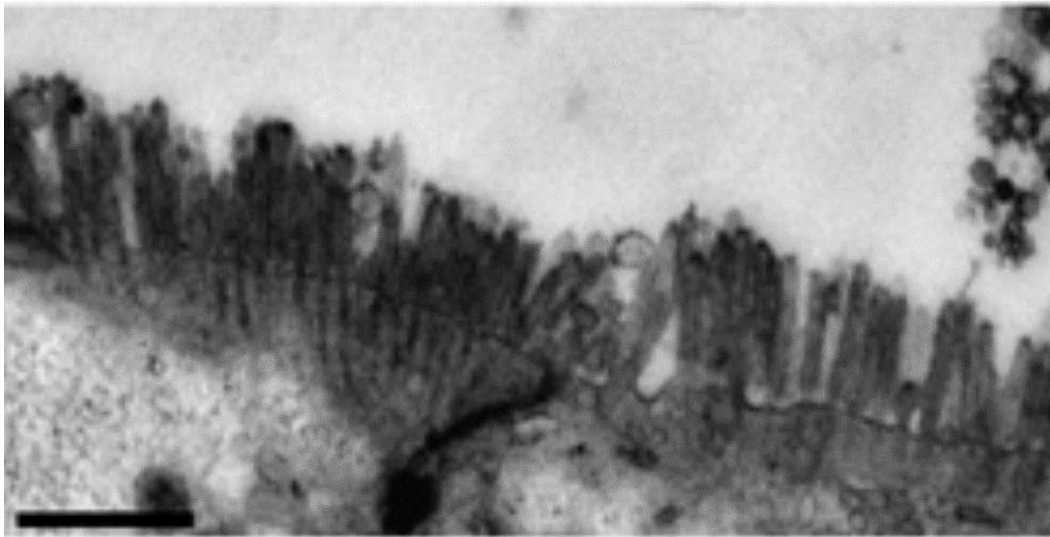


GaRP could be used as a sole therapy and as an adjunct therapy in combination with current IBD and IBS prescription medications.

Scientifically Proven

Successful Proof of Concept Studies

- Potential breakthrough dietary product
- Anatará's proprietary GaRP formulation was⁹ efficacious and:
 - Reduced production of pro-inflammatory proteins by gut and inflammatory cells by >85%;



Reproduced from Gut 2010;59:1331e1339. doi:10.1136/gut.2009.195370

- Reduced the attachment and invasion of IBD and IBS pro-inflammatory bacteria into healthy gut cells by >95%;
- Protected and maintained gut integrity.



Dual targeted product combining bromelain and other GRAS components



Small Intestine

Colon

Small Intestine targeted components

- prevent attachment of pro-inflammatory bacteria
- restore gut microbiota
- reduce inflammation

Colon targeted components

- restore gut microbiota
- reduce inflammation
- mucosa regeneration
- restore gut integrity
- reduce diarrhoea

Advantages of Dietary Supplements*

The advantages of a dietary supplement regulatory strategy are:

Fewer or lower regulatory requirements than pharmaceuticals¹⁰

->Lower development cost

->Lower development risk

->Faster time to market

Rapid market penetration¹¹

Public and health care professionals understand the term 'dietary supplement'

Marketing can be aimed at both the public and the professional



* Dietary Supplement are foods intended to supplement the normal diet which are concentrated sources of one or more nutrients, like vitamins, proteins, mineral complexes, herb or other botanical, amino acid or enzymes.

Clear Path to Commercialisation

	2017 H1	2017 H2	2018 H1	2018 H2	2019 H1	2019 H2	2020 H1	2020 H2
Confirmed GRAS status for components with FDA	✓							
Established collaboration with University of Liverpool (UK)		✓						
Completed product development plan		✓						
Patent Application filed				✓				
Commercial feasibility			✓					
Manufacturing – sourced suppliers		✓						
Proof of concept				✓				
Animal study (IBD)						F*		
Human observational study (IBS)						S*		
Partnering discussions								F*

* Finish; Start



Anatara Lifesciences Ltd (ASX:ANR) Summary

- Innovative, evidence-based products, backed by scientific and clinical studies for gastrointestinal health
- GaRP dietary supplement seeks to target IBS and IBD patients
 - Patentable multi-component, dual-targeted formulation
 - Delivers the components where they can be most effective
- Board and Management have significant deal experience
- 18 – 24 months to partnering milestone



Steven Lydeamore, CEO
slydeamore@anataralifesciences.com

www.anataralifesciences.com



@AnataraANR

