



Conference Programme



From Nutraceuticals to Pharmaceuticals – Common Challenges and Approaches

Theme 1	<i>Novel sources of nutraceuticals and natural product pharmaceuticals</i>
Theme 2	<i>Bioavailability/pharmacokinetics of nutraceuticals and natural product pharmaceuticals</i>
Theme 3	<i>Translating novel pathways and mechanisms of action into the clinical use of nutraceuticals and natural product pharmaceuticals</i>
Theme 4	<i>Personalized nutrition and natural product medicine: therapeutic evidence and regulatory requirements?</i>
Theme 5	<i>Two different worlds? - addressing the convergence between nutraceuticals, TCM and western medicine</i>
Theme 6	<i>Drug/nutrient/microbiome/lifestyle interactions</i>

Tuesday, September 26, 2017

16.00– 18.00	Registration
18.00 – 18.15	<p>CROMBIE B Official Welcome to ICMAN-IUPHAR Natural Products from ONE Life Sciences</p>
18.15– 19.00	<p>Welcome Lecture <i>“Route to product development – from concept to a commercially viable product”</i> Dr Charlie Bavington, Glycomar, Scotland</p>
19.00 – 20.30	Welcome Reception - Boyd Orr

Wednesday 27 th September 2017 Crombie B			
09.00-12.30	<p align="center">Theme 1: Novel sources of nutraceuticals and natural products <i>Chair - Giovanna Bermano</i> <i>Co-Chair – Raymond Anderson</i></p>		
09:00-09:45	<p align="center"><i>Keynote Lecture – “Sponging off nature for new drug leads”</i> Professor Raymond Andersen, University of British Columbia, Canada</p>		
09.45-10.10	<p align="center"><i>ICMAN Invited Speaker – “Nutraceuticals retrieved from food processing waste”</i> Dr Charis Galanakis, Galanakis Laboratories, Greece</p>		
10.10-10.35	<p align="center"><i>IUPHAR Invited Speaker – “Advances and standardization of propolis-based drugs”</i> Professor José Maurício Sforcin, São Paulo State University, Brazil</p>		
10:30-11:00	Tea/Coffee Break – Boyd Orr		
11:00-12:15	<table border="0" style="width: 100%;"> <tr> <td style="width: 50%; vertical-align: top;"> <p align="center">CROMBIE A</p> <p>Session 1: Novel sources of bioactives I Chair - Dr Carol Clements, Strathclyde University</p> <p>11.00: O1 - Isolation and identification of an antimicrobial and cytotoxic chlorinatedperylenequinone from the symbiotic fungus <i>Aspergillus fumigatus</i> D. Huawei Zhang¹, Xuelian Bai², Hong Wang^{1,2}<i>Zhejiang University of Technology, and ²Hangzhou Normal University, Hangzhou, China</i></p> <p>11.15: O2 - Antidepressant-like effect of <i>Zanthoxylum alatum</i> on lipopolysaccharide-induced depressive-like behaviour and neurochemical changes in mice. Kunjbihari Sulakhiya¹, Chandana Choudhury Barua², Prakash Haloi³, Beenita Saikia², Debesh Chandra Pathak², Shantanu Tamuli². <i>_Indira Gandhi National Tribal University, Madhya Pradesh, India ² Assam Agricultural University, Assam, India ³National Institute of Science Education and Research Bhubaneswar, Odisha, India</i></p> <p>11.30: O3 - An <i>in vitro</i> study on the anti-cancer properties of rapeseed</p> </td> <td style="width: 50%; vertical-align: top;"> <p align="center">CROMBIE B</p> <p>Session 2: Industry session I Chair – Dr Harriet Oldham, Neem Biotech</p> <p>11.00: O5 - Nature Open Library, an open innovation initiative to boost the exploration of natural products. F Sautel. <i>Institut de Recherche Pierre Fabre, France</i></p> <p>11.25: O6 - You have an innovative, bio-based idea that isn't getting commercialized. Now what? J Green¹, J Buch Andersen^{2,1}<i>Njorth Bio_ AS, Tromsø, Norway, ²Njorth Bio-boost AS, Stavanger, Norway.</i></p> <p>11.50: O47 - Metabolic engineering of high-value lipid production in brassica seeds. H Ettaki, M A Troncoso-Ponce, J-D Faure, L Lepiniec, S Baud, G Mouille. <i>Institut Jean-Pierre Bourgin, Université Paris-Saclay, France</i></p> </td> </tr> </table>	<p align="center">CROMBIE A</p> <p>Session 1: Novel sources of bioactives I Chair - Dr Carol Clements, Strathclyde University</p> <p>11.00: O1 - Isolation and identification of an antimicrobial and cytotoxic chlorinatedperylenequinone from the symbiotic fungus <i>Aspergillus fumigatus</i> D. Huawei Zhang¹, Xuelian Bai², Hong Wang^{1,2}<i>Zhejiang University of Technology, and ²Hangzhou Normal University, Hangzhou, China</i></p> <p>11.15: O2 - Antidepressant-like effect of <i>Zanthoxylum alatum</i> on lipopolysaccharide-induced depressive-like behaviour and neurochemical changes in mice. Kunjbihari Sulakhiya¹, Chandana Choudhury Barua², Prakash Haloi³, Beenita Saikia², Debesh Chandra Pathak², Shantanu Tamuli². <i>_Indira Gandhi National Tribal University, Madhya Pradesh, India ² Assam Agricultural University, Assam, India ³National Institute of Science Education and Research Bhubaneswar, Odisha, India</i></p> <p>11.30: O3 - An <i>in vitro</i> study on the anti-cancer properties of rapeseed</p>	<p align="center">CROMBIE B</p> <p>Session 2: Industry session I Chair – Dr Harriet Oldham, Neem Biotech</p> <p>11.00: O5 - Nature Open Library, an open innovation initiative to boost the exploration of natural products. F Sautel. <i>Institut de Recherche Pierre Fabre, France</i></p> <p>11.25: O6 - You have an innovative, bio-based idea that isn't getting commercialized. Now what? J Green¹, J Buch Andersen^{2,1}<i>Njorth Bio_ AS, Tromsø, Norway, ²Njorth Bio-boost AS, Stavanger, Norway.</i></p> <p>11.50: O47 - Metabolic engineering of high-value lipid production in brassica seeds. H Ettaki, M A Troncoso-Ponce, J-D Faure, L Lepiniec, S Baud, G Mouille. <i>Institut Jean-Pierre Bourgin, Université Paris-Saclay, France</i></p>
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	<p>pomace extracts. M Goua¹, G Barron^{1,2}, P Kong Thoo Lin¹, G Bermanno². ¹<i>School of Pharmacy and Life Sciences and</i> ²<i>Centre for Obesity Research and Education, Robert Gordon University, Aberdeen, UK</i></p> <p>11.45: O7 - Proteome, biochemical and plasma glucose analysis of <i>Cosciniumfenestratum</i> stem extract as an anti-diabetic agent. P Okechukwu¹, S Ekeuku¹, A Simbuna¹, Swee Sena Teo¹, G Akuwoah¹, G Froemming². ¹<i>UCSI University and</i> ²<i>Universiti Teknologi Mara, Selangor, Malaysia</i></p> <p>12.00: O9 - Isolation, identification and anti-cancer activity of minor alkaloids from <i>Triclisiasubcordata</i> Oliv. FI Uche¹, M Abed¹, MI Abdullah¹, FP Drijfhout¹, J McCullagh², T WD Claridge², A Richardson¹, W-W Li¹. ¹<i>Keele University, Oxford University, UK</i></p>	
12:15 – 14:00	Lunch & Posters – Boyd Orr	
13.00 – 14:00	<p>CROMBIE A</p> <p>Workshop Session 1: <i>Novel tools for nutraceutical/NP pharmaceutical research</i></p>	<p>CROMBIE B</p> <p>Workshop Session 2: <i>Biotechnology and upscaling of production</i></p>
14:00-17.45	<p>CROMBIE B</p> <p>Theme 2:</p> <p>Bioavailability/pharmacokinetics of nutraceuticals and natural product pharmaceuticals</p> <p><i>Chair – Michael Spedding</i></p> <p><i>Co-Chair – Junji Terao</i></p>	
14:00-14.45	<p><i>Keynote Lecture: "Factors affecting bioavailability of plant polyphenols"</i></p> <p>Professor Junji Terao, Konan Women's University, Kobe City, Japan</p>	
14:45-15:10	<p><i>ICMAN Invited Speaker – "Polyphenols as natural products and nutraceuticals: bioavailability and bioactivity"</i></p> <p>Professor Gary Williamson, University of Leeds, UK</p>	
15:10-15:35	<p><i>IUPHAR Invited Speaker – "Natural product-based protein amyloid inhibitors"</i></p> <p>Professor Bin Xu, Virginia Technical College of Agriculture & Life Sciences, USA</p>	
15:35-16:00	Tea/Coffee Break – Boyd Orr	

16:00-17.00

CROMBIE A

Session 3: Bioavailability/pharmacokinetics

Chair – Professor Gary Williamson, Leeds University

- 16.00: O12** - Effect of the hexane fraction obtained from the hydroalcoholic extract of *Punicagranatum* leaves on cecal ligation and puncture-induced sepsis in mice. **NCF Sousa¹, I Fernandes da Silva Figueiredo¹, MC de Araújo¹, EP de Andrade¹, TC Alves¹, BLR da Silva¹, DMS Pereira¹, SJF Mendes¹, et al.**¹Universidade CEUMA, São Luís, ²Universidade de São Paulo, ³Universidade Federal do Maranhão, São Luís, ⁴Univeridade Federal de Minas Gerais, Belo Horizonte, Brazil
- 16.15: O13** - Quantitative analysis of an oil based natural compound extracted from plasma. **A Thabit Jones, H Oldham, M Graz.** *Neem Biotech Ltd, South Wales, UK*
- 16.30: O14** -Determination of DQ-798 in rat plasma by UHPLC-MS/MS and its application to a pharmacokinetic study. **Zhi-Feng Zhang^{1,3}, Li Chen¹, Li-Sheng Ding², Liang Liu^{1,3}, Hua Zhou^{1,3}, Pei Luo^{1,3}, Lin-Sen Qing².** ¹State Key Laboratory for Quality Research in Chinese Medicines, Macau University of Science and Technology, ²Chengdu Institute of Biology, ³Faculty of Chinese Medicine, Macau University of Science and Technology, China
- 16.45: O15** -Bioaccessibility of organosulphur compounds from *Allium sativum*. **H Oldham¹, G Marti¹, G Evans¹, L Jones¹, B Viadel², B Ruiz², E Gallego², M Graz¹.**¹Neem Biotech Ltd., South Wales, UK, ²ainia, Valencia, Spain

CROMBIE B

Session 4: Novel sources of bioactives II

Chair – Dr A Alamgeer, Sargodha University

- 16.00: O16** - Phytoestrogenic property of mimosine: a phenylalanine alkaloid. **AKM Moyeenul Hug¹, Kamal Rullah¹, MFFM Aluwi¹, Lam Kok Wai¹, Johnson Stanslas², JamiaAzdina Jamal¹.**
¹Universiti Kebangsaan Malaysia, Kuala Lumpur, ²Universiti Putra Malaysia, Serdang, Malaysia
- 16.15: O17** - Identification and characterisation of phytochemicals activating endogenous cytoprotective mechanisms. **J Harbottle, A Kolb.** *Rowett Institute of Nutrition and Health, University of Aberdeen, Aberdeen, UK*
- 16.30: O18**- Revalorisation of rapeseed pomace (RSP): a study into antioxidant and DNA protective properties (*in vitro*) of a RSP extract and its effects on neurodegenerative disease *C. elegans* models. **F Pohl¹, M Goua¹, G Bermano², WR Russell³, L Scobbie³, P Maciel^{4,5}, A Teixeira-Castro^{4,5}, P Kong Thoo Lin¹.**
¹School of Pharmacy and Life Sciences and ²Centre for Obesity Research and Education, Robert Gordon University, Aberdeen, ³University of Aberdeen, Aberdeen, UK, ⁴University of Minho, Portugal, ⁵Government Associate Laboratory, Portugal
- 16.45 O10** - Beneficial effect of *Phyllanthusamarus* (Euphorbiaceae) on DOCA-salt-induced left ventricle cardiac hypertrophy and endothelial dysfunction in rats. **A N'guessanYao^{1,2}, Z Rasul¹, I Najmanová¹, M Kamagaté², A Said¹, P Chabert¹, C Auger¹, H Die-Kakou², V Schini-Kerth¹.**¹Laboratory of Biophotonics and Pharmacology, University of Strasbourg, France, ²Department of Pharmacology, Felix Houphouët-Boigny University, Cote D'Ivoire

Thursday 28th September 2017

09.00-12.30

CROMBIE B

Theme 3:

Translating novel pathways and mechanisms of action into the clinical use of nutraceuticals and natural product pharmaceuticals

Chair – Koralikja Trosaelj

Co Chair – Jeremy Spencer

09:00-09:45

Keynote Lecture – “The impact of flavonoids on human vascular and cognitive health”

Professor Jeremy Spencer, University of Reading, UK

09.45-10.10

IUPHAR Invited Speaker – *“Marine Natural Products as Starting Points for Drug Discovery and Development”*

Professor Hendrik Luesch, University of Florida, USA

10.10-10.35

IUPHAR: Immunology, metabolism and natural products

Professor Michael Spedding, IUPHAR Secretary General

10:35-11:00

Tea/Coffee Break – Boyd Orr

11:00-12:00

CROMBIE A

Session 5: Translating novel pathways I

Chair – Dr Gemma Barron, Robert Gordon University

11.00: O19 – *Ganoderma triterpenes* inhibit kidney cyst development via down-regulating the Ras/MAPK signaling pathway. **Limin Su¹, Ruoyun Chen², Jemny Lu³, Baoxue Yang¹**. ¹*Peking University, and* ²*Chinese Academy of Medical Sciences, Beijing, China,* ³*Harvard Medical School, Boston, MA, USA*

11.15: O25 – A novel synthetic ω -3 fatty acid epoxide analogue activates breast cancer cell killing *in vitro* and *in vivo*. **M Murray¹, H Choucair¹, S Allison¹, K Bourget¹, Y Chen¹, C Dunstan¹, T Rawling²**. ¹*University of Sydney, Sydney, and* ²*University of Technology Sydney, Sydney, NSW, Australia*

11.30: O27-Chemopreventive activities of kolaviron, a novel bioflavonoid from the seed of *Garcinia cola*: mechanistic perspectives. **O Farombi¹, I Adedara¹, S Abarikwu²**. ¹*University of Ibadan and* ²*University of Portharcourt,*

CROMBIE B

Session 6: Industry Session II

Chair – Dr Francois Sautel, Pierre Fabre

11.00: O22 - The key role of analytical sciences in the discovery and characterization of bioactives from food and nutraceuticals. **A G-G Perrenoud¹, P-M Allard², O Ciclet^{1,2}, D Guillaume², EF Queiroz², J-L Veuthey², J-L Wolfender², D Barron¹**. ¹*Nestlé Institute of Health Sciences, Lausanne,* ²*University of Geneva, Geneva,* ³*University of Lausanne, Lausanne, Switzerland*

11.25: O23 - Drug development with natural products – a journey. **H Oldham**. *Neem Biotech Ltd, Abertillery, UK*

11.50: O24 - Functionality of selected seaweed extracts on selected pharmaceutical applications. **J Brebion¹, B Queguineur¹, M Dehaie¹, S Chopin², ML Leichtnam², F Hennequart¹**. ¹*Algaia SAS, St Lô, France,* ²*Laboratoires Gilbert, Hérouville St Clair, France*

12.15 Developing a modified flavonoid platform for applications in oncology and skincare. **D McPhail**, *CellProTx, Aberdeen, Scotland*

	<p><i>Nigeria</i></p> <p>11.45: O28 - Importance of pro-inflammatory immune lymphocyte Th17 in antitumoral properties of Resveratrol, a polyphenol of wine. E Limagne^{1,3}, M Thibaudin^{1,2}, P Chalons^{1,2}, F Végran^{1,2}, G Mignot^{1,2}, L Apetoh^{1,2}, F Ghiringhelli^{1,3}, D Delmas^{1,2}. ¹University of Bourgogne-Franche Comté, ²Centre de Recherche INSERM U866, and ³Centre Georges François Leclerc, Dijon, France</p>	
12:15 – 14:00	Lunch & Posters – Boyd Orr	
13.00 – 14:00	<p>CROMBIE A</p> <p>Workshop Session 3: <i>Nutraceuticals and TCM's in practice</i></p>	<p>CROMBIE B</p> <p>Workshop Session 4: <i>Regulation and Health Claims</i></p>
14:00-17.45	<p>CROMBIE B</p> <p>Theme 4:</p> <p>Personalized nutrition and natural product medicine: therapeutic evidence and regulatory requirements?</p> <p><i>Chair – Baukje de Roos</i></p> <p><i>Co Chair – Michael Fenech</i></p>	
14:00-14.45	<p><i>Keynote Lecture – “The anticancer activity of the antimalarial artesunate”</i></p> <p>Professor Thomas Efferth, University of Mainz, Germany</p>	
14:45-15:10	<p>ICMAN Invited Speaker – <i>“Personalised nutrition, nutraceuticals and multi-omic diagnostics to precisely prevent ageing at the fundamental genome level and optimise tissue regeneration”</i></p> <p>Professor Michael Fenech, CSIRO, Adelaide, Australia</p>	
15:10-15:35	<p>IUPHAR Invited Speaker – <i>“Repositioning andrographolide for inflammatory diseases: Mapping its mechanistic networks”</i></p> <p>Professor WS Fred Wong, National University of Singapore, Singapore</p>	
15:35-16:00	Tea/Coffee Break – Boyd Orr	
16:00-17.00	<p>CROMBIE A</p> <p>Session 7: Translating novel pathways II</p> <p>Chair – Dr Cyril Auger, University of Strasbourg</p> <p>16.00: O29 - Nrf2/HO-1 pathway alleviates epithelial-mesenchymal transition by inhibiting HMGB1 expression in pulmonary</p>	<p>CROMBIE B</p> <p>Session 8: Translating novel pathways III</p> <p>Chair – Dr Baoxue Yang, Peking University</p> <p>16.00: O33 - Oxidative stress induced both apoptosis and necroptosis in endothelial cells. Xiuping Chen, Wenwen Zhao. <i>University of</i></p>

fibrosis. **Jiao Qu**^{1,2}, **Jian Gao**^{1,2}, **Zhihui Zhang**³, **Wencheng Zhou**⁴, **Wenhui Cui**⁴, **Panpan Zhang**¹, **Cheng Zheng**³. ¹Dalian Medical University and, ²The Second Affiliated Hospital of Dalian Medical University, Dalian China, ³The First Affiliated Hospital of Anhui Medical University, and ⁴Anhui Medical University, Hefei, China

16.15: O30 - Natural compounds affecting neutrophil migration. **H Morad**¹, **S Luqman**^{1,2}, **P McNaughton**¹. ¹King's College London, London, UK, ²CSIR-Central Institute of Medicinal and Aromatic Plants, Lucknow, India

16.30: O31 - Can colonic metabolites be responsible for the hypotensive effect of orally given quercetin? **P Mladenka**, **I Najmanova**, **J Pourova**, **T Migkos**, **M Vopršalová**. Charles University, Czech Republic

16.45: O32 - Curcumin induces expression of 15-hydroxyprostaglandin dehydrogenase in normal gastric mucosa RGM-1 cells and mouse stomach *in vivo*: A potential role of AP-1. **Jeong-Hwa Woo**¹, **Jong-Min Park**², **Young-Joon Surh**², **Hye-Kyung Na**¹. ¹Sungshin Women's University and ²Seoul National University, Seoul, Republic of Korea

Macau, Macau, China

16.15: O34 - Endothelium-independent vasorelaxant effect of *Thymus linearis* via inhibition of phosphodiesterases in porcine coronary artery. **A Alamgeer**¹, **C Auger**², **P Chabert**², **C Lugnier**², **V.B Schini-Kerthe**². ¹University of Sargodha, Pakistan, ²University of Strasbourg, France

16.30: O35 - An anthocyanin-rich blackcurrant extract induced NO-mediated relaxation in coronary artery rings and eNOS phosphorylation in cultured endothelial cells: Role of sodium-glucose cotransporters 1 and 2. **H Lee**¹, **S Khemais-Benkhiat**¹, **P Chabert**¹, **C Auger**¹, **S-H Park**¹, **C Kevers**², **J Pincemail**³, **M-H Oak**^{1,4}, **VB Schini-Kerth**¹. ¹University of Strasbourg, France, ²University of Liège, Belgium, ³CHU of Liège, Belgium, ⁴Mokpo National University, Republic of Korea

16.45: O36 - Endothelium-dependent contractions depending on biased sGC activation: the Janus face of thymoquinone. **SWS Leung**, **CMS Detremmerie**, **PM Vanhoutte**. University of Hong Kong, Hong Kong

E v e n i n g

19.30-23.00: Conference Dinner - Castle Fraser

Friday 29th September 2017

09.00-12.30

CROMBIE B

Theme 5:

Two different worlds? - addressing the convergence between nutraceuticals, TCM and western medicine

Chair – Yongxiang Zhang

Co Chair – Rudolph Bauer

09:00-09:45

Keynote Lecture – “The role of natural products for human health”

Professor Rudolph Bauer, Karl-Franzens University, Graz, Austria

09.45-10.10

ICMAN Invited Speaker – *“West meets East: A systems biology approach to the mechanistic understanding of traditional medicines”*

Professor David Adelson, University of Adelaide, Australia

10.10-10.35

IUPHAR Invited Speaker – *“Nootropic effect and action mechanisms of Ginsenoside Rg1, a candidate of smart drug”*

Professor Juntian Zhang, Chinese Academy of Sciences, China

10:35-11:00

IUPHAR Invited Speaker – *“Salvianolic Acid A, a natural product obtained from Salvia miltiorrhiza alleviates diabetic complications.”*

Professor Guanhua Du, Chinese Academy of Medical Science & Peking Union Medical College, China

Tea/Coffee Break – Boyd Orr

11:30-12:30

CROMBIE A

Session 9: Translating novel pathways IV

Chair - Dr Susan Leung, Hong Kong University

11.30: O37 - Salidroside prevents toxicity induced by delayed treatment of tPA in a rat model of focal cerebral ischemia involving PKA-and PI3K-dependent Akt activation. **Wei Zuo^{1,2}, Dan Mei¹, Naihong Chen²**.¹*Peking Union Medical College Hospital, and* ²*Institute of Materia Medica, Chinese Academy of Medical Sciences and Peking Union Medical College, Beijing, China*

11.45: O38 - The omega-3 EPA:DHA 6:1 formulation improves ageing-related blunted endothelium-dependent relaxations and increased contractile responses in the mesenteric artery: role of oxidative stress and cyclooxygenases. **MA Farooq, L Amoura, S Gaertner, ZRNiazi, S Park, AW**

CROMBIE B

Session 10: TCM and western medicine, Nutraceuticals and lifestyle interactions

Chair – Dr Michael Murray, Sydney University

11.30: O41 - Traditional Chinese medicine Liuwei Dihuang decoction and its new formula, LW-AFC, as promising therapies against Alzheimer's disease: Pharmacological actions and mechanisms. **Wenxia Zhou, Jianhui Wang, Xiaorui Cheng, Yan Huang**. *Beijing Institute of Pharmacology and Toxicology, Beijing, China*. **Chinese Pharmacological Society Invited Speaker**

11.45: O43 - The effects and mechanisms of two main constituents from *Glycyrrhizauralensis* Fisch-induced autophagy in non-small cell lung cancer. **Zheng-Hai Tang, Le-Le Zhang, Xin Chen, Xiuping Chen, Yitao Wang, Jin-Jian Lu**. *University of Macau, Macau, China*

12.00: O44 - Nutritional protection against obesity. **A Kolb, L Petrie**.

	<p>Qureshi, M-H Oak, F Toti, VBSchini-Kerth, C Auger. <i>University of Strasbourg, France</i></p> <p>12.00: O40 - The omega-3 EPA:DHA 6:1 formulation prevents the monocrotaline-induced pulmonary hypertension, pulmonary artery remodeling, endothelial dysfunction, and right ventricular failure in rats. A Said, ZRNiazi, M Burban, R Kessler, M Canuet, F Toti, L Monassier, N Boehm, C Auger, F Meziani, VBSchini-Kerth. <i>Université de Strasbourg, France</i></p> <p>12.15: O42 - MAM, a natural naphthoquinone, induces necroptosis in cancer cells. Xiuping Chen, Wen Sun. <i>University of Macau, Macau, China</i></p>	<p><i>University of Aberdeen, Aberdeen, UK</i></p> <p>12.15: O45 - Validation study of a food frequency questionnaire for the measurement of food consumption in polyphenols: use of a urinary biomarker. Preliminary results. A Hoge², M Guillaume², FADonneau², A Albert², JP Cheramy- Bien¹, J Tabart³, C Kevers³, J Dommes³, RE Ebabe², J-O Defaigne¹, J Pincemail¹. <i>¹CHU of Liège, ²University of Liège Dpt of Public Health Sciences, and ³University of Liège Plant Molecular Biology and Biotechnology Unit, Liège, Belgium</i></p> <p>12.30: O46 – Selenium supplementation and modified high-intensity interval training (m-HIIT) to modulate systemic oxidative stress in sedentary overweight/obese adults: <i>in vitro</i> and <i>in vivo</i> studies. D Leighton¹, M Goua², K Burgess³, G Bermano¹. <i>Robert Gordon University, Aberdeen, UK</i></p>
12:30 – 14:00	Lunch & Posters – Boyd Orr	
13:00 – 14:00	CROMBIE A Workshop Session 5: <i>Developing a database of nutraceuticals and NP-pharmaceuticals</i>	CROMBIE B Workshop Session 6: <i>Social Responsibility and Sustainability of exploiting natural resources</i>
14:00-17.45	CROMBIE B Theme 6: <i>Drug/nutrient/microbiome/lifestyle interactions</i> Chairs – Valérie Schini-Kerth & Cherry Wainwright	
14:00-14.45	<i>Keynote Lecture–“Interaction of polyphenols with gut microbiota; understanding the health effects of polyphenols”</i> Dr Francisco Tomás-Barberán, CEBAS-CSIC, Madrid, Spain	
14:45-15:10	ICMAN Invited Speaker “Cancer chemopreventive effects of natural products with anti-inflammatory and pro-resolving activities” Professor Young-Joon Surh, Seoul National University, South Korea	
15:10-15:35	Closing Ceremony & Prize Giving	

