

Sunday November 25th 2007

ROOM A

16:00 Opening Lectures – Invitation to Polyphenol Research –

16:00-16:30 *Chair: Junji Terao, Japan*
OL1 Polyphenols as antioxidants: Chemistry versus physiology
Cesar G. Fraga, University of California, Davis, USA

16:30-17:00 *Chair: Hiroshi Chuman, Japan*
OL2 The absorption and metabolism of polyphenols
Jennifer L. Donovan, Medical University of South Carolina, USA

*Opening Lectures are sponsored by The University of Tokushima Center of Excellence Program.



17:10 Opening Remarks

17:30 Keynote Lectures

17:30-18:00 *Chair: Hajime Ohigashi, Japan*
KL1 Dietary flavanols and vascular responses
Helmut Sies, Heinrich-Heine University of Dusseldorf, Germany

18:00-18:30 *Chair: Augustin Scalbert, France*
KL2 Recent development of polyphenol research by collaboration between industrial and academic sectors for application in human health
Toshihiko Osawa, Nagoya University, Japan

Monday November 26th 2007

ROOM A

08:30 Symposium 1: Food Chemistry

*Chairs: Andrew L. Waterhouse, USA
Michikatsu Sato, Japan*

08:30 – 08:55

- S01-1** Agricultures influence on food composition: a comparison of flavonoids in organic and conventionally grown tomatoes
Alyson E. Mitchell, University of California, Davis, USA

08:55 – 09:20

- S01-2** The polymerization degree and stereochemistry of procyanidins affect the physiological functions of the cells
Toshihiko Shoji, Asahi Breweries, Ltd., Japan

09:20 – 09:45

- S01-3** Effect of food processing on polyphenol bioavailability
Francisco A. Tomas-Barberan, CEBAS (CSIC), Spain

09:45 – 10:10

- S01-4** Understanding and modulating flavonoid biosynthesis in plants
Christian Dubos, INRA-AgroParisTech, France

10:10 – 10:25

- S01-5** Antioxidation reaction mechanism of polyphenols, caffeic acid and related compounds
Toshiya Masuda, University of Tokushima, Japan

Tea and Coffee Break

10:45 Symposium 3: Bioavailability & Metabolism

*Chairs: Herman Adlercreutz, Finland
Alan Crozier, UK*

10:45 – 11:10

- S03-1** Absorption and metabolism of flavonoids from standard portions of various fruits - impact of processing, dose and subject variation
Paul A. Kroon, Institute of Food Research, Norwich, UK

11:10 – 11:35

- S03-2** Bioavailability of dietary lignans in humans
José L. Peñalvo, University San Pablo CEU, Spain

11:35 – 12:00

- S03-3** Immunochemical characterization of dietary flavonoid metabolites in aorta: Implication in the anti-atherosclerosis effect
Yoshichika Kawai, The University of Tokushima, Japan

12:00 – 12:25

- S03-4** Human and animal studies on the bioavailability and metabolism of dietary phenolics
Alan Crozier, University of Glasgow, UK

12:25 – 12:40

- S03-5** Conversion of procyanidins by human intestinal microbiota
Annett Braune, German Institute of Human Nutrition Potsdam-Rehbruecke, Germany

ROOM B1

08:30

Symposium 2: Allergy & Inflammation

*Chairs: Hisanori Suzuki, Italy
Mari Maeda-Yamamoto, Japan*

08:30 – 08:55

S02-1

Anti-allergic action of O-methylated catechin in green tea
Mari Maeda-Yamamoto, National Institute of Vegetable and Tea Science, Japan

08:55 – 09:20

S02-2

Dietary apple procyanidins inhibit the development of oral sensitization and food allergies
Hiroshi Akiyama, National Institute of Health Science, Japan

09:20 – 09:45

S02-3

Targeting STAT1 by epigallocatechin gallate, myricetin and delphinidin provides efficient protection in ischemia/reperfusion-induced heart injury
Hisanori Suzuki, University of Verona, Italy

09:45 – 10:10

S02-4

Vascular protection by grape-derived polyphenols
Valérie B. Schini-Kerth, Université Louis Pasteur de Strasbourg, France

10:10 – 10:25

S02-5

Modulation of the signaling NF- κ B activation pathway by polyphenols in human intestinal Caco-2 cells
Beatrice Romier-Crouzet, Université catholique de Louvain, Belgium

Tea and Coffee Break

10:45

Symposium 4: Cognitive Function

*Chairs: Jim A. Joseph, USA
Hiramitsu Suzuki, Japan*

10:45 – 11:10

S04-1

Green tea consumption and cognitive function: a cross-sectional study
Shinichi Kuriyama, Tohoku University, Japan

11:10 – 11:35

S04-2

Flavonoids as neurotrophic factors
Pamela A. Maher, The Salk Institute of Biological Studies, USA

11:35 – 12:00

S04-3

Molecular mechanisms underlying the cognitive effects of polyphenols
Jeremy P. E. Spencer, University of Reading, UK

12:00 – 12:25

S04-4

Proteomic profiling for evaluating the neuroprotective mechanism of green tea polyphenols: prospective for neurodegenerative disease therapy
Orly Weinreb, Technion-Israel Institute of Technology, Israel

12:25 – 12:40

S04-5

Curcumin attenuates diabetic encephalopathy in rats: behavioral, biochemical and anti-inflammatory evidences
Anurag Kuhad, Panjab University, India

12:40-13:40 Lunch

ROOM A

13:40

Sponsored Symposium 1: Tea and Health*Chairs: Balz Frei, USA**Francesco Visioli, France*

13:40 – 14:05

SS1-1

Polyphenols in cardiovascular disease: effects on endothelial function

Joseph A. Vita, Boston University School of Medicine, USA

14:05 – 14:30

SS1-2

Recent epidemiologic studies on green tea consumption and cancer risk in Japan

Manami Inoue, National Cancer Center, Japan

14:30 – 14:55

SS1-3

Chemoprevention of human prostate cancer by oral administration of green tea catechins

Saverio Bettuzzi, University of Parma, Italy*Tea and Coffee Break*

15:20 – 15:45

SS1-4Effects of white tea, caffeine and EGCG on 2-amino-1-methyl-6-phenyl-imidazo[4,5-*b*]pyridine (PhIP)-induced tumorigenesis and β -catenin expression**Roderick H. Dashwood**, Linus Pauling Institute, USA

15:45 – 16:10

SS1-5

Does tea reduce body weight and alleviate diabetes?

Chung S. Yang, Rutgers, The State University of New Jersey, USA

16:10 – 16:35

SS1-6

Paradoxical effects of green tea and antioxidant vitamins in diabetes: improved oxidant stress but worsened carbonyl stress

Vincent M. Monnier, Case Western Reserve University, USA

16:35 – 16:55

Panel Discussion

* This symposium is sponsored by Mitsui Norin Co.,Ltd., Kao Co., Linus Pauling Institute, DSM and Te Infre.


ITSUI NORIN CO.,LTD.


ROOM B1

13:40

Symposium 5: Pharmaceuticals

*Chairs: Tsutomu Hatano, Japan
Takashi Yoshida, Japan*

13:40 – 14:05

S05-1 In vitro immunomodulatory effects of polyphenols on macrophages
Herbert Kolodziej, Freie Universitaet Berlin, Germany

14:05 – 14:30

S05-2 Antioxidant, antimalarial and antimicrobial activities of polyphenols from *Punica granatum* L.
Daneel Ferreira, The University of Mississippi, USA

14:30 – 14:55

S05-3 New aspects of green tea catechins in relation to DNA and RNA molecules
Takashi Kuzuhara, Tokushima Bunri University, Japan

14:55 – 15:20

S05-4 Functional evaluation of polyphenols as alternative medicine
Hiroshi Sakagami, Meikai University, Japan

15:20 – 15:35

S05-5 Nasal administration of quercetin liposomes improves anti-depression like effect and enhances memory
Wathita Phachonpai, Khon Kaen University, Thailand

Tea and Coffee Break

ROOM B2, D and E

17:00 – 18:00

Poster Session

Tuesday, November 27th, 2007

ROOM A

08:30

Symposium 6: Metabolic Syndrome

*Chairs: Gary Williamson, UK
Yoshinobu Kiso, Japan*

08:30 – 08:55

S06-1 Tea and cinnamon polyphenols improve the metabolic syndrome
Richard A. Anderson, Beltsville Human Nutrition Research Center, USA

08:55 – 09:20

S06-2 The effect of dietary flavonoids on cardiovascular risk
Kevin D. Croft, University of Western Australia, Australia

09:20 – 09:45

S06-3 Prevention of metabolic syndrome by oolong tea polymerized polyphenols and sesamin
Yoshinobu Kiso, SUNTORY Ltd., Japan

09:45 – 10:10

S06-4 Regulation of adipocyte function by polyphenols-possibility of preventing the metabolic syndrome-
Takanori Tsuda, Chubu University, Japan

10:10 – 10:25

S06-5 Daily consumption of an aqueous green tea extract does not affect vascular reactivity or risk factors for coronary heart disease in healthy men
Jan Frank, Christian Albrechts University, Germany

Tea and Coffee Break

10:45

Symposium 9: Oxidative Stress & Cell Signaling

*Chairs: Barry Halliwell, Singapore
Tsutomu Nakayama, Japan*

10:45 – 11:10

S09-1 Beneficial effects of phenolic acids and their role in antiobesity
Gow-Chin Yen, National Chung Hsing University, Taiwan

11:10 – 11:35

S09-2 Polyphenols and genomic instability: From molecules to man
Susan J. Duthie, Rowett Research Institute, UK

11:35 – 12:00

S09-3 Disruption of defense mechanisms against oxidative damage in nucleic acids and the affect of polyphenols
Yusaku Nakabeppu, Kyushu University, Japan

12:00 – 12:25

S09-4 Modulation of transcription factor NF- κ B by flavan-3 ols and procyanidins
Patricia I. Oteiza, University of California, Davis, USA

12:25 – 12:40

S09-5 Protective effects of quercetin and its human conjugated metabolites on cardiovascular disease
Federica Lodi, Institute of Food Research, Norwich, UK

ROOM B1

08:30

Symposium 7: (Poly)methoxyflavonoids*Chairs: Chi-Tang Ho, USA**Kayoko Shimoi, Japan*

08:30 – 08:55

S07-1

Chemistry and biology of polymethoxyflavones and hydroxylated polymethoxyflavones

Chi-Tang Ho, Rutgers University, USA

08:55 – 09:20

S07-2

Nobiletin treatment and the prevention of atherosclerosis in a mouse model of the disease

Stewart C. Whitman, University of Ottawa, Canada

09:20 – 09:45

S07-3

Versatile effects of citrus polymethoxyflavonoids on inflammatory cells

Akira Murakami, Kyoto University, Japan

09:45 – 10:10

S07-4

Antiproliferative and antimetastatic potential of methoxyflavonoids derived from Artemisia plants

Hye-Kyung Na, Seoul National University, Korea

10:10 – 10:25

S07-5

Flavonoid metabolites mono-O-methylated at the B ring are inhibitors of endothelial NADPH oxidase activity

Tankred Schewe, Heinrich Heine University, Germany*Tea and Coffee Break*

10:45

Symposium 8: Nutrigenomics*Chairs: Roger Corder, UK**Ichiro Matsumoto, Japan*

10:45 – 11:10

S08-1

Impact of sesame lignans affecting gene expression profile in rat liver

Takashi Ide, National Food Research Institute, Japan

11:10 – 11:35

S08-2

Procyanidin regulation of the vascular endothelium - From genes to function

Roger Corder, William Harvey Research Institute, UK

11:35 – 12:00

S08-3

Dietary polyphenols and atherosclerosis - Analysing their mode of action in a mice model by a transcriptomic approach

Dragan Milenkovic, INRA-UMR, France

12:00 – 12:25

S08-4*Ilex paraguariensis* herbal extract-induced changes in the visceral adipose tissue gene expression profile of rats fed high-fat diet**Taesun Park**, Yonsei University, Korea

12:25 – 12:40

S08-5

The effect of quercetin on ER stress at intestinal epithelia

Yayoi Natsume, The University of Tokyo, Japan

12:40-13:40 Lunch

ROOM A

13:40

Symposium 10: Epidemiology & Intervention Study

Chairs: Adrian Franke, USA

Peter C. Hollman, The Netherlands

13:40 – 14:05

S10-1

Polyphenols and health: Evidence from epidemiology and intervention studies

Peter C. Hollman, RIKILT, The Netherlands

14:05- 14:30

S10-2

Prospective studies of green tea and cancer and cardiovascular disease in Japan

Yoshitaka Tsubono, Tohoku University, Japan

14:30 -14:55

S10-3

Soy isoflavones: Bioavailability and breast cancer preventive effects

Adrian A. Franke, Cancer Research Center of Hawaii, USA

14:55 – 15:20

S10-4

Dietary and endogenous redox network: The antioxidant "weight" of flavonoids rich foods

Mauro Serafini, INRAN, Italy

15:20 – 15:35

S10-5

Intake of flavonoids and risk of cancer in Finnish men: The Kuopio Ischaemic Heart Disease Risk Factor Study

Jaakko Mursu, University of Kuopio, Finland

Tea and Coffee Break

ROOM B1

13:40

Sponsored Symposium 2: Anthocyanin

*Chairs: Andrew L. Waterhouse, USA
De-Xing Hou, Japan*

13:40 – 14:05

SS2-1

Bilberry anthocyanins and biological activities
De-Xing Hou, Kagoshima University, Japan

14:05 – 14:30

SS2-2

Biological behaviors of bilberry anthocyanins
Takashi Ichiyanagi, Niigata University of Pharmacy and Applied Life Sciences, Japan

14:30 – 14:55

SS2-3

Stress signaling in and the modulation of age-related behavioral decline via dietary fruit and walnut supplementation
Jim A Joseph, USDA HNRCA at Tufts University, USA

14:55 – 15:20

SS2-4

New perspectives and medical application of the *Vaccinium myrtillus* extract
Ezio Bombardelli, Indena SpA, Italy

* This symposium is sponsored by Natural Way Co., Ltd.



Tea and Coffee Break

Room B2, D and E

16:00 – 17:00

Poster Session

19:00 *Banquet (Grand Prince Hotel Kyoto)*

Wednesday, November 28th, 2007

MAIN HALL

09:30 Joint Keynote Lectures

09:30 – 10:10 *Chair: Toshihiko Osawa, Japan*

JKL1 Polyphenols and inflammatory effects
Andrew L. Waterhouse, University of California, Davis, USA

10:10 – 10:50 *Chair: Shaw Watanabe, Japan*

JKL2 Genomics for food functionality and palatability
Keiko Abe, The University of Tokyo, Japan

10:50 – 11:30 *Chair: Hajime Ohigashi, Japan*

JKL3 Searching for molecular targets of chemopreventive and chemoprotective phytochemicals: Signal transduction network as a road map
Young-Joon Surh, Seoul National University, Korea

11:40 Invited Lecture I (Sponsored by ICoFF)

Chair: Toshikazu Yoshikawa, Japan

11:40 – 12:40

IL1 Molecular mechanism of α -tocopherol action
Angelo Azzi, The Jean Mayer USDA Human Nutrition Center, USA
* Invited Lecture 1 is co-organized with the 19th Meeting of Japanese Vitamin E Research Association.

Lunchboxes will be served.

12:45 Joint Symposium 1: Cancer Prevention I

Chairs: Zigang Dong, USA

Hyong Joo Lee, Korea

12:45 – 13:10

SJ1-1 Targeting inflammation for prevention and treatment of cancer: Food for thought
Bharat B. Aggarwal, The University of Texas, USA

13:10 – 13:35

SJ1-2 Molecular action of cancer-preventive effect of cocoa polyphenols
Hyong Joo Lee, Seoul National University, Korea

13:35 – 14:00

SJ1-3 Green tea polyphenol EGCG signaling through 67kDa laminin receptor
Hirofumi Tachibana, Kyushu University, Japan

14:00 – 14:25

SJ1-4 Molecular targets of polyphenols on cancer prevention
Zigang Dong, University of Minnesota, USA

14:25 – 14:40

SJ1-5 Up-regulation of GADD153 gene with combination of green tea polyphenol and cancer preventive agent is a new mechanism of cancer prevention
Masami Suganuma, Saitama Cancer Center, Japan

ROOM A

11:40

Invited Lecture 2 (Sponsored by ICoFF)*Chair: Junji Terao, Japan*

11:40 – 12:40

IL2

Phytonutrients as antioxidants: Where are we?

Cesar G. Fraga, University of California, Davis, USA*Lunchboxes will be served.*

12:45

Joint Symposium 2: Phytoestrogens*Chairs: Johanna W. Lampe, USA**Mariko Uehara, Japan*

12:45 – 13:10

SJ2-1

Phytoestrogens: Interindividual variation in their metabolism and impact on biologic response

Johanna W.Lampe, Fred Hutchinson Cancer Research Center, USA

13:10 – 13:35

SJ2-2

Dietary soy and risk of breast cancer

Chisato Nagata, Gifu University, Japan

13:35 – 14:00

SJ2-3

Effects of soybean isoflavones on bone health and its safety in postmenopausal Japanese women

Yoshiko Ishimi, National Institute of Health and Nutrition, Japan

14:00 -14:25

SJ2-4

Lignans and human health

Herman Adlercreutz, University of Helsinki, Finland

14:25 – 14:40

SJ2-5

Microbial and dietary factors associated with the equol and 8-prenylnaringenin producer phenotypes

Selin Bolca, Ghent University, Belgium

MAIN HALL

15:00

Plenary Lectures

15:00 -15:30

PL1

Chair: Hitoshi Ashida, Japan
 Are polyphenols good, bad, or indifferent?
Barry Halliwell, National University of Singapore, Singapore

15:30-16:00

PL2

Chair: Kazuki Kanazawa, Japan
 Factors affecting the bioavailability of polyphenols
Gary Williamson, University of Leeds, UK

16:00-16:30

PL3

Chair: Mamoru Isemura, Japan
 Tea and cancer prevention: Mechanisms and human relevance
Chung S. Yang, Rutgers, the State University of New Jersey, USA

16:45-17:15

PL4

Chair: Teruo Miyazawa, Japan
 Evidence for a positive influence of flavanol on vascular health
Carl Keen, University of California, Davis, USA

17:15-17:45

PL5

Chair: Cesar Fraga, USA
 Evaluation of polyphenol safety focused on chromosomal damage and interaction with drugs
Keizo Umegaki, National Institute of Health and Nutrition, Japan

17:45-18:15

PL6

Chair: Makoto Shimizu, Japan
 Unraveling the complex links between dietary polyphenols and health: Think global rather than targeted.
Augustin Scalbert, INRA, France

18:15

Closing Remarks

All participants are invited to come and view the posters which will be displayed in Room B2, D and E from Monday November 26th through Tuesday November 27th. Poster presentations are scheduled for Monday Nov. 26th from 17:00-18:00 and Tuesday Nov. 27th from 16:00-17:00. Authors are requested to stand by their posters during the presentation time indicated below.

Poster Session	Room numbers	Poster numbers	Presentation time	Abstract page
Food Chemistry	E	P001~073	Nov. 26 17:00-18:00	
Allergy & Inflammation	E	P074~079	Nov. 26 17:00-18:00	
Bioavailability & Metabolism	D	P080~141	Nov. 26 17:00-18:00	
Cognitive Function	D	P142~152	Nov. 26 17:00-18:00	
Pharmaceuticals	B2	P153~167	Nov. 26 17:00-18:00	
Metabolic Syndrome	E	P169~197	Nov. 27 16:00-17:00	
(Poly)methoxyflavonoids	E	P198~204	Nov. 27 16:00-17:00	
Nutrigenomics	B2	P205~217	Nov. 27 16:00-17:00	
Oxidative Stress & Cell Signaling	D	P218~262	Nov. 27 16:00-17:00	
Epidemiology & Intervention Study	D	P263~273	Nov. 27 16:00-17:00	
*Cancer Prevention	E	P274~303	Nov. 27 16:00-17:00	
*Phytoestrogens	E	P304~310	Nov. 27 16:00-17:00	

Posters numbered P008, P168, P259, P260, P271, and P272 were withdrawn.

*Cancer Prevention and Phytoestrogens are held as joint sessions with ICoFF2007 at Room E. Please see Supplemental Abstracts in the same categories of ICoFF2007 in Page XX.