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11 credit hours (CME) have been awarded to the Symposium 207 by the European Union of Medical Specialists (UEMS) - European Board of Gastroenterology.

## Preface

In recent years medicine has witnessed an astonishing paradigm shift. For decades it was believed that for most diseases the individual risk was defined by the genetic make-up, potentially modified by the environment and lifestyle-factors. It has now emerged that the gut microbiome plays an equally important role for many gastrointestinal and non-gastrointestinal disorders. This opens astonishing new avenues to understand and target disease mechanisms in particular in relation to immune mediated diseases but might be equally important for the prevention of disease. Thus the organisers Gerald Holtmann and Mark Morrison from Brisbane, Nicholas Talley from Newcastle, William Chey from Ann Arbor, and Peter Gibson from Melbourne in close collaboration with other experts in the field have developed a scientific program that brings together basic scientists and clinicians from many disciplines to define our current knowledge and define future directions that are relevant for the translation of this knowledge into clinical practice.

On behalf of the scientific committee

Prof. Gerald Holtmann, Brisbane



# Gut Microbiome and Mucosal or Systemic Dysfunction: Mechanisms, Clinical Manifestations and Interventions

**May 19 – 20, 2017**  
**Brisbane Convention &  
Exhibition Centre**  
**Brisbane, Australia**

**Registration:**

Thursday, May 18, 2017  
16.00 – 21.00 h  
at the congress office

**Congress Venue:**

Brisbane Convention &  
Exhibition Centre  
Merivale St & Glenelg Street  
South Brisbane, QLD 4101  
Australia

**The Symposium 207 is organized  
by Falk Foundation e.V.**

**Scientific Organization:**

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**Scientific Co-Organization:**

W.D. Chey, Ann Arbor (USA)  
P.R. Gibson, Melbourne (Australia)  
M. Morrison, Brisbane (Australia)  
M. Simrén, Gothenburg (Sweden)  
N.J. Talley, Newcastle (Australia)

**Official Language:**

English

**Posters:**

A poster session will take place.  
For details see page 12.

## Friday, May 19, 2017

- 8.30** Welcome G. Holtmann, Brisbane
- 8.40** Associate Director General, Department of Science, Information Technology and Innovation C. Williams, Brisbane

### Session I The fundamentals and how to determine what really matters

**Chair:** H.M. Mitchell, Sydney; G. Tyson, Brisbane

- 8.50 State-of-the-Art Lecture:** Prevalent but uncharacterised microbial populations in the human gut microbiome P. Hugenholtz, Brisbane
- 9.25** Crosstalk between microbiota, pathogens and the innate immune responses J. Wehkamp, Tübingen
- 9.45** Morphology of inflammatory changes of the mucosa: Time to reassess inflammatory responses of the mucosa M.M. Walker, Newcastle
- 10.05** Making it all fit – Statistical challenges and new data analysis methods for integrating microbiome data with other clinical measures K.-A. Le Cao, Brisbane
- 10.25** Assessment of symptoms in FGID and IBD studies that target the GI microbiome M.P. Jones, Sydney
- 10.45 Coffee break with poster session**

### Session II Microbiome-host interactions

**Chair:** M. Morrison, Brisbane; C. O'Brien, Canberra

- 11.15 State-of-the-Art Lecture:** Faecalibacterium prausnitzii and other next-generation probiotics to prevent and to treat gastrointestinal disorders and diseases in humans P. Langella, Jouy-en-Josas
- 11.45** Does host genotype shape the gut microbiome? M.-E. Costello, Brisbane
- 12.05** How does the gut microbiota affect the epigenome? M.V. Joglekar, Sydney

## Friday, May 19, 2017

- 12.25** A question of culture? Development and differentiation of the mucosal and luminal microbiomes P. O Cuiv, Brisbane
- 12.45** The role of mucins in shaping the microbiome? M. McGuckin, Brisbane
- 13.05** How does epithelial cell stress affect the nutrient and physical landscapes of the microbiome? S. Keely, Newcastle
- 13.25 Oral poster presentation:**  
The induction of dysbiosis in the small intestine promotes allergic sensitisation G. Burns, Newcastle
- 13.35 Oral poster presentation:**  
Faecal supernatants from patients with diarrhoea predominant IBS disrupt colonic epithelial barrier function and directly affect colorectal afferent nerves H. Wardill, Adelaide
- 13.45 Lunch with poster session**

### Session III

## The gastrointestinal microbiome, diet and management of chronic diseases

**Chair:** E. Powell, Brisbane; S. Roberts, Melbourne

- 14.45** Microbes affecting gastrointestinal growth and function: Role of the aryl-hydrocarbon-receptor S. Pettersson, Singapore
- 15.05** Effect of eradication therapy of *H. pylori* on gut microbiota K. Sugano, Tochigi
- 15.25** Pre-, pro- and synbiotics for chronic kidney disease K. Campbell, Brisbane
- 15.45** The microbiome and obesity: Cause, consequence or both? A. Holmes, Sydney
- 16.05 Oral poster presentation:**  
Reducing the maternal dietary intake of indigestible and slowly absorbed short-chain carbohydrates is associated with improved infantile colic: A proof-of-concept study M. Iacovou, Melbourne
- 16.15 Oral poster presentation:**  
The prebiotic impact of dietary FODMAPs on intestinal microbiota E.P. Halmos, Melbourne
- 16.25 Coffee break with poster session**

▶ **Friday, May 19, 2017**

**Session IV**  
**Intended and unintended alterations of the human microbiome**

**Chair:** J. Gapsin-Tongo, Quezon City; M. Grimm, Sydney

- 16.45 State-of-the-Art Lecture:** P. Moayyedi, Hamilton  
Comparative efficacy of traditional treatments and treatments targeting the microbiome in IBD and IBS
- 17.15** The FODMAP diet - A microbiome targeted intervention and what could be the consequences? M. Chen, Guangzhou
- 17.35 Debate: Faecal microbiota transplantation: Are we ready for prime-time?**
- Chair:** W.D. Chey, Ann Arbor
- PRO: Faecal microbiota transplantation (FMT) – Ready for prime time M.A. Kamm, Melbourne
- CONTRA J. Andrews, Adelaide
- 17.55** Summary of the day E.M. El-Omar, Sydney
- 18.05 Scientific discussion with snacks**

## ▶ Saturday, May 20, 2017

### Session V

#### The gastrointestinal microbiome and extraintestinal diseases

**Chair:** G. Hebbard, Melbourne; B. Kendall, Brisbane

- 8.30 State-of-the-Art Lecture:** E.A. Mayer, Los Angeles  
Microbiome and brain function in health and disease
- 9.00** Anxiety and depressive disorders, the inflammasome, and the gut microbiome M. Gray, Brisbane
- 9.20** Distinct oral and fecal community profiles enriched in opportunistic pathogens in rheumatoid arthritis patients R. Thomas, Brisbane
- 9.40** Friend or foe: The microbiome in liver disease L. Adams, Perth
- 10.00 Oral poster presentation:** A. Loughman, Melbourne  
Gut microbiota composition and behaviour problems in early childhood
- 10.10 Oral poster presentation:** L. Bajer, Prague  
Distinct gut microbiota profiles in patients with primary sclerosing cholangitis and ulcerative colitis
- 10.20 Coffee break with poster session**

### Session VI

#### Targeting the mucosal microbiome and mucosal immune responses

**Chair:** T. Florin, Brisbane; R.W.L. Leong, Sydney

- 10.50 State-of-the-Art Lecture:** H. Ohno, Yokohama  
The function of M cells in host-microbe interactions
- 11.20** The mucosal microbiome of the upper GI tract and its role in FGIDs E.R. Shanahan, Brisbane
- 11.40** The gut-lung axes and IBD K.M. Fock, Singapore
- 12.00** The microbiome, autophagy and IBD J. Begun, Brisbane

## ▶ Saturday, May 20, 2017

- 12.20** Characterising local and systemic immune response in functional dyspepsia A. Do, Brisbane
- 12.40 Oral poster presentation:** Esophageal dysbiosis in Barrett's esophagus and esophageal adenocarcinoma T.-M.-T. Nguyen, Brisbane
- 12.50 Oral poster presentation:** Reduced abundance of *Faecalibacterium prausnitzii* in the terminal ileum mucosa-associated microbiome correlates with increased small intestinal permeability in chronic liver disease A.S. Raj, Brisbane
- 13.00 Presentation of poster awards** P.R. Gibson, Melbourne
- 13.15 Lunch break with poster session**

### Session VII

## What are the challenges and opportunities of future approaches to maintain or improve health and wellbeing by targeting the microbiome?

**Chair:** K.M. Fock, Singapore; R. Ward, Brisbane

- 14.10 State-of-the-Art Lecture:** The current and future assessment and targeted modulation of the gastrointestinal microbiome in the clinical setting E.M.M. Quigley, Houston
- 14.40** The host genes and associations with the microbiome: Implications for targeted interventions S.C. Ng, Hong Kong
- 15.00** Diets, functional foods, such as EEN or PEN and inflammatory bowel disease P. Lewindon, Brisbane
- 15.20 Coffee break with poster session**
- 15.50** Next generation microbiology: Monitoring the resistome by shot gun metagenomics to fight the spread of antimicrobial resistance I. Autenrieth, Tübingen
- 16.10** The clinician's perspective of needs and opportunities in developing countries U.C. Ghoshal, Lucknow





## Saturday, May 20, 2017

**16.30 Oral poster presentation:**

A type 1 diabetes associated core microbiome driven by interleukin 2 pathway and MHC genetic variation

J.A. Mullaney,  
Brisbane

**16.40 Oral poster presentation:**

Postoperative Crohn's disease recurrence is associated with specific changes in the faecal microbiome – Potential pathogenic and protective roles

A.L. Hamilton,  
Melbourne

**16.50 Summary & conclusions**

G. Holtmann,  
Brisbane

N.J. Talley,  
Newcastle

M. Morrison,  
Brisbane

## Poster Session

Posters will be exhibited on May 19 and May 20, 2017 in the Brisbane Convention & Exhibition Centre. The authors will be in attendance during coffee and lunch breaks on both days.

1. Intestinal dysbiosis in patients with short bowel syndrome dependent on total parenteral nutrition is reflected by altered metabolome in faeces  
L. Bajer, M. Kostovcik, J. Hradecky, T. David, P. Wohl, J. Spicak, P. Drastich, M. Cahova (Prague, CZ)
2. District gut microbiota profiles in patients with primary sclerosing cholangitis and ulcerative colitis  
L. Bajer, M. Kverka, M. Kostovcik, P. Macinga, J. Dvorak, Z. Stehlikova, J. Brezina, J. Spicak, P. Drastich (Prague, CZ)
3. Effect of native and acetylated high amylose maize starch on fecal pH, short chain fatty acid concentrations and fecal microbiota in a cohort of non-stunted and stunted children in southern India  
R. Balamurugan, S. Pugazhendi, B.M. Gowri, D. Tamilselvan, E. Mortimer, G. Gopalsamy, R.J. Woodman, R. Meng, M. Manary, H.J. Binder, I. Brown, G.P. Young, B.S. Ramakrishna (Vellore, IN; Adelaide, AU; St. Louis, New Haven, US)
4. Organic alternative to in feed antibiotics in agriculture  
B.W. Bauer, J.R. McIntyre, K.B. Walsh, R.J. Moore, D. Stanley (Rockhampton, Melbourne, AU)
5. Antibiotic treatment reduces oral and colonic expression of sweet taste receptor TAS1R2  
E.L. Beckett, G. Burns, M. Lucock, M. Veysey, S. Keely (Newcastle, AU; London, GB)
6. Stress-mediated activation of NLRP6 drives immune dysfunction in functional gastrointestinal disorders (FGIDs)  
J. Bruce, I. Grainge, K. Mettrick, N.J. Talley, M.M. Walker, S. Keely (Newcastle, AU)
7. Regulation of lung macrophage metabolism and gene expression via the gut-microbiota-lung axis and SCFAs protects against cigarette smoke-induced lung pathology  
K.F. Budden, S.L. Gellatly, D.L.A. Wood, M. Morrison, M.A. Cooper, P. Dennis, P. Hugenholtz, P.M. Hansbro (Newcastle, Brisbane, AU)
8. Probiotics, the gut microbiome and depression: A clinical trial to assess the effect of probiotics on depression  
C. Burke, S. van Hemert, S. Kwan, L. Roberts (Sydney, AU; Amsterdam, NL)
9. Functional and genomic analyses of the *Faecalibacterium prausnitzii* Mam protein  
S. Burman, J.M. Chatel, J. Daly, G. Tyson, P. Langella, P. O Cuiv, M. Morrison (Brisbane, AU; Jouy-en-Josas, FR)
10. The induction of dysbiosis in the small intestine promotes allergic sensitisation  
G. Burns, B. Goggins, K. Minahan, M.M. Walker, N.J. Talley, P. Foster, J. Horvat, S. Keely (Newcastle, AU)

11. Statin therapy causes microbiome alteration and gut dysbiosis in mice  
J.A. Caparros-Martin, R.R. Lareu, J. Ramsay, J. Peplies, F.J. Reen, P. Newsholme, J. Hughes, F. O’Gara (Perth, AU; Bremen, DE; Cork, IE)
12. Oral delivery of pancreatitis-associated protein (PAP) by *Lactococcus lactis* displays protective effects in mouse acute colitis model through Treg induction  
J.-M. Chatel, N. Breyner, R.D. da Carvalho, T. Rochat, P. Bagano, V. Boas, D. Pontes, F. Chain, H. Sokol, M. Azevedo, A. Myoshi, V.A. Azevedo, P. Langella, L.G. Bermudez-Humaran (Jouy-en-Josas, FR; Belo Horizonte, BR)
13. A proposal for a randomized study of allogeneic vs. autologous fecal microbiome transplant (FTM) in patients with non-alcoholic steatohepatitis (NASH)  
H. Conjeevaram, E. Oral, H. Kwon, M. Gilliland (Ann Arbor, US)
14. Iron supplementation does not alter the gut microbiome in early pregnancy  
M. Dekker Nitert, L.F. Gomez-Arango, D.M. Frazer, H. Barrett, L.K. Callaway, G.J. Anderson (Brisbane, AU)
15. Iron deficiency anaemia: Effects on small intestine T-lymphocyte and immune function  
A. Do, Y. Li, A. Shah, P. Ghasemi, E. Shanahan, T. Hansen, N. Koloski, N.J. Talley, G. Holtmann (Brisbane, Newcastle, AU)
16. Alterations of T-lymphocyte subpopulations in association with bowel symptoms in functional dyspepsia and functional dyspepsia-irritable bowel syndrome overlap  
A. Do, Y. Li, E. Shanahan, T. Hansen, N. Koloski, S. Keely, M.M. Walker, N.J. Talley, G. Holtmann (Brisbane, Newcastle, AU)
17. Early manipulation of intestinal microbiota  
E. Donaldson, J. McIntyre, S. Baldwin, R. Hughes, R. Moore, D. Stanley (Rockhampton, Roseworthy, Melbourne, AU)
18. Influence of selenium nanoparticles on intestinal health and *Faecalibacterium prausnitzii* abundance  
S. Gangadoo, J. Chapman, R.J. Hughes, T.T.H. Van, R.J. Moore, D. Stanley (Rockhampton, Roseworthy, Melbourne, AU)
19. Metaproteomics: Predicting risk of developing type 1 diabetes  
P. Gavin, J. Mullaney, D. Zipris, E.E. Hamilton-Williams (Brisbane, AU; Denver, US)
20. Role of anti-inflammatory gut bioactives in the modulation of immune response in Crohn’s disease  
R. Giri, P. O Cuiv, J. Begun (Brisbane, AU)
21. Hypoxia inducible factor (HIF)-1 accelerates epithelial wound healing through integrin regulation  
B.J. Goggins, K. Minahan, N. Outteridge, D. Knight, J. Horvat, S. Keely (Newcastle, AU)
22. A fibre-deprived diet influences *Collinsella* abundance in the overweight and obese pregnant microbiome and alters maternal metabolic risk  
L.F. Gomez-Arango, H.L. Barrett, S. Wilkinson, L.K. Callaway, H.D. McIntyre, M. Morrison, M. Dekker Nitert (Brisbane, AU)

23. Resistant starch as a novel prebiotic in infants  
G. Gopalsamy, C.T. Christophersen, E. Mortimer, A. Bird, G. Young (Adelaide, Perth, Adelaide, AU)
24. Reduced GI symptoms and premotor cortex activation in Crohn's disease following anti-TNF $\alpha$  treatment  
M. Gray, C. Chao, N.J. Talley, N. Koloski, G. Holtmann (Brisbane, Newcastle, AU)
25. Anti-TNF $\alpha$  treatment in Crohn's disease reduces GI symptoms and alters neuro-circuitry underlying motivation  
M. Gray, C. Chao, N.J. Talley, N. Koloski, G. Holtmann (Brisbane, Newcastle, AU)
26. Anti-TNF $\alpha$  in IBD improves positive attribution bias and gastrointestinal symptoms  
M. Gray, C. Chao, N.J. Talley, N. Koloski, G. Holtmann (Brisbane, Newcastle, AU)
27. The prebiotic impact of dietary FODMAPs on intestinal microbiota  
E. Halmos, C.T. Christophersen, A.R. Bird, J.G. Muir, P. R. Gibson (Melbourne, Perth, Adelaide, AU)
28. Postoperative Crohn's disease recurrence is associated with specific changes in the faecal microbiome – Potential pathogenic and protective roles  
A.L. Hamilton, M.A. Kamm, S.-M. Teo, P. De Cruz, E.K. Wright, H. Feng, K.J. Ritchie, J.J.Y. Sunge, C. Kirkwood, M. Inouye (Melbourne, AU; Hong Kong, HK; London, GB)
29. Intrafamilial spread of *Helicobacter pylori* infection in North Jakarta  
R. Herardi, A.F. Syam, M. Simadibrata, S. Setiati, N. Darnindro, O.D. Asmara (Jakarta, ID)
30. Acquired and innate immune responses are inhibited in IBS-D in symptom flare vs. symptom free  
P. Hughes, C. Mavrangelos, M. Campaniello, P. Bampton, J. Andrews (Adelaide, AU)
31. Reducing the maternal dietary intake of indigestible and slowly absorbed short-chain carbohydrates is associated with improved infantile colic: A proof-of-concept study  
M. Iacovou, E.C. Mulcahy, H. Truby, J.S. Barrett, P.R. Gibson, J.G. Muir (Melbourne, AU)
32. Post OP Crohn's disease maintenance: Is AZA a better option – An Indian study  
B.P.N. Kaushik, D. Kshaunish, S. Rajib, D. Gopal Krishna (Kolkata, IN)
33. The role of small intestinal bacterial overgrowth in pathogenesis of lactase deficiency  
O. Knyazev, N. Fadeeva, I. Ruchkina, A.I. Parfenov, P. Shcherbakov (Moscow, RU)
34. Antibiotic resistance genes in the gut microbiome of pregnant women  
M. Kobayashi, L.F. Gomez-Arango, W. Carey-Foster, L.K. Callaway, M. Morrison, H.L. Barrett, M. Dekker Nitert (Brisbane, AU)
35. Fecal microbiota transplantation: Should we form European cooperative network?  
P. Kohout, J. Vejmelka (Prague, CZ)

36. Responses of circulating granulocytes in functional dyspepsia patients  
Y. Li, A. Do, E. Shanahan, N. Koloski, T. Hansen, A. Shah, S. Keely, N.J. Talley, G. Holtmann (Guangzhou, CN; Brisbane, Newcastle, AU)
37. Keeping your MAITs in line; interrogating MAIT cell activation in an animal model of inflammatory bowel disease  
R.-J. Lohman, J.Y.W. Mak, L. Liu, A. Do, D. Fairlie (Brisbane, AU)
38. Gut microbiota composition and behaviour problems in early childhood  
A. Loughman, M. O’Hely, F. Collier, M. Conlon, C. Symeonides, A.-L. Ponsonby, P. Vuillermin; Barwon Infant Study Investigator Group (Melbourne, Geelong, Adelaide, AU)
39. Platelet-activating factor signalling drives pulmonary inflammation in animal models of colitis  
A. Mathe, S. Mateer, J. Bruce, P. Foster, J. Horvat, P.M. Hansbro, S. Keely (Newcastle, AU)
40. Microbial colonisation of the duodenal-jejunal bypass sleeve used for treatment of obesity: Results of a pilot study  
J. McMaster, E. Shanahan, G. Rich, V. Chachay, M. Morrison, G. Holtmann (Brisbane, AU)
41. Alteration of the microbiome effects neuroprotective mechanisms in an animal model of glaucoma  
Z.E. McPherson, M. McEvoy, H.U. Lee, N.J. Talley, A. Agar, M. Coroneo, S. Pettersson (Newcastle, Sydney, AU; Singapore, SG; Stockholm, SE)
42. Hierarchical structure of mucin within the gastrointestinal tract and its interaction with dietary components  
O. Meldrum, G.E. Yakubov, M.A. McGuckin, M.J. Gidley (Brisbane, AU)
43. A type 1 diabetes associated core microbiome driven by interleukin 2 pathway and MHC genetic variation  
J.A. Mullaney, J.E. Stephens, C. Fong, B.E. Geeling, E.E. Hamilton-Williams (Brisbane, AU)
44. Fecal transplant special way: The results of jejunal delivery in our practice  
B. Nagy, Z. Csapo (Kistarcsa, HU)
45. Esophageal dysbiosis in Barrett’s esophagus and esophageal adenocarcinoma  
T.M.T. Nguyen, E. Shanahan, L. Krause, D.C. Whiteman, B.J. Kendall, L.F. Hourigan, A.P. Barbour, G. Holtmann, M. Morrison, M. Hill (Brisbane, AU)
46. Tight junction dysfunction not present in a chronic fatigue syndrome/myalgic encephalomyelitis cohort  
R.J. Passmore, S.C. Johnston, D.R. Staines, S.M. Marshall-Gradisnik (Gold Coast, AU)
47. Clostridium difficile isolation and characterization from hospitalized patients – A pilot study from gastroenterological ward of a tertiary institution  
S. Pintar, M. Rupnik, P. Skok (Maribor, SI)

48. Mucosal washings, a new technique for sampling the mucosal microbiota community  
C. Poulton, A. Lemberg, A. Day, E. Wine, S. Leach (Sydney, AU)
49. Reduced abundance of *Faecalibacterium prausnitzii* in the terminal ileum mucosa-associated microbiome correlates with increased small intestinal permeability in chronic liver disease  
A.S. Raj, E. Shanahan, C. Tran, P. Bhat, L.M. Fletcher, M. Morrison, G. Holtmann, G.A. Macdonald (Brisbane, Adelaide, Canberra, AU)
50. Treatment of ZAP-70 mutant SKG mice with anti-IL-23 antibody alters fecal microbiota composition and prevents outgrowth of bacteria associated with susceptibility to spondyloarthritis and ileitis  
L.M. Rehaume, N. Matigian, K. Ormerod, A. Kang, R. Linedale, O. Zbarskaya, K. Kikly, J. Daly, N. Lachner, P. Hugenholtz, M. Morrison, K.-A. Le Cao, R. Thomas (Brisbane, AU; Indianapolis, US)
51. A novel approach to quantify small intestinal bacterial load: A pilot study in Crohn's disease, functional gastrointestinal disorders and patients with iron deficiency  
A. Shah, A. Nair, D. Burger, A. Do, M. Walker, L. Fletcher, N.J. Talley, M. Morrison, E. Shanahan, G. Holtmann (Brisbane, Newcastle, AU)
52. Is there a link between *H. pylori* and the epidemiology of Crohn's disease  
A. Shah, N.J. Talley, M. Walker, N. Koloski, M. Morrison, D. Burger, J.M. Andrews, M. McGuckin, M. Jones, G. Holtmann (Brisbane, Newcastle, Adelaide, Sydney, AU)
53. Is there an association between enteric methane (CH<sub>4</sub>) production and symptoms in patients with unexplained GI symptoms?  
A. Shah, L. Fletcher, P. Ghasemi, T. Hansen, M. Morrison, G. Holtmann (Brisbane, AU)
54. Systematic review and meta-analysis: Prevalence of small intestinal bacterial overgrowth in chronic liver disease  
A. Shah, E. Shanahan, G. Macdonald, L. Fletcher, M. Morrison, A. Raj, M. Jones, G. Holtmann (Brisbane, Sydney, AU)
55. Life in the duodenum: Isolation of small intestinal mucosa-associated bacteria in functional dyspepsia patients  
E. Shanahan, A. Do, A. Sheela Nair, A. Rameshkumar, P. O Cuiv, M. Morrison, G. Holtmann (Brisbane, AU)
56. The effect of dietary fibre on gut microbiota composition in healthy adults: A systematic review and meta-analysis  
D. So, K. Whelan, M. Rossi, M. Morrison, H. Staudacher, K. Campbell (Gold Coast, Brisbane, AU; London, GB)
57. Stroke induces robust changes to intestinal mucosal microbiota  
D. Stanley, R.J. Moore, C.H.Y. Wong (Rockhampton, Melbourne, AU)
58. High rates of *Clostridium difficile* infection in inflammatory bowel disease admissions to a tertiary referral centre  
K.M. Taylor, B.J. Headon, R.P. Lubber, M.P. Sparrow (Melbourne, AU)

59. Oral  $\alpha$ -galactosidase improves gastrointestinal tolerance to a diet high in galacto-oligosaccharides: Adjunct therapy to a low FODMAP diet in irritable bowel syndrome  
C.J. Tuck, K.M. Taylor, J.S. Barrett, P. R. Gibson, J. Muir (Melbourne, AU)
60. Faecal supernatants from patients with diarrhoea predominant IBS disrupt colonic epithelial barrier function and directly affect colorectal afferent nerves  
H. Wardill, J. Bowen, N. Dmochowska, M. Campaniello, C. Mavrangelos, J. Andrews, S. Costello, P. Hughes (Adelaide, AU)
61. Translocation and dissemination of commensal bacteria in post-stroke infection  
C.H.Y. Wong, D. Stanley, L.J. Mason, K.E. Mackin, Y.N. Srikhanta, D. Lyras, M.D. Prakash, K. Nurgali, A. Venegas, M.D. Hill, R.J. Moore (Melbourne, Rockhampton, AU; Calgary, CA)
62. Modulation of hydrogen sulfide production from faecal microbiota by diet and mesalazine: Utility of a novel in vitro gas-profiling technology  
C.K. Yao, A.N. Rotbart, K. Kalantar-Zadeh, J.Z. Ou, J.G. Muir, P.R. Gibson (Melbourne, AU)

## List of Speakers, Moderators and Scientific Organizers

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**Prof. Timothy Florin**

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## Congress Office

**During** the Symposium in Brisbane

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### **Opening Hours:**

Thursday, May 18, 2017	16.00 – 21.00 h
Friday, May 19, 2017	7.00 – 18.00 h
Saturday, May 20, 2017	8.00 – 17.00 h

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