

ICP2014 & 8th Tannin Conference Program (latest edition: 26th, August, 2014)

Tuesday, September 2nd 2014

9:30 – 12:30 Registration

12:30 – 13:00	Opening Ceremony
13:00 – 13:45	Opening Lecture (Chair: O. Dangles, University of Avignon) Yoshinori Asakawa (Tokushima Bunri University, Japan) Polyphenols in Bryophytes: Their Structures, Biological Activity, and Bio- and Total Synthesis

Topic 4: Food, Nutrition & Health

Chairs: J. Terao (The University of Tokushima) and T. Tsuda (Chubu University)

13:45 – 14:00	Cédric Saucier (Université Montpellier 1, France) Polyphenomics of Wine: from Molecule Discovery to Rapid Analysis of Wine Polyphenols
14:00 – 14:15	Mudi Alharbi (University of Reading, United Kingdom) Flavanone-rich Orange Juice Consumption Induces Acute Improvements in Human Cognitive Performance: a Randomized, Controlled Clinical Trial
14:15 – 14:30	Satoshi Nagaoka (Gifu University, Japan) Epigallocatechin Gallate and Quercetin Induce a Suppression of PCSK9 Accompanying with an Up-Regulation of LDL Receptor in HepG2 Cells.
14:30 – 14:45	Paula Luis (Vanderbilt University Medical School, USA) Quantification of Curcumin and its Metabolites by Isotope Dilution LC-MS

14:45 – 15:45	Poster Presentation & Coffee Break Core Time: Topic 4 (even number)
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Topic 4: Food, Nutrition & Health

Chairs: J. Terao (The University of Tokushima) and T. Tsuda (Chubu University)

15:45 – 16:30	Plenary Lecture Hideaki Hara (Gifu Pharmaceutical University, Japan) Effects of Anthocyanins on Retinal Diseases
16:30 – 16:45	Sebastian Achterfeldt (Institute of Food Research, United Kingdom) Do Anthocyanins in Purple Tomatoes Reduce the Risk of Cardiovascular Disease?
16:45 – 17:00	Husain Khan (Aligarh Muslim University, India) Anticancer Mechanism of Flavones Involves Mobilization of Cellular Copper Leading to Oxidative DNA Breakage
17:00 – 17:15	Tung-Hu Tsai (National Yang-Ming University, Taiwan) Pharmacokinetics of luteolin-7-O-glucoside and its metabolite luteolin in Rats

17:15 – 17:30	Kazumi Yagasaki (Tokyo University of Agriculture and Technology, Japan) Antidiabetic Effect of Enterolactone, an Intracorporeal Metabolite of Lignans, in L6 Myocytes and Type 2 Diabetic Model db/db Mice
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17:30 – 19:00	Welcome Reception
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Wednesday, September 3rd 2014

Topic 5: Natural Medicine & Kampo

Chairs: H. Noguchi (University of Shizuoka) and T. Fukuyama (Nagoya University)

8:45 – 9:30	Plenary Lecture Ikuo Saiki (University of Toyama, Japan) Curcumin and Cancer Metastasis
9:30 – 9:45	Keisuke Nakamura (Tohoku University Graduate School of Dentistry, Japan) Comparison of Bactericidal Activity of Photo-irradiated Polyphenols
9:45 – 10:00	Milou van de Schans (Wageningen University, Netherlands) Structure-Activity Relationships of Prenylated Flavonoids and Isoflavonoids towards Estrogen and Androgen Receptors
10:00 – 10:15	Aki Kohyama (Tohoku University, Japan) Discovery and Bioorganic Insight into the Synthetic Curcumin Analogues
10:15 – 11:15	Poster Presentation & Coffee Break Core Time: Topic 2, 3 and 5 (even number)

Topic 5: Natural Medicine & Kampo

Chairs: I. Abe (The University of Tokyo) and A. Romani (University of Florence)

11:15 – 11:30	Yoshimi Niwano (Tohoku University, Japan) Cytoprotective Effect of Short-Time Treatment with Proanthocyanidin on Human Gingival Fibroblasts Exposed to Harsh Environmental Conditions
11:30 – 11:45	Shinya Mitsuhashi (Hokkaido University, Japan) Inhibitory Activities of Isolated Polyphenols against Maillard Reaction
11:45 – 12:30	Plenary Lecture Pengfei Tu (Peking University, China) Phenylethanoid Glycosides and their Neuroprotective Actives from Cistanche Plants
12:30 – 14:15	Lunch

Topic 3: Plant & Ecosystem, Lignocellulose Biomass

Chairs: V. Lattanzio (University of Foggia) and T. Mitsunaga (Gifu University)

14:15 – 15:00	Plenary Lecture Gloria Muday (Wake Forest University, USA)
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	Identification of the Roles of Flavonols in Growth and Development in Arabidopsis and Tomato using Genetic Approaches
15:00 – 15:15	Haruo Kawamoto (Kyoto University, Japan) Mechanisms of Monomer and Oligomer Formation in Lignin Pyrolysis
15:15 – 15:30	Karl Stich (University of Technology Vienna, Austria) Gm-apple Plants Harboring Chalcone 3-hydroxylase Show Significantly Higher Resistance against Fire Blight
15:30 – 15:45	Ryo Nakabayashi (RIKEN Center for Sustainable Resource Science, Japan) Oxidative and Drought Stress Tolerance by Flavonoid Overaccumulation in <i>Arabidopsis thaliana</i>
15:45 – 16:00	Toshiaki Umezawa (Kyoto University, Japan) Upregulation of Lignin Biosynthesis in <i>Oryza sativa</i> for Biomass Refining
16:00 – 17:00	Poster Presentation & Coffee Break Core Time: Topic 2, 3 and 5 (odd number)

Topic 6: Tannins & their Functions

Chairs: V. Cheynier (INRA) and T. Hatano (Okayama University)

17:00 – 17:15	Anu Tuominen (University of Turku, Finland) Sylvatiins, A New Family of Acetylglucosylated Hydrolysable Tannins from the Petals of <i>Geranium sylvaticum</i> Show Copigmentation Effect
17:15 – 17:30	(Cancelled)
17:30 – 18:00	Daneel Ferreira (University of Mississippi, USA) Absolute Configuration of Secondary Metabolites via Electronic Circular Dichroism and a Concise Synthesis of Procyanidin A-1
18:00 – 19:00	Tannin Award Ceremony, Award Lecture (Chair: D. Ferreira, The University of Mississippi) Herbert Kolodziej (Freie Universität Berlin, Germany) Epicatechin-based Oligomers and their Contribution to Vasorelaxation in Porcine Coronary Arteries

Thursday, September 4th 2014

Topic 2: Biosynthesis, Genetics & Metabolic Engineering

Chairs: Y. Ozeki (Tokyo University of Agriculture and Technology) and K. Saito (RIKEN CSRS / Chiba University)

8:45 – 9:30	Plenary Lecture Yoshihiro Hase (Japan Atomic Energy Agency, Japan) Efficient Induction of Flower Color Variation with Ion-beam Mutagenesis and Genetic Information
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9:30 – 9:45	Heidi Halbwirth (University of Technology Vienna, Austria) 4-Deoxyaurone Formation in Asteraceae Species
9:45 – 10:00	Jun Shigeto (Kyushu University, Japan) Characterization of Plant Peroxidases which Involved in <i>Arabidopsis</i> Stem Lignification
10:00 – 10:15	Eric Gomes (University of Bordeaux, France) Metabolic Modelling by Flux Balance Analysis Highlights Cell Energy and Redox Status as Metabolic Drivers for Anthocyanin Accumulation in Grapevine GT3 Cells under Nitrogen Starvation
10:15 – 11:15	Poster Presentation & Coffee Break Core Time: Topic 1 and 6 (even number)

Topic 2: Biosynthesis, Genetics & Metabolic Engineering

Chairs: L. Bidel (INRA) and M. Nakayama (NARO)

11:15 – 11:30	Stefan Martens (Edmund Mach Foundation - Research and Innovation Center, Italy) Loss-of-function Mutation of Anthocyanidin Synthase Results in Yellow Pigmented Fruits in <i>Rubus Idaeus</i> L.
11:30 – 12:15	Plenary Lecture Mandy Walker (CSIRO, Australia) Manipulating Flavonoid Synthesis in Grapevine
12:15 – 13:45	Lunch

Topic 3: Plant & Ecosystem, Lignocellulose Biomass

Chairs: K. Fukushima (Nagoya University) and T. Umezawa (Kyoto University)

13:45 – 14:30	Plenary Lecture Laigeng Li (Shanghai Institute of Plant Physiology and Ecology, China) Different Properties of 4CLs in Rice Mediate New Monolignol Biosynthesis Pathways
14:30 – 14:45	Susanne Neugart (Leibniz-Institute of Vegetable and Ornamental Crops Grossbeeren/Erfurt E.V., Germany) Flavonoid Glycoside Concentration in <i>Arabidopsis thaliana</i> is influenced by the UVR-8 Photoreceptor: A Trans-European Arabidopsis Experiment
14:45 – 15:00	Shingo Kawai (Shizuoka University, Japan) Cyclic Diarylheptanoids May Act as Signal Compounds Involved in <i>Alnus sieboldiana</i> - <i>Frankia</i> Actinorhizal Symbiosis

Topic 6: Tannins & their Functions

Chairs: S. Quideau (University of Bordeaux) and T. Hatano (Okayama University)

15:00 – 15:15	Paul Smith (The Australian Wine Research Institute, Australia) Structure-Function Relationships of Grape and Wine Tannins: A Review of Recent Progress and Implications for Winemaking and Sensory
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15:15 – 15:30	Jan Van Der Westhuizen (University of the Free State, South Africa) Analysis of Commercial Proanthocyanidin Extracts from Wattle (<i>Acacia mearnsii</i>) Bark and Quebracho (<i>Schinopsis lorentzii</i> and <i>balansae</i>) Heartwood with Solid State NMR and Electrospray Mass Spectrometry
15:30 – 16:00	Plenary Lecture Takashi Tanaka (Nagasaki University, Japan) Oxidation Mechanism of Polyphenols and Chemistry of Black Tea
16:00 – 17:00	Poster Presentation & Coffee Break Core Time: Topic 4 (odd number)

Topic 1: Chemistry, Physicochemistry & Materials Science

Chairs: N. Mateus (University of Porto) and T. Kan (University of Shizuoka)

17:00 – 17:15	Dawei Li (Zhejiang University, China) New Quality Evaluation of Tea Polyphenols in the Longjing Tea by QAMS
17:15 – 17:30	Marica Engström (University of Turku, Finland) Rapid Qualitative and Quantitative Analysis of Proanthocyanidin Oligomers and Polymers by UPLC-MS/MS
17:30 – 17:45	Masanori Arita (National Institute of Genetics, Japan) Assessing Theoretical Spectra for Flavonoids using MassBank
17:45 – 18:00	Isabelle Pianet (University of Bordeaux, France) A New Eye of the Driving Forces Governing the Interactions between Tannins and Proteins
18:00 – 18:45	Plenary Lecture Vincent Chiang (North Carolina State University, USA) Systems Regulation of Monolignol Biosynthesis for Lignin Quantity and Chemical Structure

Friday, September 5th 2014

Topic 1: Chemistry, Physicochemistry & Materials Science

Chairs: O. Dangles (INRA-University of Avignon) and H. Yamada (Kwansei Gakuin University)

8:45 – 9:30	Plenary Lecture Jean-Luc Wolfender (University of Geneva, Switzerland) The Quest for High Resolution in Natural Crude Extract Profiling : Implication in Natural Product Research and Metabolomics
9:30 – 9:45	Masahito Yoshida (Tohoku University, Japan) Chemical Synthesis of Flavonoid Derivatives via Lewis Base-Catalyzed Tandem Acyl Transfer-Cyclization

9:45 – 10:00	Stephane Quideau (University of Bordeaux, France) Synthesis and Application of Novel Affinity-Based Probes For Investigating Polyphenol-Protein Interactions
10:00 – 10:15	Claus Schneider (Vanderbilt University Medical School, USA) Biochemical Pharmacology of Curcumin
10:15 – 11:15	Poster Presentation & Coffee Break Core Time: Topic 1 and 6 (odd number)

Topic 1: Chemistry, Physicochemistry & Materials Science

Chairs: K. Wähälä (University of Helsinki) and M. Ueda (Tohoku University)

11:15 – 11:30	Kumi Yoshida (Nagoya University, Japan) Chemical Studies of Nemohpilin, a Metalloanthocyanin from Blue Petals of <i>Nemophila menziesii</i>
11:30 – 11:45	Serge Antonczak (Université de Nice-Sophia Antipolis, France) Modelling of a Metabolon Involved in Flavonoid Biosynthesis
11:45 – 12:00	A. Jorge Parola (FCT - Universidade Nova de Lisboa, Portugal) Photochromic and Photoswitching Systems Based on 2-Hydroxychalcones and Respective Flavylium Cations Supported in Different Matrices
12:00 – 12:30	Special Lecture Tetsuo Miyakoshi (Meiji University, Japan) Traditional Culture and Chemistry of Japanese Urushi Lacquer
12:30 – 14:00	Lunch
14:00 – 15:00	Groupe Polyphénols Award Ceremony, Award Lecture (Chair: V. Cheynier, INRA) Olivier Dangles (Université d'Avignon, France) The Physical Chemistry of Polyphenols through Examples Illustrating their Versatile Reactivity in Plant, Food and Humans
15:00 – 16:30	General assembly of Groupe Polyphénols
16:30 – 17:00	Break
17:00 –	Excursion & Gala Dinner

Saturday, September 6th 2014

Topic 4: Food, Nutrition & Health

Chairs: J. Lampe (Fred Hutchinson Cancer Res Ctr) and J. Terao (University of Tokushima)

9:00 – 9:15	David Vauzour (University of East Anglia, United Kingdom) A Combination of Fish Oil Fatty Acids and Flavonoids Reduces Hepatic Steatosis in a Mouse Model of Non-alcoholic Fatty Liver Disease
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9:15 – 9:30	Hanis Yahya (Universiti Kebangsaan Malaysia, Malaysia) The Association between Habitual Polyphenol Intake and Cognitive Performance in Women
9:30 – 9:45	Yoichi Fukushima (Nestle Japan Ltd., Japan) Skin Photoprotection and Consumption of Coffee and Polyphenols in Healthy Japanese Females
9:45 – 10:30	Plenary Lecture Paul A Kroon (Institute of Food Research, United Kingdom) Linking the Bioavailability of Dietary Polyphenols to Mechanisms and Physiological Effects in Humans
10:30 – 11:00	Coffee Break
<p>Topic 4: Food, Nutrition & Health Chairs: D. Vauzour (University of East Anglia) and T. Nakayama (Nippon Veterinary and Life Science University)</p>	
11:00 – 11:15	Sakura Eri Maezono (University of Tsukuba, Japan) In vitro Suppressive Effect of Caffeic acid and Caffeic Acid Phenethyl Ester on Oxidative Stress in B16 Mouse Melanoma and Human Epidermal Melanocytes
11:15 – 11:30	Tania Cifuentes-Gomez (University of Reading, United Kingdom) Factors Affecting Absorption, Metabolism and Excretion of Cocoa Flavanols
11:30 – 11:45	Johanna Lampe (Fred Hutchinson Cancer Res Ctr, USA) Soy Isoflavone Metabolizing Phenotypes and Gut Microbial Community Structure in Women in the United States
11:45 – 12:00	Yuhui Huang (Kyushu University, Japan) Green Tea Polyphenol EGCG Induces Apoptotic Cell Death by Inducing Lipid-raft Clustering through 67 kDa Laminin Receptor in Multiple Myeloma Cells
12:00 – 12:30	Closing Lecture (Chair: T. Fukuyama, Nagoya University) Tadao Kondo (Nagoya University, Japan) Anthocyanin Chemistry in Flower Color Development
12:30 – 13:00	Closing ceremony