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New insights on the complex molecular mechanisms of polyphenols through nutri(epi)genomics

Dragan Milenkovic

► **To cite this version:**

Dragan Milenkovic. New insights on the complex molecular mechanisms of polyphenols through nutri(epi)genomics. 7. International Conference on Polyphenols and Health, Oct 2015, Tours, France. 322 p. hal-02740226

HAL Id: hal-02740226

<https://hal.inrae.fr/hal-02740226>

Submitted on 2 Jun 2020

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7th ICPH

International Conference on Polyphenols and Health



www.icph2015.com

October 27-30, 2015

Congress Center Tours, France
PRELIMINARY PROGRAM

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(INRA - Clermont-Fd)

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OPENING SESSION

- **Pr. G. Williamson** (University of Leeds - UK)
 - Bioavailability of polyphenols as an essential step to understanding efficacy.
- **Pr. A. Cassidy** (University of East Anglia - UK)
 - Dietary flavonoids and healthy ageing - recent advances from epidemiological and clinical research.
- **Pr. C. Franceschi** (University of Bologna - Italy)
 - Inflammaging and epigenetic age
- **Dr. S. Thuret** (Institute of Psychiatry, Psychology and Neuroscience of London – UK)
 - Dietary Modulation of brain plasticity: Implications for Mental Health

Session A: Innovative aspects in polyphenols bioavailability and exposure assessment

- **Pr. J. Duynhoven** (University of Wageningen - NL)
 - Polyphenol metabolism by the gut microbiota and nutrigenetics modeling.
- **Dr. R. Llorach** (University of Barcelona - Spain)
 - Metabolomic approach for improving predictive ability of polyphenols-rich foods exposure through combined multi metabolite models.
- **Pr. H. Xiao** (University of Massachusetts - USA)
 - Effects of biotransformation and food matrix on the bioactivities of polymethoxyflavones.

Session B: Advances in polyphenols targets for obesity, metabolic syndrome and diabetes

- **Pr. I. Ramirez-Sanchez** (Instituto Politécnico Nacional - México)
 - Preclinical and clinical evidence for the beneficial effects of the cacao flavonols on metabolic dysregulations.
- **Pr. RM. Lamuela-Raventos** (University of Barcelona - Spain)
 - Polyphenols and risk of new-onset diabetes in the PREDIMED trial.
- **Pr. JA. Kim** (University of Alabama - USA)
 - A novel mechanism for the anti-diabetic action of green tea polyphenol.
- **Dr. A. Marette** (University of Laval - Canada)
 - Fruit polyphenols improve type 2 diabetes and the metabolic syndrome through alleviating inflammation and modulating the gut microbiota.

Session C: Neuro-cognitive effects of polyphenols: at the cutting edge

- **Pr. J. Spencer** (University of Reading - UK)
 - Title to be defined
- **Dr. B. Shukitt-Hale** (University of Tufts - USA)
 - Polyphenols found in berry fruit improve age-associated changes in cognitive function and brain inflammation
- **Pr. DO. Kennedy** (University Northumbria, UK)
 - Cognitive and cerebral blood-flow effects of polyphenols in humans.

Session D: Recent breakthroughs in cancer prevention

- **Dr. R. Zamora-Ros** (International Agency for Research on Cancer – France)
 - Epidemiological evidence on polyphenols and the risk of gastrointestinal cancers.
- **Pr. K. Shimoï** (University of Shizuoka - Japan)
 - Stress, breast cancer and flavonoids - A role of quercetin conjugate as a beta2-adrenergic receptor antagonist.
- **Pr. K. Brown** (University of Leicester - UK)
 - Advances in cancer chemoprevention – lessons from resveratrol.

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Session E: Update for properties of polyphenols in cardiovascular diseases

- **Dr. C. Heiss** (University of Düsseldorf - Germany)
 - Dietary flavanols, endothelial homeostasis, and cardiovascular health: Results from FP7-FLAVIOLA project.
- **Dr. M. Fito** (Instituto de Investigación Médica de Barcelona - Spain)
 - Beneficial effects of phenolic compounds on HDL functionality
- **Pr. K. Croft** (University of Western Australia – Australia)
 - Cardiovascular benefits of dietary polyphenols.
- **Pr. F. Perez-Vizcaino** (Universidad Complutense of Madrid- Spain)
 - Flavonols, flavanols and their metabolites in the vascular wall.

Session F: Innovative approaches

- **Pr. D. Del Rio** (University of Parma - Italy)
 - Innovative targets and innovative routes in the study of dietary polyphenol putative biological activity.
- **Pr. JF. Stevens** (University of Oregon State - USA)
 - Shotgun Metabolomics and Lipidomics for Discovery of Polyphenol Bioactivity.
- **Dr. RC. Gupta** (University of Louisville - USA)
 - Novel controlled-release technologies to enhance efficacy of polyphenolics.

Session G: New insights into mechanisms of action of polyphenols

- **Dr. D. Milenkovic** (Institut National de la Recherche Agronomique - Clermont-Ferrand - France)
 - New insights on the complex molecular mechanisms of polyphenols through nutri(epi)genomics
- **Pr. Y. Kawai** (University of Tokushima - Japan)
 - Dietary flavonoids induce autophagic degradation in macrophages.
- **Pr. P. Oteiza** (University of California - USA)
 - Procyandin-membrane interactions in the regulation of cell signaling.

Session H: Hot topics in polyphenols and gut microbiota interactions

- **Pr. KM. Tuohy** (Foundation Edmund Mach of Trento - Italy)
 - A role for polyphenols in shaping the structure and function of the gut microbiome.
- **Dr. JC. Espin** (CEBAS-CSIC of Murcia - Spain)
 - Human gut microbiota metabolism of ellagic acid. Interindividual variability for urolithins production is correlated with health status: Cause or consequence.
- **Dr. W. Russell** (Rowett Institute of Nutrition and Health of Aberdeen - UK)
 - Dietary modulation of gut microbial metabolome.

CLOSING SESSION: Innovation and perspectives in polyphenol research: the future is now

- **Dr. A. Scalbert** (International Agency for Research on Cancer - France)
 - The exposome in cancer epidemiology – Polyphenols as a case study.
- **Dr. P. Kroon** (Institute of Food Research of Norwich - UK)
 - Polyphenols, cardiovascular disease and health claims.
- **Dr. J. Doré** (Institut National de la Recherche Agronomique - Jouy en Josas - France)
 - Food-Gut microbiota – host crosstalk (title to be confirmed)
- **Dr. J. Ordovas** (University of Valencia - Spain)
 - Title to be defined