

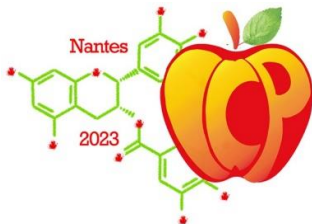
ICP 2023
3-6 July – Nantes, France

XXXI INTERNATIONAL CONFERENCE ON POLYPHENOLS



BOOK OF ABSTRACT





ICP2023

3-6 July

Nantes, France

**XXXI INTERNATIONAL
CONFERENCE ON POLYPHENOLS**



Dear Colleagues

On behalf of the Groupe Polyphénols and the organising committee, it is our great pleasure to welcome you to the XXXI International Conference on Polyphenols (ICP2023) in Nantes, France.

Although ICP has been organised several times in France (Montpellier, Bordeaux, Lille, Strasbourg...) in the past, it is the first time that the conference is organised in the north-west area that encompasses the regions Pays de la Loire, Brittany and Normandy, all three of which offering an extraordinary wealth of cultural and natural heritage.

The scientific programme of XXXI ICP2023 covers all aspects of fundamental and applied polyphenol research. Recent progresses in the different areas will be revealed through 14 plenary lectures including the Opening lecture by Dr. Veronique Cheyrier from INRAE, France and the Polyphénol Group Award lecture by Prof. Cathie Martins from John Innes Centre, UK. In addition, more than 30 oral presentations are given in plenary sessions, while 54 others in parallel sessions give young researchers the opportunity to present their work. Finally, scientific dissemination will also be ensured by the exhibition of over 170 posters distributed into 6 scientific topics relating to polyphenols, 30 of which have been selected for flash presentations in plenary sessions.

ICP2023 brings together more than 330 participants from 40 countries making this conference a truly international event.

In addition to the exciting scientific program, we invite you to take the opportunity to wander around the city centre and visit the many tourist attractions, from the most historic, such as the "Château des Ducs de Bretagne", to the most modern and surprising, such as the "Machines de l'Ile".

We are delighted that you are here in Nantes and we wish you a scientifically productive and most enjoyable stay.

Sincerely yours,

Sylvain GUYOT

President of ICP2023 organising committee.

COMITE D'ORGANISATION

Sylvain GUYOT (President, INRAE BIA)
Liam BARTON (INRAE, BIA)
Angélique BOISSIERE (INRAE BIA)
Catherine CHEZE (Groupe Polyphénols)
Laurence CHEVREL (INRAE BIA)
Agnès GACEL (INRAE BIA)
Dominique GUIBERT (INRAE BIA)
Sophie GUILOIS-DUBOIS (INRAE BIA)
Gildas LE BAIL (INRAE BIA)
Caroline LEFEBVRE (INRAE BIA)
Jean-Michel LE QUERE (INRAE BIA)
Magalie WEBER (INRAE BIA)
Valérie WALLET (INRAE BIA)

COMITE SCIENTIFIQUE

Dr. Denis BARRON (Nestlé, Switzerland, President of "The Groupe Polyphenol")
Dr. Panagiotis ARAPITSAS (Fondazione Edmund Mach, San Michele all'Adige, Italy)
Dr. Baoshan SUN (Shenyang Pharmaceutical University, China)
Dr. Richard BLACKBURN (University of Leeds, United Kingdom)
Dr. Véronique CHEYNIER (INRAE, France)
Dr. Peter CONSTABEL (University of Victoria, Canada)
Pr. Olivier DANGLES (University of Avignon, France)
Dr. Kevin DAVIES (Institute for Plant & Food Research, New Zealand)
Pr. Victor DE FREITAS (University of Porto, Portugal)
Pr. Maria-Teresa ESCRIBANO (University of Salamanca, Spain)
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Pr. Ann HAGERMAN (Miami University, Florida, USA)
Dr. Hideyuki ITO (Okayama Prefectural University, Japan)
Mr. Jean-Michel LE QUERE (INRAE, Le Rheu, France)
Dr. Nuno MATEUS (University of Porto, Portugal)
Pr. Stéphane QUIDEAU (University of Bordeaux, France)
Dr. Juha-Pekka SALMINEN (University of Turku, Finland)
Pr Kristiina WAHALA (University of Helsinki, Finland)
Dr. Aude WATRELOT (Iowa State University, USA)

SUNDAY 2nd JULY 2023

17:00 – 19:05 Reception and poster disposal



MONDAY 3rd JULY 2023

08:00 – 09:15 Reception and poster disposal

09:15 – 09:45 **OPENING CEREMONY** Auditorium

Opening conference - Véronique CHEYNIER

09:45 – 10:35 The wine case: an illustration of polyphenol research driven by analytical chemistry. Auditorium

10:35 – 11:00 Coffee break

TOPIC 1 - STRUCTURE, REACTIVITY & SYNTHESIS

Chairs : S. Quideau – O. Dangles

Auditorium

11:00 – 11:45 **Plenary lecture - Takeo KAWABATA**
Total synthesis of natural glycosides by a catalytic site-selective acylation strategy. **PL.1.01**

11:45 – 12:00 **Aécio DE SOUSA DIAS**
Entering the 4th dimension: ion mobility spectroscopy is the new analytical dimension to characterize and monitor isomeric polyphenol dimers. **O.1.01**

12:00 – 12:15 **Cecilia PINNA**
Synthesis of stilbenoid-bearing affinity probes for identification of target proteins of resveratrol derivatives and dimers. **O.1.02**

12:15 – 12:30 **Panagiotis ARAPITSAS**
What did we learn the last years about the sulfonation of the proanthocyanidins in wine. **O.1.03**

12:30 – 12:45 Flash Poster / Topic 1

12:45 – 14:00 Lunch break

TOPIC 2 - BIOACTIVITY, BIOAVAILABILITY & MICROBIOTA

Chairs : M.T. Escribano-Baillon – D. Gang

Auditorium

| | | |
|---------------|--|----------------|
| 14:00 – 14:45 | Plenary lecture - Begona MUGUERZA Crosstalk between phenolic compounds and biological rhythms. | PL.2.01 |
| 14:45 – 15:00 | Ana REIS When (poly)phenols meet lipids: implications of plasma (nutri)metabolomics on endothelial membrane biophysics. | O.2.01 |
| 15:00 – 15:15 | Atmani-Kilani DINA Interactions with two membrane models of leaf extracts of <i>c. Flammula</i> as underlying mechanisms of anti-inflammatory activities. | O.2.02 |
| 15:15 – 15:30 | Marie-Laurence ABASQ Production of esuletin from 5-o-caffeoylquinic acid by a gut bacterium and its impact on their gut barrier integrity. | O.2.03 |
| 15:30 – 15:45 | Liwei GU Polyphenol-rich cranberry juice for six weeks affected uv-induced erythema, skin conditions, and inflammation in women in a randomized, double-blinded, placebo-controlled, cross-over trial. | O.2.04 |
| 15:45 – 16:00 | Flash Poster / Topic 2 | |
| 16:00 – 16:30 | Coffee break | |

TOPIC 3 – METABOLOMICS, TARGETED ANALYSIS & BIG DATA

Chairs : P. Arapitsas – J.P.Salminen

Auditorium

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|---------------|--|----------------|
| 16:30 – 17:15 | Plenary lecture - Nikolai KUHNERT Children of nature – Metabolomic approaches to decipher polyphenol reactivity in food processing and metabolism. | PL.3.01 |
| 17:15 – 17:30 | Anne-Laure FANCIULLINO How developmental and drought factors affect polyphenols of goji (<i>lycium barbarum</i>) leaves and berries? | O.3.01 |
| 17:30 – 17:45 | Wouter J.C. DE BRUIJN Tea phenolics: sustainable sourcing, auto-oxidation, and rapid analysis by ion mobility ms. | O.3.02 |

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|---------------|---|---------------|
| 17:45 – 18:00 | Giovanna BARON A proteomic approach for unveiling the anti-inflammatory and antioxidant activities of 5-(3',4'-dihydroxyphenyl)- γ -valerolactone, the main metabolite of a standardized extract of grape seed pacs. | 0.3.03 |
| 18:00 – 18:15 | Flash Poster / Topic 3 | |
| 18:15 – 21:00 | Poster session / Topic 1 – 2 – 3 | |
| From 19:15 | Welcome reception | |



TUESDAY 4th JULY 2023

TOPIC 4 – PROCESSING, SENSORY PROPERTIES, SAFETY & REGULATORY

Chairs : V. Cheynier – V. De Freitas

Auditorium

| | | |
|---------------|--|----------------|
| 08:30 – 09:15 | Plenary lecture – Jean-Paul VINCKEN Oxidation of phenolics in food processing: blessing or curse?. | PL.4.01 |
| 09:15 – 09:30 | Aude Watrelot Influence of grape flesh on the retention of tannins from skins and seeds. | O.4.01 |
| 09:30 – 09:45 | Pascal Poupard Reversible haze caused by self-aggregation of oxidised procyanidins in an apple-based beverage. | O.4.02 |
| 09:45 – 10:00 | Flash Poster / Topic 4 | |
| 10:00 – 10:30 | Coffee break | |

10:30 – 12:15 YOUNG SCIENTISTS PARALLEL SESSION 1

TOPIC 1 - STRUCTURE, REACTIVITY & SYNTHESIS

Chairs : S Antonczak – M. Karonen

Room 200

| | | |
|---------------|---|----------------|
| 10:30 – 10:45 | Judith BIJLSMA A (dis)colourful story on iron-phenolic interactions in fortified food | OY.1.01 |
| 10:45 – 11:00 | Annemiek VAN ZADELHOFF Enzymatic oxidative coupling of barley phenolamides | OY.1.02 |

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|---------------|---|----------------|
| 11:00 – 11:15 | Danielle M. VOSS Chemical structure elucidation of novel pigments produced from thermal stress of hydroxyphenyl pyranoanthocyanins | OY.1.03 |
| 11:15 – 11:30 | Julie GALARNEAU Investigation of non-covalent interaction between proteins and proanthocyanidins: a surface-response approach | OY.1.04 |
| 11:30 – 11:45 | Alessio DANIELE The effects of cocoa flavanols on upper and lower limbs during uninterrupted sitting: insights into macro- and microvascular function | OY.1.05 |
| 11:45 – 12:00 | Alice ARGENTERO A terroir comprehensive study on the quality of red wines: towards an exhaustive characterization of polyphenolic compounds | OY.1.06 |
| 12:00 – 12:15 | Cynthia SINYEUE Synthesis of carboxy-flavanone derivatives and investigation of their anti-inflammatory activity: structure-activity relationship study | OY.1.07 |

TOPIC 2 - BIOACTIVITY, BIOAVAILABILITY & MICROBIOTA

Chairs : M.T Engström – S. Suarez

Auditorium

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|---------------|---|----------------|
| 10:30 – 10:45 | M Conceição PEREIRA MACHADO A silverskin extract rich in chlorogenic acids promotes the growth of lactobacillus paracasei | OY.2.01 |
| 10:45 – 11:00 | Juliana Alexandra BARRETO PEIXOTO Inhibition of glut2 gene expression by coffee and silverskin extracts | OY.2.02 |
| 11:00 – 11:15 | Agnieszka KRAWCZYK-LEBEK Glycosylated dihydrochalcones with a chlorine atom obtained by biotransformation and their potential bioactivity | OY.2.03 |
| 11:15 – 11:30 | Yong LI (poly)phenol intake, plant-rich dietary patterns and cardiometabolic health: a cross-sectional study | OY.2.04 |
| 11:30 – 11:45 | Tiago MACEDO Pharmacokinetics of naringenin sulfates in human intestinal cells | OY.2.05 |

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|--|--|----------------|
| 11:45 – 12:00 | Imen GHOZZI Relationship between the structure of the flavone c-glycosides of flax (<i>linum usitatissimum</i> L.) And their biological activities | OY.2.06 |
| 12:00 – 12:15 | Marving MARTIN Predicting non-covalent interactions between polyphenols in biological membranes through molecular dynamics | OY.2.07 |
| TOPIC 6 - BIOMATERIALS, GREEN CHEMISTRY & CIRCULAR BIOECONOMY Chairs : M. Jourdes – C. André | | Room GH |
| 10:30 – 10:45 | Niharika KAUSHAL Polyphenols derived from mandarin processing wastes : flavonoid-nanoparticle-hydrogel as a functional biomaterial | OY.6.01 |
| TOPIC 4: PROCESSING, SENSORY PROPERTIES, SAFETY & REGULATORY Chairs : M. Jourdes – C. André | | Room GH |
| 10:45 – 11:00 | Thais Cristina BENATTI GALLO Effect of endogenous tannins on lipid oxidation in oil-in-water emulsions stabilized by sorghum protein ingredients | OY.4.01 |
| 11:00 – 11:15 | Charlène SIRVINS Phenolic compounds could interfere with secondary amine n-nitrosation in cured meat formulation and digestion | OY.4.02 |
| 11:15 – 11:30 | Alberto ZAVARISE Novel affinity-based purification of plant ppos and enzymatic characterization of strawberry ppo isoforms | OY.4.03 |
| 11:30 – 11:45 | Carlos GUERREIRO Understanding a secondary mechanism in astringency: adsorption of different families of polyphenols to salivary oral models | OY.4.04 |
| 11:45 – 12:00 | Elsa BRANDÃO Polysaccharides from banana and orange peels: from waste to astringency modulation of polyphenol-rich products | OY.4.05 |
| 12:00 – 12:15 | Marina FIDELIS Whole wheat bread supplemented with polyphenol-rich extracts of logging residues from <i>picea abies</i> , <i>pinus dendifora</i> , and <i>abies alba</i> | OY.4.06 |
| 12:15 – 13:45 | Lunch break | |

TOPIC 5 - BIOGENESIS AND FUNCTIONS IN PLANTS & ECOSYSTEMS

Auditorium

Chairs : K. Davis – B. Adamczyk

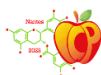
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|---------------|---|----------------|
| 13:45 – 14:30 | Plenary lecture - Li TIAN Deciphering the biosynthesis and regulation of hydrolyzable tannins | PL.5.01 |
| 14:30 – 14:45 | Peter CONSTABEL Disruption of proanthocyanidin biosynthesis in poplar roots and leaves by crispr/cas9 | O.5.01 |
| 14:45 – 15:00 | Christelle ANDRE Mutagenesis of a double bound reductase (mpdbr) gene triggers an alternative stilbene pathway in marchantia polymorpha | O.5.02 |
| 15:00 – 15:15 | C. ODA-YAMAMIZO Heterologous gene expression enables biosynthesis of hydrolyzable tannin precursors in herbaceous model plants | O.5.03 |
| 15:15 – 15:30 | Flash Poster / Topic 5 | |
| 15:30 – 16:15 | Coffee break + Apple juice tasting | |

TOPIC 6 - BIOMATERIALS, GREEN CHEMISTRY & CIRCULAR BIOECONOMY

Auditorium

Chairs : K. Wahala – A. Hagerman

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|---------------|---|----------------|
| 16:15 – 17:00 | Plenary lecture – Florent ALLAIS Sustainable production and modification of p-hydroxycinnamic acids: an access to valuable bio-based functional additives and materials | PL.6.01 |
| 17:00 – 17:15 | Javier Saurina Polyphenols recovery from olive mill waste by using deep eutectic solvents and microwave-assisted extraction | O.6.01 |
| 17:15 – 17:30 | Heidi Halbwirth Enzyme-assisted supercritical fluid extraction (eae-sfe) of dihydrochalcones from apple pomace | O.6.02 |
| 17:30 – 17:45 | Flash Poster / Topic 6 | |
| 17:45 – 19:15 | Poster session / Topic 4 – 5 – 6 | |



WEDNESDAY 5th JULY 2023

TOPIC 2 - BIOACTIVITY, BIOAVAILABILITY & MICROBIOTA

Chairs : N. Mateus – B. Sun

Auditorium

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|---------------|--|----------------|
| 08:30 – 09:15 | Plenary lecture – Cyril AUGER Potential of polyphenol-rich products to prevent and/or improve endothelial dysfunction and senescence: focus on anthocyanins. | PL.2.02 |
| 09:15 – 09:30 | Ricardo Dias Food phenolics, immunity and inflammation: paving the way towards novel functional interventions in celiac disease | O.2.05 |
| 09:30 – 09:45 | Přemysl Mladěnka Metabolites of flavonoids: a pathway for development of novel antiplatelet drugs | O.2.06 |
| 09:45 – 10:00 | Marica T. Engström Resolubilisation of tannin–protein complexes | O.2.07 |
| 10:00 – 10:15 | Ayesha Ulluwis Polyphenols in sugarcane: potential for modulating glycaemic response | O.2.08 |
| 10:15 – 10:45 | Coffee break | |

TOPIC 1 - STRUCTURE, REACTIVITY & SYNTHESIS

Chairs : V. De Freitas – H. Ito

Auditorium

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|---------------|---|----------------|
| 10:45 – 11:35 | Plenary lecture – Olivier DANGLES Opportunities and challenges in the development of anthocyanins as natural dyes | PL.1.02 |
| 11:35 – 11:50 | Ana FERNANDES Micro- and nano-structured anthocyanins - an approach to increase anthocyanins' physico-chemical stability and bioaccessibility | O.1.04 |
| 11:50 – 12:05 | Maria Laura ALFIERI Development of sulfur/selenium-containing antioxidants with multi-defense activity | O.1.05 |
| 12:05 – 12:20 | Takashi ISHIZU Development of high-order functions using tea catechins in water | O.1.06 |
| 12:20 – 13:30 | Lunch break | |

13:30 – 14:30

YOUNG SCIENTISTS PARALLEL SESSION 2

TOPIC 1 - STRUCTURE, REACTIVITY & SYNTHESIS

Auditorium

Chairs : S Martens – C. Renard

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|---------------|--|---------|
| 13:30 – 13:45 | Ana Rita PEREIRA Red color stabilization of anthocyanins with lignosulfonates from the pulp industry | OY.1.08 |
| 13:45 – 14:00 | Ayoub JAA Oxidative coupling of resveratrol and piceid in wines | OY.1.09 |

TOPIC 4: PROCESSING, SENSORY PROPERTIES, SAFETY & REGULATORY

Auditorium

Chairs : S Martens – C. Renard

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|---------------|--|---------|
| 14:00 – 14:15 | Sebastian RINCON Characterisation of phenolic compounds and polysaccharides in strawberry: harvest effects and their correlation with colour stability | OY.4.07 |
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TOPIC 3 – METABOLOMICS, TARGETED ANALYSIS & BIG DATA

Auditorium

Chairs : S Martens – C. Renard

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|---------------|---|---------|
| 14:15 – 14:30 | Pierre BOUILLON Deciphering the red flesh trait in apple by image analysis and metabolite profiling | OY.3.01 |
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TOPIC 2 - BIOACTIVITY, BIOAVAILABILITY & MICROBIOTA

Room 200

Chairs : C. Dufour – A. Napolitano

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|---------------|---|---------|
| 13:30 – 13:45 | Eric O'NEILL Inhibition of non-small cell lung cancer (nsclc) by rosemary extract and its polyphenol carnosic acid is associated with activation of sestrin-2/Ikb1/ampk signalling | OY.2.08 |
| 13:45 – 14:00 | Anne-Laure AGRINIER Camu-camu (<i>myrciaria dubia</i>) decreases hepatic steatosis and improves circulating markers of liver injury in overweight individuals with hypertriglyceridemia | OY.2.09 |
| 14:00 – 14:15 | Igor Piotr TURKIEWICZ Phenolic profile of chaenomeles leaves and their in vitro anticholinergic potential | OY.2.10 |
| 14:15 – 14:30 | Farah DIAB Lipid-lowering and antioxidant effects of polyphenol-enriched extracts from <i>thymbra spicata</i> l. On cellular models of hepatosteatosis and adipogenesis | OY.2.11 |

TOPIC 6 - BIOMATERIALS, GREEN CHEMISTRY & CIRCULAR BIOECONOMY

Chairs : H. Halbwirth – E Dubreucq

Room GH

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|---------------|--|----------------|
| 13:30 – 13:45 | Ana Sofia FERREIRA From green extraction of chestnut by-products to pharmaceutical application | OY.6.02 |
| 13:45 – 14:00 | Ana Margarida SILVA Kiwiberry leaves extract as new eco-friendly cosmetic ingredient: assessment of in-vitro and in-vivo safety and inclusion in a topical formulation development | OY.6.03 |
| 14:00 – 14:15 | Paul-Loup PASQUET Phenolic compounds recovery from brewery waste stream: performance assesement of integrated ultrafiltration and nanofiltration process | OY.6.04 |
| 14:15 – 14:30 | Thomas SEPPERER Mitigation of ammonia loss from cattle manure slurry by tannins and tannin-based polymers | OY.6.05 |

TOPIC 3 – METABOLOMICS, TARGETED ANALYSIS & BIG DATA

Chairs : S. Quideau – K. Wahala

Auditorium

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|---------------|---|----------------|
| 14:30 – 15:15 | Plenary lecture –Juha-Pekka SALMINEN Utilizing new tannin analytics to estimate their structure-activity functions | PL.3.02 |
| 15:15 – 15:30 | Maarit H. LAHTINEN Lignin-rich birch glucuronoxylan as a dietary fiber: the metabolic fate of lignin in a rat model | O.3.04 |
| 15:30 – 15:45 | Norman G. LEWIS Integrated multi-omics analyses of lignin-reduced arabidopsis lines on international space station | O.3.05 |

15:45 – 16:15 **Coffee break****AWARDS**

Chair : D. Barron – President of the Groupe Polyphénols

16:15 – 16:30 GP Grants & Ragaï Ibrahim Prize

16:30 – 17:15 **Cathie MARTINS (GP Award 2023)**
The importance of colour to polyphenol research

17:15 – 18:15

Groupe Polyphénols General Assembly

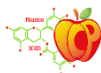
GALA DINNER

18:45

Bus departure from the congress center

19:30 – 23:00
(1:00 am)

Gala Dinner at “Château de La Pigossière”
44860 Pont-Saint-Martin
(<https://www.chateau-de-lapigossiere.com>)



THURSDAY 6th JULY 2023

TOPIC 6 - BIOMATERIALS, GREEN CHEMISTRY & CIRCULAR BIOECONOMY

Chairs : H. Fulcrand – R. Blackburn

Auditorium

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|---------------|--|----------------|
| 08:30 – 09:15 | Plenary lecture - Marie-Pierre LABORIE Tuning polyphenols for applications as thermosetting wood adhesives and printable bio-based inks | PL.6.02 |
| 09:15 – 09:30 | Antoine ADJAOUD Lignin-based benzoxazines: a versatile platform of functional and recyclable polyphenolic materials | O.6.03 |
| 09:30 – 09:45 | Natércia TEIXEIRA Back from the past: polyphenols as eco-innovative mordanting solutions for the textile dyeing industry | O.6.04 |
| 09:45 – 10:00 | Susan KUNNAS Inspired by nature: fiber materials functionalized with condensed tannins of norway spruce bark show antimicrobial efficacy | O.6.05 |
| 10:00 – 10:30 | Coffee break | |

10:30 – 12:15 YOUNG SCIENTISTS PARALLEL SESSION 3

TOPIC 2 - BIOACTIVITY, BIOAVAILABILITY & MICROBIOTA

Chairs : L. Gu – B. Kitchen

Room GH

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|---------------|--|----------------|
| 10:30 – 10:45 | Karolina TKACZ Role of plant phenolic extracts in preventing type 2 diabetes related enzyme inhibition | OY.2.12 |
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| 10:45 – 11:00 | Müzeyyen BERKEL KASIKCI Saliva proteins-tannins interactions and the fate of complexes during digestion | OY.2.13 |
| 11:00 – 11:15 | Silvia Ivonne ARZOLA-RODRIGUEZ Effect of hibiscus sabdariffa and pomegranate eutectic extracts on viability and proliferation of breast cancer cells | OY.2.14 |
| 11:15 – 11:30 | Zongyao HUYAN Polyphenols inducing different levels and pattern of lipid-derived gut microbial metabolites after fermentation of foods | OY.2.15 |
| 11:30 – 11:45 | Nastaran MOUSSAVI Immunomodulating polyphenols from <i>sideritis scardica</i> | OY.2.16 |
| 11:45 – 12:00 | Sailee SHROFF Polyphenol and polyhenol functionalized nanoparticles as antiviral against enteroviruses | OY.2.17 |
| 12:00 – 12:15 | Dhanik RESHAMWALA Hot water extracts of willow (<i>salix</i> spp.) Bark show antiviral activity against both enveloped coronaviruses and non-enveloped enteroviruses | OY.2.19 |

TOPIC 3 – METABOLOMICS, TARGETED ANALYSIS & BIG DATA

Chairs : N.G. Lewis – K. Schwinn

Room 200

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|---------------|--|----------------|
| 10:30 – 10:45 | Luca GARCIA Uhp lc-qqq-ms targeted quantification of syrah red wine phenolic ageing markers during bottle ageing | OY.3.02 |
| 10:45 – 11:00 | Ávaro FERNANDEZ-OCHA The application of untargeted metabolomic approaches for the search of common bioavailable metabolites coming from different bioactive extracts | OY.3.03 |
| 11:00 – 11:15 | Eleonora OLIVA Selective identification of conjugated polyphenol compounds in plant matrices by lc-ms/ms: a multi experiment approach | OY.3.04 |
| 11:15 – 11:30 | Coline BOURSEAU An original non-targeted lc-ms approach for polyphenol oxidation products elucidation in apple juice | OY.3.05 |

TOPIC 5 - BIOGENESIS AND FUNCTIONS IN PLANTS & ECOSYSTEMS

Room 200

Chairs : N.G. Lewis – K. Schwinn

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|---------------|--|----------------|
| 11:30 – 11:45 | Simón MIRANDA Discovery of a dihydrochalcone 3-hydroxylase (dhc3h) from wild malus species that produces sieboldin in vivo by de novo transcriptome assembly and functional analysis | OY.5.01 |
| 11:45 – 12:00 | Alicia JOUIN Crown procyanidins: localisation, evolution and a new biosynthesis approach ? | OY.5.02 |
| 12:00 – 12:15 | Etienne DIEMER Effects of wounding and water loss on the accumulation of caffeoylquinic acids in forced chicory roots | OY.5.03 |

TOPIC 6 - BIOMATERIALS, GREEN CHEMISTRY & CIRCULAR BIOECONOMY

Auditorium

Chairs : E. Salas – C. Saucier

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|---------------|---|----------------|
| 10:30 – 10:45 | Darija SAZDANIC Green extraction of polyphenols from red grape pomace by non-ionic surfactant mixtures | OY.6.06 |
| 10:45 – 11:00 | Luís Carlos CARVALHO Optimizing the removal of phenolic compounds from sugarcane syrup with activated charcoal | OY.6.07 |
| 11:00 – 11:15 | Elena GUGOLE Novel insights into fungal degradation of lignin: role of a flavoenzyme in assisting laccase-mediated oxidations | OY.6.08 |
| 11:15 – 11:30 | Hugo DUARTE Tannin-furan and lignin-furan based foams for insulation and wastewater treatment | OY.6.09 |
| 11:30 – 11:45 | Patrícia CORREIA Formulating with color: development of sustainable cosmeceuticals with anthocyanins and derived pigments | OY.6.10 |
| 11:45 – 12:00 | Julie QUEFFELEC Sustainable extraction of biopolymers and bioactive compounds from the lichen evernia prunastri | OY.6.11 |

TOPIC 2 - BIOACTIVITY, BIOAVAILABILITY & MICROBIOTA

Auditorium

Chairs : E. Salas – C. Saucier

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|---------------|---|----------------|
| 12:00 – 12:15 | Georgios LAZOPOULOS In vitro evaluation of efficacy of cornelian cherry extract against neurodegeneration | OY.2.18 |
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12:15 – 13:30 **Lunch break**

TOPIC 4: PROCESSING, SENSORY PROPERTIES, SAFETY & REGULATORY

Chairs : J.P.Vincken – A Watrelot

Auditorium

13:30 – 14:15 **Plenary lecture – Jérôme LE BLOCH**
Polyphenols in human nutrition: regulatory aspects and risk of novel food classification **PL.4.02**

14:15 – 14:30 **Leon Valentin BORK**
Reactivity of hydroxycinnamic acids in non-enzymatic browning reactions – inhibiting or promoting effect on color formation? **O.4.03**

14:30 – 14:45 **Bhimanagouda PATIL**
Continuous flow high-pressure homogenization retain anthocyanins and maintain blueberry juice quality **O.4.04**

14:45 – 15:05 **Self-service break**

TOPIC 5 - BIOGENESIS AND FUNCTIONS IN PLANTS & ECOSYSTEMS

Chairs : A. Hagerman – P. Constabel

Auditorium

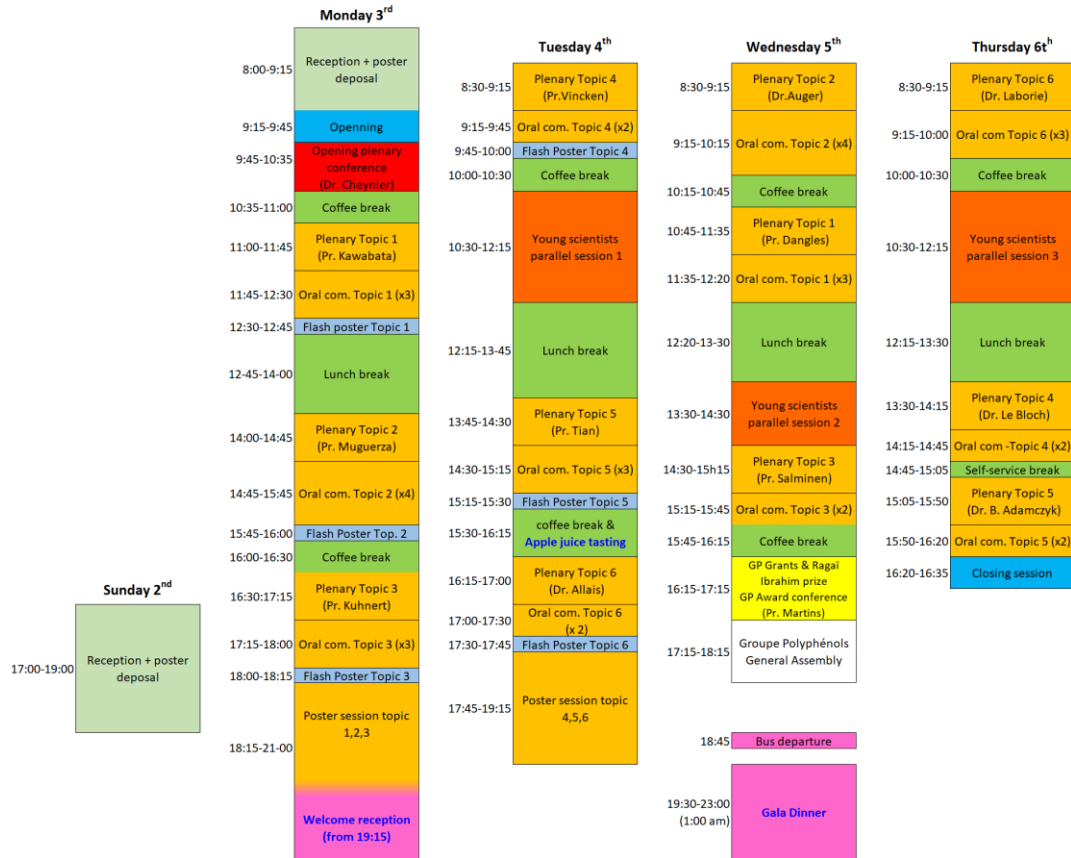
15:05 – 15:50 **Plenary lecture - Bartosz ADAMCZYK**
Tannins and climate change: are tannins able to stabilize carbon in the soil? **PL.5.02**

15:50 – 16:05 **Eirini SARROU**
Exploration of salvigenin biosynthesis in 'sage' plants salvia **O.5.04**

16:05 – 16:20 **Laurence B. DAVIN**
Dirigent protein subfamily members as gateways to polyphenol pterocarpan and isoflavene plant defenses **O.5.05**

16:20 – 16:35 **CLOSING SESSION in Auditorium**

Schedules for ICP2023-Nantes, 3-6 July 2023



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APPLE JUICE TASTING: Tuesday afternoon, at the coffee break you will have the opportunity to taste 3 apple juices made partly from French cider varieties in our INRAE pilot scale platform. Please, **on tuesday, don't forget the descriptive sheet** that you will find in your bag!

TRANSPORTATION IN NANTES: the best way to travel in Nantes is the efficient public transportation network (Tramway & Bus). If you are interested in utilizing public transport, find out special offer to ICP2023 attendees at the conference reception desk.

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