Investor presentation and strategy update

BRISBANE, 18th July 2018: Anatara Lifesciences (ASX:ANR) is pleased to release its latest presentation and strategy update that will be delivered to institutional investors this week.

In outlining its future strategy, Anatara has provided an update on its efforts to develop its product pipeline, extending from its core application to control diarrhoea in pigs, to the management of human gastrointestinal disorders such as Irritable Bowel Syndrome and Inflammatory Bowel Disease.

The presentation also summarises:

• The exclusive global agreement with Zoetis for the worldwide development, manufacturing, distribution and marketing of Detach in livestock and horses
• Anatara’s human gastrointestinal program which has been reviewed and refined, resulting in a strong lead product for restoring and maintaining gut health
• Enhancement of Anatara’s Intellectual Property position
• Confirmation that the Company has funding in place to progress the first human product through to anticipated partnering

A copy of the investor presentation follows. A letter to shareholders has also been lodged today which provides further context to Anatara’s strategy moving forward.

For more information please contact:

<table>
<thead>
<tr>
<th>Investor inquiries</th>
<th>Media inquiries</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr Jay Hetzel, Chairman Anatara Lifesciences +61 (0) 7 3394 8202 <a href="mailto:jhetzel@anatara.com">jhetzel@anatara.com</a></td>
<td>Jane Lowe IR Department +61 (0) 411 117 774 <a href="mailto:jane.lowe@irdepartment.com.au">jane.lowe@irdepartment.com.au</a></td>
</tr>
</tbody>
</table>

About Anatara Lifesciences
Anatara Lifesciences (ASX: ANR) develops and aims to partner non-antibiotic, oral products for gastrointestinal diseases in animals and humans where there is significant unmet need and large market opportunity. In May 2018, Anatara granted an exclusive licence to the leading global animal health company, Zoetis Inc., for the worldwide development, manufacturing, distribution and marketing of its lead product Detach as a non-antibiotic approach to aid in the control of diarrhoeal disease (known as scour) in livestock and in horses. Anatara is now focused on developing its human product pipeline for gastrointestinal health applications. For more information, please visit www.anataralifesciences.com.
Disclaimer

The information in this presentation does not constitute personal investment advice. The presentation is not intended to be comprehensive or provide all information required by investors to make an informed decision on any investment in Anatara Lifesciences Ltd, ACN 145 239 872 (Company). In preparing this presentation, the Company did not take into account the investment objectives, financial situation and particular needs of any particular investor.

Further advice should be obtained from a professional investment adviser before taking any action on any information dealt with in the presentation. Those acting upon any information without advice do so entirely at their own risk.

Whilst this presentation is based on information from sources which are considered reliable, no representation or warranty, express or implied, is made or given by or on behalf of the Company, any of its directors, or any other person about the accuracy, completeness or fairness of the information or opinions contained in this presentation. No responsibility or liability is accepted by any of them for that information or those opinions or for any errors, omissions, misstatements (negligent or otherwise) or for any communication written or otherwise, contained or referred to in this presentation.

Neither the Company nor any of its directors, officers, employees, advisers, associated persons or subsidiaries are liable for any direct, indirect or consequential loss or damage suffered by any person as a result of relying upon any statement in this presentation or any document supplied with this presentation, or by any future communications in connection with those documents and all of those losses and damages are expressly disclaimed.

Any opinions expressed reflect the Company’s position at the date of this presentation and are subject to change.
Anatara Corporate History

**PRE IPO**
- Detach developed
- Discovery of active components
- Proof of concept laboratory work
- Seed Investment

**2014**
- ASX Listing
  - First commercial scale up of Detach manufacture

**2015**
- Positive Field Trial results

**2016**
- Submit Detach dossier to APVMA
- Zoetis Option
- Expand Management Team
- Melbourne lab established
- Target animal safety (TAS) study complete

**2017**
- Positive Health Canada VDD meeting
- Initiation of GaRP product development program
- FDA confirmation of GRAS for bromelain and its components

**2018**
- Global License with Zoetis for Detach for livestock and horses
Presentation Highlights

- Signed exclusive global agreement with Zoetis for the worldwide development, manufacturing, distribution and marketing of Detach in livestock and horses
- Human gastrointestinal program reviewed and refined, resulting in strong initial candidate for restoring and maintaining gut health
- Enhanced IP position
- Funding in place to progress the first human product through to anticipated partnering in 2020
- Current cash $8.8 million.*

Anatara develops and aims to partner non-antibiotic, oral products for gastrointestinal disease in humans where there is significant unmet need and large market opportunity

* Appendix 4C - 31 March 2018
Animal Health

- A natural, safe, non-antibiotic product that aids in the control of diarrhea (known as scour) in livestock
- Anatara has 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%
From animals to humans
Anatara’s Technology

• **Bromelain** is a natural product extracted from pineapple stems.

• Based on decades of research by world-class academic and commercial partners which found that bromelain contains a number of proteases with distinct biological activities, including
  • Anti-attachment
  • Anti-secretory
  • Anti-inflammatory

Potential applications in humans include gastrointestinal (GI) diseases that involve inflammation and/or diarrhea

Anatara molecules are extracted from “stems” of the pineapple plant
Potential applications for Anatara’s technology exist in
- childhood diarrhea
- traveller’s diarrhea
- diarrhea associated with gastrointestinal disorders such as IBD and IBS

Following a thorough review of each of these opportunities, the IBD/IBS indication was selected on the basis of:
- Market potential
- Competitive advantage
- Quality of supporting data
- Strength of intellectual property protection
- Speed to market

Anatara has elected to develop a novel product aimed at promoting gut health and managing the symptoms associated with gastrointestinal disorders such as IBD and IBS

Leveraging off large amount of data previously generated
About Inflammatory Bowel Disease (IBD)

- Two forms: Ulcerative Colitis and Crohn’s Disease
- Patients experience abdominal pain and cramping, bloating, blood and mucus in the stool, loss of appetite and persistent diarrhea
- Treatment involves suppressing inflammation with the goal of inducing and maintaining remission
- 30-50% of IBD patients\(^2\) turn to complementary and alternative medicines

IBD is a global disease with accelerating incidence in newly industrialised countries

>5m IBD sufferers worldwide\(^1\)

\(^1\)Crohn’s and Colitis Australia
\(^2\)Gastroenterology 2017: 152:415-429
About Irritable Bowel Syndrome (IBS)

- IBS is a functional disorder. Incomplete knowledge of pathology, therefore the approach is symptom management.

- Symptoms include abdominal pain, bloating and alternating constipation and diarrhea.

- Patients have a poor quality of life and utilise the healthcare system more than other patients.

- ~50% of patients\(^4\) turn to dietary supplements and complementary medicines.

The most commonly diagnosed gastrointestinal condition and a significant health care burden.

---

3. Clinical Gastroenterology and Hepatology 2012: 10, 712-721

\* Nutraceuticals: Global Markets, BCC Research March 2017
Anatara has designed a novel product aimed at restoring and maintaining gut health:

Gastrointestinal Reprogramming Product (GaRP)

For the Management of Gastrointestinal Disorders
Target Gastrointestinal Disorders

Irritable Bowel Syndrome (IBS)

• Low grade inflammation

Inflammatory Bowel Disease (IBD)

• Chronic inflammation

Shared disease characteristics:

- Altered microbiome
- Impaired intestinal barrier function
- Mucosal damage

IBS and IBD are areas of significantly unmet clinical need

Anatara’s GaRP aims to:
- Re-establish the homeostasis of the gut microbiome
- Treat the inflammation
- Repair the mucosal damage

Thereby reduce the associated diarrhea.
The Microbiome and IBD/IBS

Healthy gut microbiome
- Supplies energy and nutrients
- Immune system development
- Defence against pathogens

IBD/IBS gut microbiome
- Less bacteria with anti-inflammatory properties
- More bacteria with pro-inflammatory properties
- Reduction of diversity
- Change in overall bacteria numbers

Healthy gut – increased diversity
Unhealthy gut – lack of diversity
How GaRP works?

GaRP is a microbiome-targeted dietary supplement aimed at:

- Correcting gut microbiota to restore normal microbial function, leading to
- Reduction of inflammation, leading to
- Repair of gut lining and barrier defects, leading to
- Alleviation of the symptomatic diarrhea associated with IBD/IBS.

GaRP will be used as an adjunct to existing treatments.
Dietary Supplements as an adjunct to prescription drugs for the treatment of GI disorders

- GI disorders affect a significant proportion of the population.
- ~50% of patients seek additional relief of their symptoms through adjunct therapies.
- Increased education and more detailed evaluation of dietary supplements has led to healthcare providers working with patients to develop individualised programs which include dietary supplements in the symptom management for GI disorders.
GaRP – built on strong scientific foundations
About bromelain

Generally Recognised as Safe (GRAS)
Bromelain is allowed in food as a food additive and it has been affirmed as Generally Recognised as safe (GRAS) allowing it to be considered as a food.

Unlimited Acceptable Daily Intake (ADI)
Bromelain has been used for decades in as an anti-inflammatory and anti-cancer complementary medicine in the USA and Europe. This has established it to be safe with an unlimited Acceptable Daily Intake.

But formal clinical data has been lacking
A lot of anecdotal evidence regarding its clinical efficacy but the bromelain is poorly characterised and therefore has variable activity resulting in no definitive clinical data.

Until now...
Anatara has developed a bromelain fingerprint where different biological activities are associated with specific parts of the bromelain fingerprint.

This will be utilised in our human therapeutic programs.
Ileum 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 diarrhea

Dual targeted product combining bromelain and other GRAS components*

*I Provisional patent application filed August 2017*
GaRP Development Plan– next steps

- **Proof of concept studies** are well advanced to demonstrate that GaRP can:
  - Remove bacteria with pro-inflammatory properties
  - Reduce inflammation by reducing the release of proinflammatory cytokines
  - Reduce serotonin-induced diarrhea (important for IBS)
  - Regenerate the integrity of the gastrointestinal tract
  - Stimulate mucosal healing

- **Formulation Development** – coated, dual-release preparation

- **Dose Optimisation & Efficacy Testing** – in pigs (preclinical development in an adult pig model reduces the risk of formulation failure in a human)
Regulatory advantages of dietary supplements*

The advantages of a dietary supplement regulatory strategy are:

1. Less expensive and less risky pathway to market
2. Rapid market entry
3. Public and healthcare professionals understand the term ‘dietary supplement’
4. Marketing can be aimed at both the public and the professional.

* Dietary Supplements 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.
## A clear path to commercialisation

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Confirmed GRAS status for components with FDA</td>
<td>✔️</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Established collaboration with University of Liverpool (UK)</td>
<td></td>
<td>✔️</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Completed product development plan</td>
<td>✔️</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Patent Application filed</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Commercial feasibility</td>
<td></td>
<td>✔️</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Manufacturing – sourced suppliers</td>
<td>✔️</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Proof of concept</td>
<td></td>
<td></td>
<td>✔️</td>
<td>✔️</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Efficacy studies</td>
<td></td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>Partnering discussions</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
</tr>
</tbody>
</table>

*For personal use only*
Investment Summary

- **GaRP** a large addressable and growing market and rapid development path
- **Anatara** has the funds necessary to progress GaRP through to a partnering deal in 2020
- **Anatara** has initiated discussions with sector specialists to maximise the commercial potential of a GaRP partnering deal
- **Anatara** will further strengthen the Board & Management
- **Anatara** aims to broaden its GI pipeline through collaborations and possible in-licensing opportunities
Thank you

Dr Jay Hetzel, Chairman
jhetzel@anatara.com

Dr Tracie Ramsdale, CEO & Director
tramsdale@anatara.com

Dr Tracey Brown, Chief Development Officer
tbrown@anatara.com

www.anataralifesciences.com
@AnataraANR