

Scientific Programme

DAY 1

Thursday 22nd January 2009

08.00 Registration

08.45 **Welcome - Séamus Fanning, University College Dublin, Ireland**
Address by the Minister for Agriculture - Mr Brendan Smith, TD

09.00 **Keynote lecture - Prof Jim Farmer III, Director US-PHS (retired), USA** **SGM Speaker**
Cronobacter (Enterobacter sakazakii) -
Reflections on the first 50 years; challenges and unresolved issues for the next 50

SESSION 1: TAXONOMY & IDENTIFICATION

Chair: Roger Stephan, University of Zürich, Switzerland

09.30 Dr Carol Iversen, University College Dublin, Ireland
- What is (and isn't) *Cronobacter*?

09.50 Dr Ben Tall, Virulence Mechanisms Branch, CFSAN, USA
- Phenotypic diversity among *Cronobacter* spp. (*Enterobacter sakazakii*)

10.10 Prof Peter Kuhnert, University of Bern, Switzerland **SGM Speaker**
- Multilocus sequence analysis (MLSA) of *Cronobacter* and related taxa

10.30 Prof Séamus Fanning, University College Dublin, Ireland
- Molecular identification methods for *Cronobacter* species

SESSION 2: ISOLATION METHODS

Chair: Séamus Fanning, University College Dublin, Ireland

11.10 Dr Patrick Druggan, Thermofisher, UK **SGM Speaker**
- Culture media for isolation and detection of *Cronobacter* species

11.30 Dr Han Joosten, Nestlé Research Centre, Switzerland
- Development of a CEN-ISO horizontal standard method for detection of *Cronobacter*

11.50 Prof Keith Lampel, Director Division of Microbiology, FDA, USA
- Development of an FDA/AOAC standard method for detection of *Cronobacter*

12.10 **WORKSHOP A: Taxonomy, Identification & Isolation**

SESSION 3: PUBLIC HEALTH

Chair: Patrick Wall, University College Dublin, Ireland

14.00 Prof Jeff Farber, Health Canada
- *Cronobacter sakazakii* advice, policy and research in Canada

14.20 Dr Clíodhna Foley-Nolan, **safe food**, Dublin, Ireland
- Neonatal health

14.40 Dr Lorraine Kyne, University College Dublin, Ireland
- *Cronobacter* and the elderly

15.00 Dr Wayne Anderson, Food Safety Authority of Ireland
- Security of the Irish infant formula food chain

SESSION 4: ANALYSING THE RISK OF CRONOBACTER

Chair: Peter Ben Embarek, WHO, Geneva, Switzerland

15.40 Dr Anna Bowen, Centers for Disease Control and Prevention, USA
- *Cronobacter* infections in infants

16.00 Dr Martine Reij, University of Wageningen, The Netherlands **SGM Speaker**
- Calculating risk associated with *Cronobacter*

16.20 Prof Francis Butler, University College Dublin, Ireland
- Analysing the risk of *Cronobacter* – Risk Analysis in Ireland

16.40 Dr Mary Smith, University of Georgia, USA
- *Enterobacter sakazakii* invades brain and liver of 1-2 day old neonatal mice

16.55 Dr Franco Pagotto, Health Canada
- Pathogenesis of *Cronobacter*: enterotoxin production, adherence and invasion of the blood-brain barrier

17.10 Dr Sarah Cahill, FAO, Rome, Italy
- FAO/WHO risk assessments on *Enterobacter sakazakii* (*Cronobacter* spp.) in powdered infant formula and follow-up formula

17.30 - **WORKSHOP B: FAO/WHO Risk Assessment Model**

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DAY 2

Friday 23rd January 2009

SESSION 5: OCCURRENCE & SURVEILLANCE 1

Chair: Han Joosten, Nestle Research Centre, Switzerland

- 09.00 Prof Larry Beuchat, University of Georgia, USA **SfAM Lecture**
- *Cronobacter* in food and strategies for control
- 09.20 Dr Angelika Lehner, University of Zürich, Switzerland
- Highlighting environmental reservoir aspects for *Cronobacter* species **SGM Speaker**
- 09.40 Dr Norma Binsztein, Malbran Institute, Argentina
- *Cronobacter* spp isolates in Argentina: characterization and subtyping by Pulse-Field Gel Electrophoresis (PFGE) and proposal for the standardization of a PFGE protocol
- 10.00 Mr Brendan Healy, University College Dublin, Ireland
- Microarray analysis of *Cronobacter* species

SESSION 6: OCCURRENCE & SURVEILLANCE 2

Chair: Norma Binsztein, Malbran Institute, Argentina

- 10.40 Dr Jean-Louis Cordier, Nestlé Nutrition, Switzerland
- Control in manufacturing facilities
- 11.00 Prof Steve Forsythe, Nottingham Trent University, UK
- Desiccation and persistence of *Cronobacter* species in infant formula
- 11.20 Dr Geraldine Duffy, Teagasc, Ireland
- Sources and survival of *Cronobacter* in the farm to fork chain
- 11.40 Dr Niall Mullane, Danone Baby, Ireland
- Best Practice in infant formula manufacture
- 12.00 **WORKSHOP C: Occurrence & Surveillance**

SESSION 7: OCCURRENCE & SURVEILLANCE 3

Chair: Alan Reilly, Food Safety Authority Ireland, Ireland

- 14.00 Dr Norrakiah Abdullah Sani, University of Malaysia (UKM),
- *Cronobacter (Enterobacter) sakazakii* and other Enterobacteriaceae in powdered infant formula and children's milk in Malaysia
- 14.20 Prof Kunho Seo, Konkuk University, Seoul, Korea
- *Cronobacter (Enterobacter sakazakii)* research and surveillance in Korea
- 14.40 Ms Sharon Edelson Mammel, Division of Plant and Dairy Food Safety, FDA, USA
- Thermal and acid resistance of *Enterobacter sakazakii (Cronobacter)*
- 15.00 Dr Peter Ben Embarek, WHO, Geneva, Switzerland
- A world perspective on *Cronobacter* research and surveillance
- 15.20 **Final comments and way forward**

WORKSHOP PRESENTATIONS

WORKSHOP A: TAXONOMY, IDENTIFICATION & ISOLATION

- Dr Matthias Kiehne, Germany - Rapid detection of Enterobacteriaceae including identification of *E. sakazakii*
Dr Mike Kotewicz, USA - Optical maps of subgroups of *Cronobacter (Enterobacter sakazakii)* show large chromosomal regions of homology and differences among isolates

WORKSHOP B: FAO/WHO RISK ASSESSMENT MODEL

- Mr Greg Paoli, Canada - Demonstration of the FAO/WHO risk assessment model

WORKSHOP C: OCCURRENCE & SURVEILLANCE

- Ms Edita Custic, UK - Biofilm formation by *Cronobacter* on infant feeding bottles and teats
Dr Stephen O'Brien, Ireland - Prevalence of *Cronobacter* species (*Enterobacter sakazakii*) in follow-on infant formulae and infant drinks.
Mr Hamid Ibrahim, UAE - Incidence of *Cronobacter sakazakii* in powdered-milk-based infant formula in Dubai (UAE)

POSTER SESSIONS / REFRESHMENT BREAKS WILL BE HELD AT THE END OF EACH SESSION

POSTER PRIZE AWARDS WILL BE AT THE END OF WORKSHOP C