



2024 ANNUAL MEETING PROGRAM

All program events will be held on campus at University College Cork in the Western Gateway Building (WGB) in the main auditorium (WGBG05) unless otherwise noted below. *Room numbers* are indicated in the left panel.

Abbreviations: IAC=Industry Advisory Committee (representatives of member companies); SFA=Students and Fellows Association

TUESDAY JULY 9

Closed meeting for invited guests and industry members

07:30 - 13:00 Registration desk open

Pre-meeting program

08:30 - 11:30: Open only to IAC, SFA and Board of Directors

08:30 - 09:15 IAC and Board of Directors meeting

09:15 - 10:45 IAC/SFA Innovation workshops (separate sign-up required).

1: Innovation in the gut-brain axis and potential role of biotics
WGBG02 Mariya Petrova, Winclove Probiotics

2: Best practice in designing studies with biotics
WGBG15 Shalome Bassett, Fonterra

3: Novel techniques in biotic research
WGBG04 Cathy Lordan, Teagasc and APC Microbiome Ireland

4: Innovation outside the gut (and environmental applications) for biotics
WGBG18 Brendan Daisley, University of Guelph

10:45 - 11:30 Networking break
Atrium Board & SFA
Cafe IAC

11:30 - 12:30 Industry forum. **From lab to market: Scientific requirements for new biotic substances in the changing regulatory landscape**
Bruno Pot, Yakult Europe BV, Vrije Universiteit Brussels, Belgium
Diane Hoffmann, University of Maryland, USA
Sarah Lebeer, University of Antwerp, Belgium
Alison Winger, Novonesis, Ireland

12:30 - 13:15 Lunch break

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13:15 - 17:30	Discussion groups (concurrent sessions) Open only to invited experts and IAC.
WGBG02	1: Characterization and quantification of postbiotics Gabriel Vinderola, National University of Litoral, Argentina and Seppo Salminen, University of Turku, Finland
WGBG04	2: How can we establish causal mediation in microbiome intervention studies? Daniel Tancredi, University of California, Davis, USA and Kristin Verbeke, Katholieke Universiteit Leuven, Belgium
WGBG16	3: The microbiome and neurodegenerative and neurodevelopmental disorders Eamonn Quigley, The Methodist Hospital and Weill Cornell School of Medicine, USA and Hania Szajewska, The Medical University of Warsaw, Poland
WGBG15	4: Evidence for candidate prebiotics, including polyphenols, resistant starch, and animal-derived substances Karen Scott, University of Aberdeen, UK and Kelly Swanson, University of Illinois at Urbana-Champaign, USA
WGBG18	5: How does digestion affect prebiotic and probiotic function? Anisha Wijeyesekera, University of Reading, UK and Maria Marco, University of California, Davis, USA
WGBG17	6: Next-generation probiotics by implementation of genetic engineering and other tools Sarah Lebeer, University of Antwerp, Belgium and Colin Hill, University College Cork, Ireland
17:30 - 20:00	Welcome reception. <i>Aula Maxima, University College Cork</i> In association with APC Microbiome Ireland.
<i>Aula Maxima</i>	Includes Welcome to University College Cork from Paul Ross, APC Microbiome Ireland, 18:15 - 18:30. Social event with light refreshments. Open registration delegates are welcome to attend.

WEDNESDAY JULY 10

Open registration meeting

07:30 - 08:30	Registration desk open
08:30 - 08:35	Welcome
08:35 - 09:05	Health-associations in soil-based intervention trials – a probiotic and postbiotic perspective Aki Sinkkonen, University of Helsinki, Finland
09:05 - 09:35	Microbiota-human mucin interactions: Identification of key enzymes to prevent mucus barrier dysfunction. Ana Luis, University of Gothenburg, Sweden

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09:35 - 09:55	The Sanders Award for Advancing Biotic Science 2024 Lecture: Yogurito: Challenges and achievements of a probiotic social assistance program Maria Pía Taranto, National Scientific and Technical Research Council (CERELA-CONICET), Argentina
09:55 - 10:25	Break
10:25 - 10:55	Mother-baby transmission of bifidobacterial strains: insights and prospects, Douwe van Sinderen, University College Cork, Ireland
10:55 - 12:25	Special Session: Probiotics and premature infants - Perspectives and paths forward Geoffrey Preidis, Baylor College of Medicine and Texas Children's Hospital, USA Mark Underwood, Providence Sacred Heart Medical Center and Children's Hospital, USA Hania Szajewska, The Medical University of Warsaw, Poland Janet Berrington, Newcastle Upon Tyne Hospitals NHS Foundation Trust, UK Marie Spruce, NEC UK Charity, UK Diane Hoffmann, University of Maryland, USA Greg Leyer, Biotic Solutions Consulting, USA
12:25 - 13:25	Lunch break
13:25 - 14:50	Poster viewing and SFA poster judging. Authors will be present for all posters. <i>Atrium, WGBG14</i>
14:50 - 15:20	Developing models for the human small intestinal microbiota KC Huang, Stanford University, California, USA
15:20 - 15:50	The environmental implications of biotic use in agricultural animals Steven Ricke, University of Wisconsin-Madison, USA
15:50 - 16:10	The Glenn Gibson Early Career Researcher Award 2024 Lecture: Eat your (fiber-rich, fermentable) veg? A translational take on short-chain fatty acids as microbiota-gut-brain axis mediators in humans Boushra Dalile, Katholieke Universiteit Leuven, Belgium
16:10 - 16:30	The Gregor Reid Award for Outstanding Scholars in Developing Nations 2024 Lecture: Peptidome insights: Mining bioactive peptides in fermented dairy and non-dairy products in the Indian Himalayan Region Rounak Chourasia, National Agri-food Biotechnology Institute, India
16:30 - 17:30	Late Breaking News Gregor Reid, University of Western Ontario, Canada
17:30 - 18:30	Break
18:30 - 22:00	Gala social event, Cork City Gaol, Convent Avenue, Sunday's Well, Cork City <i>Cork City Gaol</i> Tickets available for purchase for open registration delegates.

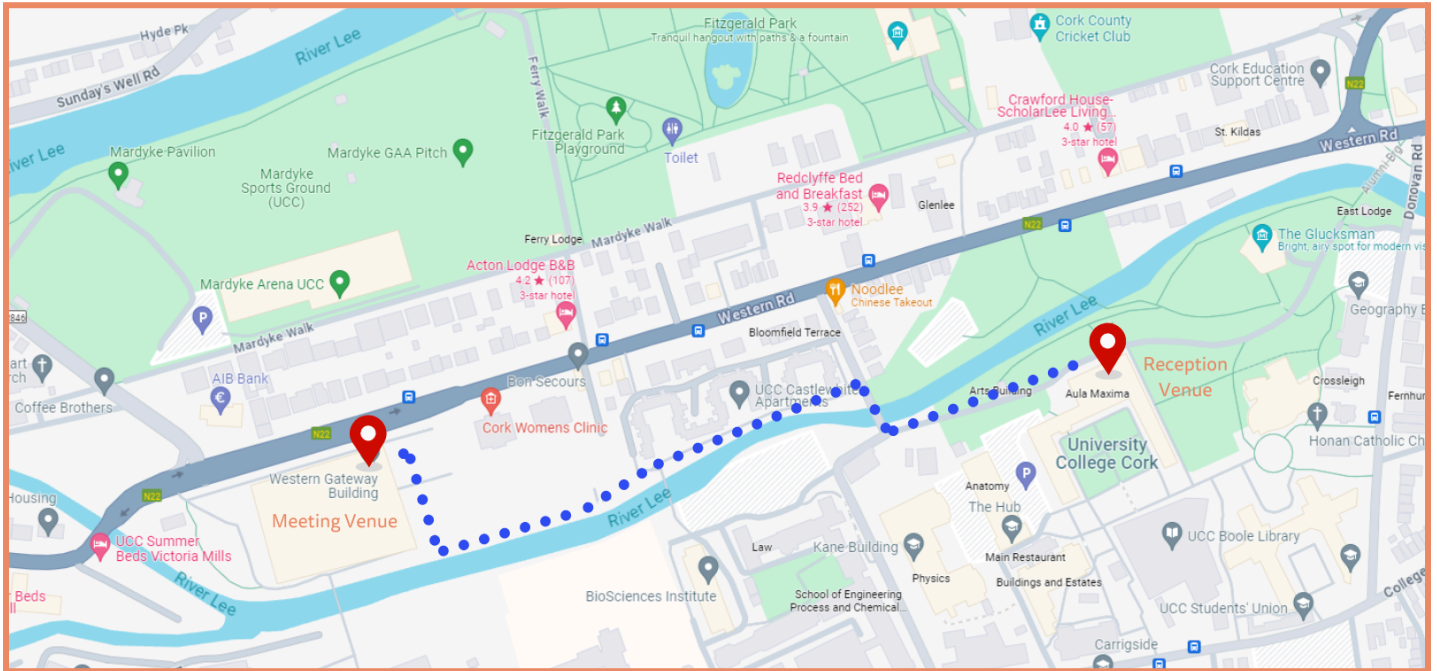
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THURSDAY JULY 11

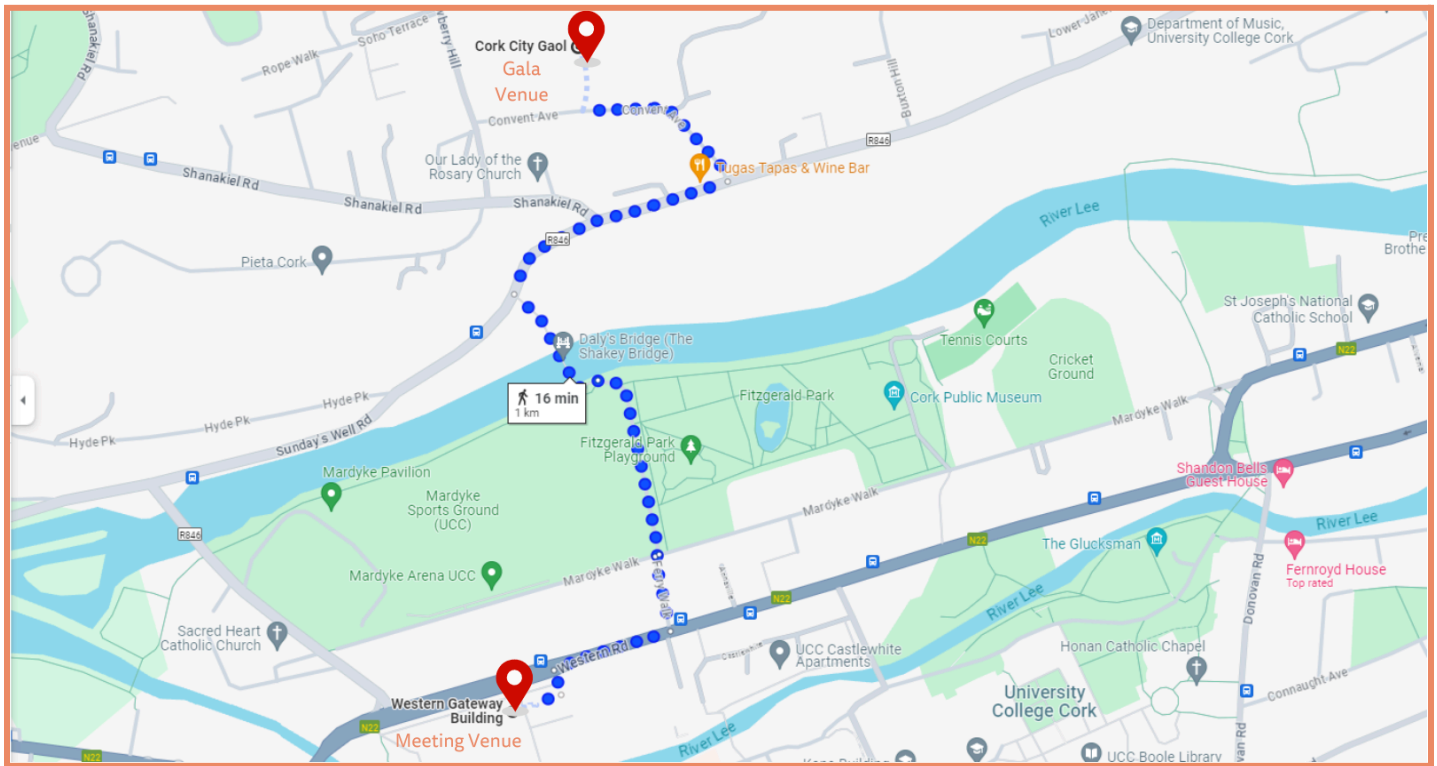
Open registration meeting

- 09:00 - 09:15 **IAC highlight:** Human gut-associated *Bifidobacterium* species salvage exogenous indole, a uremic toxin precursor, to synthesize indole-3-lactic acid via tryptophan
Toshitaka Odamaki, Morinaga Milk Industry Co Ltd, Japan
- 09:15 - 09:30 **IAC highlight:** An intestinal screening platform versus a clinical crossover intervention study: comparative evaluation with a dietary fiber mixture
Frank Schuren, Netherlands Organization for Applied Scientific research (TNO), the Netherlands
- 09:30 - 09:45 **SFA highlight:** A multi-faceted exploration of lactobacillaceae-derived vitamin B2 in the vagina
Caroline Dricot, University of Antwerp, Belgium
- 09:45 - 10:00 **SFA highlight:** Impact of probiotic yoghurt on gut microbiome dynamics: insights from in-vitro fermentation and metabolic profiling
Choshani Dalukdeniya Arachchilage, Sabaragamuwa University of Sri Lanka
- 10:00 - 10:05 **Announcement of poster award winners**
- 10:05 - 10:35 **Lactic acid bacteria and the gut-skin axis - a paradigm with therapeutic implications**
Catherine O'Neill, University of Manchester, UK
- 10:35 - 11:00 Break
- 11:00 - 11:30 **Microbiome-gut-brain axis in health and disease - parsing causality**
John Cryan, University College Cork, Ireland
- 11:30 - 13:00 **Summary reports from Discussion groups**
SFA: **Students and Fellows Association report.** Cathy Lordan, Teagasc, Ireland
DG1: **Characterization and quantification of postbiotics**
DG2: **How can we establish causal mediation in microbiome intervention studies?**
DG3: **The microbiome and neurodegenerative and neurodevelopmental disorders**
DG4: **Evidence for candidate prebiotics, including polyphenols, resistant starch, and animal-derived substances**
DG5: **How does digestion affect prebiotic and probiotic function?**
DG6: **Next-generation probiotics by implementation of genetic engineering and other tools**
- 13:00 **Close**

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Western Gateway Building to Aula Maxima - Reception venue



Western Gateway Building to Cork City Gaol - Gala venue