



## **2008 ISAPP Meeting Report November 9-11, 2008 London Ontario Canada**

The International Scientific Association for Probiotics and Prebiotics (ISAPP) convened its 6th meeting November 9-11, 2008 at the Spencer Ivey Conference Center, London Ontario Canada. Hosted by Dr. Gregor Reid, this by-invitation meeting included 89 participants (30 scientists from our Industry Advisory Committee and 59 invited delegates, including students) from 17 countries. The program began with a plenary session with lectures on: the intestinal immune system and interactions with bacteria, delivered by Dirk Haller Ph.D. from the Technical University of Munich; safety of probiotics for use in healthy infants, delivered by Cathy Hammerman MD from the Department of Neonatology, Shaare Zedek Medical Center, Jerusalem, Israel; an update on the human microbiome project, by James Versalovic MD, Ph.D. and Michael Hsieh M.D., Ph.D., Texas Children's Hospital, Baylor College of Medicine; modulation of gut microbiota by prebiotics, by Nathalie Delzenne Ph.D. Université Catholique de Louvain; and probiotics and the media, by Gregor Reid Ph.D., University of Western Ontario, Canada. ISAPP was also fortunate to have participants from the US and Canadian regulatory agencies, who provided lectures followed by a round table discussion on regulatory hurdles on clinical research with probiotics in the USA.

The Late Breaking News session was crammed with tantalizing lectures on emerging issues in probiotics and prebiotics. A guest dinner speaker, Amber MacArthur, addressed "The Do's and Don'ts of Social Media and Web 2.0," which provided insights into enhancing communication using cutting-edge web tools.

All day on day 2 of the meeting, break-out discussion groups were convened on the following topics:

- How do we know if a probiotic is safe for humans?
- How do we know if a prebiotic works?
- Where can probiotics or synbiotics make the biggest human health impact?
- Teaching, engaging and learning from the media.

A wrap-up session with reports from each group was held the next morning.

Meetings of the Board of Directors and the Industry Advisory Committee were also held during this conference. For the first time, the Industry Advisory Committee met separately from the ISAPP Board of Directors to discuss issues of importance to the general field of probiotics and prebiotics and to brainstorm opportunities for ISAPP to facilitate the science and communication of probiotics and prebiotics. This meeting was convened by Dr. Elaine Vaughan who serves as the industry representative to the ISAPP Board.

ISAPP Board of Directors meets with the 2008 Industry Advisory Committee (top) and on its own (below, left to right: Sanders, Reid, Versalovic, Scott, Klaenhammer, Gibson, Delzenne and Guarner).



Audience attends Plenary Lecture





Plenary Lecture session introduced by ISAPP President, Gregor Reid, followed by speakers Nathalie Delzenne, Dirk Haller, Cathy Hammerman, Jim Heimbach and Michael Hseih. Round Table discussion participants including ??? (Health Canada), Cara Fiore (FDA-CBER), Dan Levy (FDA-CFSAN) and Linda Duffy (NCCAM)

Gregor Reid in traditional Scottish dress introduces dinner speaker



Discussion Group 4 Participants

Late Breaking News Session speakers: Dan Merenstein, Bob Rastall, Louis Akkermans, Karen Scott and Lothar Steidler



Wrap-up Session speakers: Kieran Tuohey, Todd Klaenhammer, Mary Ellen Sanders





**6<sup>th</sup> Meeting of the  
International Scientific Association for Probiotics and Prebiotics  
London Ontario Canada  
Spencer Ivey Center (spencerconferencecentre.dolce.com)  
November 9-11, 2008**

<b>Time</b>	<b>Activity</b>	<b>Location</b>
<b>Sunday, November 9</b>		
7:00 AM – 1:30 PM	Registration	
7:00 – 9:00 AM	Breakfast	Ashers
8:00 – 10:00 AM	ISAPP Board of Directors meeting	Spruce Room
9:30 – 10:30 AM	Industry Advisory Committee meeting	Maple Leaf Foods Classroom
10:30- 12:30 PM	Industry Advisory Committee / Board of Directors Joint Meeting	Maple Leaf Foods Classroom
12:00 – 1:30 PM	Lunch	Ashers
1:30 – 6:00 PM	<b>Plenary Session</b>	Amphitheatre A
	<b>1.30-2.00 Molecular interactions between bacteria, the epithelium, and the mucosal immune system in the intestinal tract.</b> Dirk Haller, Technical University of Munich, Else-Kroener-Fresenius Centre for Experimental Nutritional Medicine, Freising-Weihenstephan, Germany. (host: Gregor Reid)	
	<b>2.00-2.30 Safety of probiotics for use in healthy infants.</b> Cathy Hammerman, MD, Department of Neonatology, Shaare Zedek Medical Center, Jerusalem, Israel. (host: Mary Ellen Sanders)	
	<b>2.30-3.00 The human microbiome project: new opportunities for advancing the science of probiotics.</b> James Versalovic, M.D., Ph.D. & Michael H. Hsieh, M.D., Ph.D., Texas Children's Hospital, Baylor College of Medicine, USA.	
	<b>3.00-3.30 Modulation of gut microbiota by prebiotics: a new approach in the treatment of metabolic syndrome.</b> Nathalie Delzenne, Université Catholique de Louvain, Belgium. (host: Glenn Gibson)	
	<b>3.30-4.00 Break</b>	
	<b>4.00-4.45 Probiotics and the media. Is there any debate? Plus Q&amp;A</b> Gregor Reid, University of Western Ontario, Canada.	
	<b>4.45-6.00 Clinical research on probiotics. Regulatory hurdles in the USA.</b>	
	- 4.45-4.55 When is a bug a drug. Jim Heimbach, Ph.D., F.A.C.N., JHEIMBACH LLC, Port Royal, Virginia, USA	
	- 4.55-5.10 NIH/NCCAM Perspectives: Challenges and Opportunities for Probiotic Biotherapeutics. Linda Duffy, Ph.D., National Center for Complementary and Alternative Medicine,	

	National Institutes of Health, Bethesda, Maryland USA	
	- 5.10-5.25 Probiotic product safety: A regulatory perspective. Cara Fiore, Ph.D., Office of Vaccines Research and Review, Center for Biologics Evaluation and Research, U.S. FDA, Washington DC, USA	
	- 5.25-6.00 Round Table Discussion. Cara Fiore, Linda Duffy, Dan Levy, Jim Heimbach (facilitator).	
6:15– 7:45 PM	<b>Late Breaking News</b> (Glenn Gibson, chair) – speaker list on page 3	Ashers Lounge and Dining Room
7:45 PM	Dinner	Ashers
	Pub after dinner – optional group meetings	Ashers Lounge
<b>Monday, November 10</b>		
7:00 – 8:00 AM	Breakfast	Ashers
8:00 AM – 5:00 PM (Lunch noon-1.30)	<b>Breakout Discussion Groups</b>	
	<b>Group 1: How do we know if a probiotic is safe for humans?</b> (Mary Ellen Sanders and Jim Heimbach, chairs)	Juniper Room
	<b>Group 2: How do we know if a prebiotic works?</b> (Glenn Gibson and Nathalie Delzenne, chairs)	Cherry Room
	<b>Group 3: Where can probiotics or synbiotics make the biggest human health impact?</b> (Jim Versalovic and Francisco Guarner, chairs)	Amphitheatre A
	<b>Group 4: Teaching, engaging and learning from the media.</b> (Gregor Reid, chair)	Spruce Room
	Continuous coffee	South Wing Coffee
7.30 PM	Dinner	Ashers
	Guest speaker: "The Do's and Don'ts of Social Media and Web 2.0." Amber MacArthur, A leading voice of the social media generation	
<b>Tuesday, November 11</b>		
7:00 – 9:00 AM	Breakfast	Ashers
9:00 AM – Noon	<b>Wrap up session.</b> Todd Klaenhammer, chair	Amphitheatre A
	Looking ahead to the 2009 National Academy of Sciences Sackler Symposium/ISAPP Meeting	
	Individual Groups 1, 2, 3 and 4 Reports	
Noon – 1:00 PM	Lunch	Ashers
	Meeting adjourned	
1.00-2.00 PM	ISAPP Board of Directors Meeting	Spruce Room

# Late Breaking News Session

Sunday 6.15-7.45pm.

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1. **Lothar Steidler:** Two clinical trials with GM *Lactococcus lactis*
2. **Louis Akkermans:** Trying to understand the unexpected negative effects of lactic acid bacteria in patients with predicted severe acute pancreatitis (PROPATRIA study)
3. **Dan Merenstein:** Reducing common infectious diseases in day care children consuming a probiotic fermented milk beverage
4. **Karen Scott:** Prebiotics - not just bifidogenic
5. **Hoots Mon, President Gregor (kilt wearing, no underwear, whisky gargling, haggis juggling, sporon tossing, claymore wielding, porridge smearing, caber tossing, Dirk stabbing) Reid:** Ach Jeemie gi us a slot av made a nu movee that ye'd like
6. **Melanie Gareau (postdoc):** Probiotics save neonatal mice from deadly pathogens!!
7. **Gloria Solano-Aguilar:** The P-model, to measure probiotic effects
8. **Carissa Thomas (student):** Potential role for adenosine in the suppression of TNF by *Lactobacillus reuteri*
9. **Delphine Saulnier (postdoc):** Folylpolyglutamates regulate the synthesis of the anti-microbial reuterin and Vitamin B12 in probiotic *Lactobacillus reuteri*
10. **Yehuda Ringel:** What academicians need from industry when conducting research on pro- and prebiotics
11. **Ruben Hummelen (student):** Potential immunostimulatory properties of probiotic bacteria among people living with HIV
12. **Andrew Martins (student):** Intestinal granulocyte-colony stimulating factor as a target for modulation by probiotics
13. **Bob Rastall:** Definitely defining the definition of definitive prebiotics – a defining statement.