

**ASX Announcement** 

16 September 2019

#### Holista Presents at the pre-event to 2019 China Glycemic Index International Conference

**PERTH/KUALA LUMPUR, 16 SEPTEMBER 2019** – Australian-listed Holista CollTech Limited (ASX:HCT, **Holista**) is pleased to announcement that Managing Director and CEO, Dato' Dr Rajen Manicka, was invited to present at the pre-event to the 2019 China Glycemic Index International Conference. The Conference is to be held on 17th September 2019 in Beijing at the China National Research Institute of Food and Fermentation Industries Co., Ltd. The event is a collaboration with Australia's Glycemic Index Foundation.

The conference will bring together all the health experts around the world and representatives from the food industry in China to explore and discuss opportunities and strengths related to low GI food manufacturing.

Dr Manicka will present a lecture on the research and development of low GI bakery products on the afternoon of September 16th. The meeting is a pre-event and the speakers include Gemma Walton of the University of Reading in the UK and Academician Robert Gilbert of the University of Queensland, Australia.

Attached to this announcement is the lecture presentation. Dr Manicka discusses how Holista is developing and commercialising low-GI products.

END

#### For further information, please contact:

#### **Corporate Affairs & Business Opportunities**

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#### About Holista Colltech Ltd

Holista CollTech Ltd (**Holista**) is a research-driven biotech company and is the result of the merger of Holista Biotech Sdn Bhd and CollTech Australia Ltd. Headquartered in Perth with extensive operations in Malaysia, Holista is dedicated to delivering first-class natural ingredients and wellness products and leads in research on herbs and food ingredients.

Holista, listed on the Australia Securities Exchange, researches, develops, manufactures and markets "healthstyle" products to address the unmet and growing needs of natural medicine. Holista's suite of ingredients is capable of serving the industry to provide low-GI baked products, low sodium salt, low fat fried foods and low calories sugar without compromise in taste, odour and mouth feel. It is the only company to produce sheep (ovine) collagen using patented extraction methods.

### Research And Development Of Low GI Bakery Products

Rajen Manicka

Holista Colltech Limited

2019 China Glycemic Index International Conference

### **About Holista Colltech**

- Australian company listed in the Australian Stock Exchange
- 3 areas of focus
  - dietary supplements
  - food ingredients
  - sheep collagen

## **Core Competence In Glycemic Index**

- Patented low Glycemic Index botanical blend
- Proprietary knowhow on how to prepare the botanicals optimally
- Experience in formulation and sensory adaptation
- Communication of low GI message



## Any Diet That Works Is Low GI Diet

- Low carb
- High protein
- High fat
- Paleo
- Keto
- Atkins
- The Zone
- South Beach Diet





# Why They Work?

- Reduction of the carbohydrate
- Reduction of refined carbohydrates
  - Sugar
  - Starch



## 3 Things We Seek To Address

- Excess carbs = obesity and diabetes
- Foods must have same taste profile and "look and feel"
- The resulting food products must be affordable

Key Component Against Diabetes And Obesity Without Taste Compromise With Cost Competitiveness

#### **Economic Drivers**

- Educated and Wealthy consumers want a choice
- Given the choice, consumers go for "better for you" in terms of health as seen by the growth of segments like 'organic' and 'clean label'
- Customers avoid foods that "may not be good for you" like
  - Genetically modified foods (GMO)
  - chemical (synthetic) based foods

### FACT: Health & Wellness Products Growing Faster

- Already account for 12% of all Consumer Packaged Goods (CPG)
- 5 categories
  - fortified
  - better for you
  - naturally healthy
  - free form
  - organic



## Clean Label

- All product are "clean label"
- Mechanical and temperature processing
- No chemicals
- Sourcing transparent
- Can be "certified organic"



## Combining "Organic" and "Low GI"

- Organic "clean"
- Low GI "healthy"
- New category "clean and healthy"



### Chinese Baked Goods Market

- 2<sup>nd</sup> largest in the world USD57 billion (in 2018) and growing 6% (2013 2018) : United States is at USD80 billion and growing at 1%
- Chinese consumers are more health conscious 75% willing to pay more for "healthy" products
- Chinese government growing focus on healthy nutrition
- In 2015 21% of new Food and Beverages launched in China have "natural" claim
- "No/ Low/ Less sugar sugar" is the 2<sup>nd</sup> largest health claim by this segment

Source: Mckinsey/MATRADE Report for Holista 2018

### Challenges Of The Glycemic Index

- Difficult concept to communicate versus the "low fat" message
- Difficult to test and measure
- Validation

#### Challenges Of Low Gl Product Reformulation

- Wheat is one of the cheapest commodity
- Refined wheat is taste neutral
- Wheat is good "mouth feel"
- Refined wheat is color neutral

## Holista's Low GI Capability

- Fully tested low GI
  - white bread
  - noodle

Indian flat breadmuffin

- cracker
- spaghetti

- pasta

- cookie

• Pending: ramen, pizza, bubble tea pearls and pastry

### Australian Patent No: 2009334010

Product to control glycemic response of carbohydrate foods

- Patent granted in Australia, Singapore, India, Malaysia, Europe and Canada
- Pending in China
- Tested and proven in University of Oxford, University of Sydney, GI Labs in Canada and Tumasek Polytechnic
- Working with Glycemic Index Foundation (Australia) and Diabetes Canada
- In collaboration discussion with University of Mississippi and the National Center For Natural Products Research (NCNPR)

### Patent Claim

"The use of botanicals to disrupt and delay the digestion of starches from wheat, rice and corn. In the process, this delays the rise of blood sugar and all the unhealthy metabolic consequences"



## How We Modify The Carbs

- Delay transit in the gut
- Delay digestion and absorption
- Making it difficult to digestion of amylose bonds in wheat based product

## **Proprietary Technologies**

- All products are "clean label"
- Technology to derive the fenegreek fiber
- Processing of the lentils
- The specific use of okra mucilage and seed content
- Taste masking

## Early Successes

- Low GI noodles Canada, China, Korea
- Low pasta United States, Canada
- Low GI Spaghetti United States, Canada
- Low GI Linguini United States, Canada

## A Low GI Breakthrough

Nutrition	1
Facts	

Serving Size 2 oz (57g) Servings Per Container 7 Calories 210 Calories from Fat 15

Amount/Serving	% DV*	Amount/Serving	% DV*	*Percent Daily Values (DV) are based on a				
Total Fat 1.5g	2%	Total Carbohydrate 41g	14%	2,000 calore higher or low	2,000 calorie diet. Your Daily Values may be higher or lower depending on your calorie ner			
Saturated Fat Og	0%	Dietary Fiber 3g	12%	-	Calories:	2,000	2,500	
Trans Fat Og		Sugars Og	_	Total Fat Sat Fat	Lesstan	65g 20g	80g 25g	
Cholesterol 10mg	3%	Protein 7g	14%	Cholesterol	Less than	300mg	300mg	
Sodium 80mg	3%			Sodium Total Carbohy	Less than drate	2,400mg 300g	2,400mg 375g	
Vitamin A 0% • Vitamin C 0% • Calcium 0% • Iron 15%			Dietary Fiber Protein		25g 50g	30g 65g		



## The Way Forward

- Collaboration
- Better consumer education
- New wearable technology to track blood sugar and blood lipids