

# BBSRC NZ-UK Algae Research Meeting

14TH-17TH AUGUST 2017

CAWTHRON INSTITUTE, NELSON, NEW ZEALAND

## MONDAY 14TH AUGUST 2017

9:00	Arrival and sign-in at Reception, Cawthron Institute (98 Halifax St)	
9:15	Welcome and Mihi Whakatau followed by kai (food/coffee)	Rev Harvey Ruru, Cawthron Kaumatua Charles Eason, CE Cawthron Institute and the Cawthron Waiata group
<b>Session One: Overview and Introduction</b>		
9:45	Meeting Objectives (Milton Room)	Mike Packer: Saul Purton
9:50	Introduction: Cawthron Institute overview	Robert Matheson, Cawthron Institute, Research Strategy Manager
10:30	Introduction: Algae for production of bioactives, high value chemicals and functional food ingredients	Saul Purton
10:45	Introduction: The evolution of algal biotechnology capability at Cawthron	Jonathan Puddick
11:00	Introduction: Development of sustainable technologies for algal biomass production	Michelle Stanley
<b>Session Two: Molecular Genetics and Tools</b>		
11:00	Using molecular networking for algal comparative metabolomics	Katherine Duncan
11:30	Photosystem II from the cyanobacterium <i>Synechocystis</i> sp. PCC 6803	Julian Eaton-Rye
12:00	The development of genetic engineering methods for various algal and cyanobacterial species	Saul Purton
12:30	Extracting value from the <i>Dunaliella</i> microalgal value chain	Patricia Harvey
13:00	Lunch and Networking	Milton Room
<b>Session Three: Algal Bioactives and High Value Products</b>		
14:00	Fine tuning algal metabolism for lipid accumulation	Donato Romanazzi
14:30	Biosurfactants & Bioemulsifiers: market research - British High Commission R&D delegation case report	Pattanathu Rahman
15:00	Breakout: Tour of Cawthron town labs and photobioreactors	Mike Packer
15:30	Coffee break	ETW Café/Milton Room
15:45	Macroalgal bioremediation and bioproducts	Rebecca Lawton
16:15	The Nottingham Microalgae Biorefinery	Steve Skill
16:45	Anti-inflammatory effects of extracts from marine algae	Jonathan Puddick
17:15-17:20	Round up of the day and close	Mike Packer: Saul Purton
19:00	Delegate dinner	Cod and Lobster Brasserie (300 Trafalgar)

## TUESDAY 15TH AUGUST 2017

9:00	Welcome back and objectives (Milton Room)	Mike Packer: Saul Purton
<b>Session Four: Biomass Production</b>		
9:15	Varicon Aqua – More than just a photobioreactor supplier	Marco Lizzul
9:45	Cultivation of <i>Dunaliella salina</i> for a Microalgal Biorefinery	Patricia Harvey
10:15	Coffee break	Milton Room
10:45	Maximizing productivity and reducing environmental impacts of full-scale algal production through optimization of open pond depth and hydraulic retention time	Benoit Guieysse
11:15	Engineering metabolic reactions across multiple membranes	Payam Mehrshahi
11:45	Lunch and Networking	Milton Room
<b>Session Five: Value Chain and New Technologies</b>		
12:45	Guest lecture - Algal biotechnology at a crossroad: Emerging opportunities and New Technologies?	Min Park Sung
13:15	Bottlenecks beyond biomass production and harvesting	Gill Malin
13:45	N <sub>2</sub> O emissions from algae: Pathway and Significance	Maxence Plouviez
14:15	Eliciting cryptic gene clusters to harnessing the full potential of microalgae	Katherine Duncan
14:45	Innovative technologies for the early detection of algae in the environment	Lincoln McKenzie
15:45	Coffee break	Milton Room
16:00	Integrating algal biotechnology into an economical energy conversion and storage context	Siobhan Bradley
16:30	Algae-powered fuel cells: Fundamental science and applied biotechnology	Mike Packer
<b>Session Six: Discussions</b>		
17:00	Discussion: Enabling accurate and efficient risk assessments, risk management, and cost benefit trade-offs	Led by Dr Pattanathu Rahman
17:30	Discussion: Funding Landscape UK-NZ for collaborative projects	TBC (UK) - Robert Matheson (NZ)
18:00	Drinks and nibbles	Milton Room

**Logistics Contact: Kerry South (NZ Event Coordinator) +64 21 024 77554**  
**Programme: Mike Packer (Cawthron Institute) +64 (0)3 548 2319 ext 233**



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## WEDNESDAY 16TH AUGUST 2017

Session Seven: Industry day		
9:00	Pick-up at Trailways (66 Trafalgar St)	Nelson Coachlines
9:30	Tour of Cawthron Aquaculture Park (139 Glen Rd)	Mike Packer
12:30	Lunch and Networking - a quaint chapel, lovingly transformed into a charming cafe and restaurant. Delectable, Mediterranean-inspired dishes using, locally-grown, organic ingredients, and serving a wide range of New Zealand and Spanish wines.	La Capilla (107 Appleby Hwy)
13:45	Tour of Pharmalink Extracts Limited (379 Appleby Hwy)	Charles Hodgson/Grant Wilson
16:00	Seifrieds Winery - wine tasting	Winery
18:00	Dinner	To be advised

## THURSDAY 17TH AUGUST 2017

UK Networking & Tour Day		
7:45	Pick-up at Trailways (66 Trafalgar St)	Nelson Coachlines
9:00	Arrive in Kaiteriteri	
9:20	Cruise departs: Cruise and walk the glorious Abel Tasman Coast Track, discovering golden sand beaches, lush native forest and panoramic coastal vistas. A packed lunch will be provided. No guide has been arranged but the leader on cruise will assist you with all the details.	Wilson Able Tasman
16:15	Trip returns to Kaiteriteri, van loaded to return to Nelson	Nelson Coachlines
17:30	Arrive in Nelson	

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