



SIPHAR

Società Italiana di Farmacognosia



SOCIETA' ITALIANA DI FITOCHIMICA

E DELLE SCIENZE DELLE PIANTE MEDICINALI, ALIMENTARI E DA PROFUMO



Società Botanica Italiana

1° Congresso intersocietà sui prodotti vegetali per la salute: il ruolo delle piante medicinali nella medicina moderna



Dipartimento di Scienze del Farmaco
via Marzolo 5, Padova 15-17 Giugno 2023



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Giovedì 15 giugno

12.30-14.00 Registrazione dei Partecipanti

Aula Magna

13.30-14.00 Apertura del Convegno (Saluti delle autorità)

Moderatore:

14.00-14.30 Lettura magistrale: **Botanicals: focus on safety issues** (Fimognari C, Bologna)

14.30- 14.45 **Herbal medicines in Italy: regulatory aspects, critical issues and innovation**
(Assisi A., AIFA, Roma)

14.45-16.15 Sessione 1

AULA MAGNA

Moderatori: Fimognari C. (Bologna)

14.45-15.00 **Antimutagenic and Chemopreventive Properties of 6-(Methylsulfinyl) Hexyl Isothiocyanate on TK6 Human Cells by Flow Cytometry**
Lenzi M (Bologna)

15.00-15.15 **Phenolic composition of a pomace water extract of *Vitis Vinifera* L. and its protective effect in a colorectal cancer *in vitro* and *ex vivo* experimental model**
Di Simone SC, Acquaviva A, Libero ML, Chiavaroli A, Recinella L, Leone S, Brunetti L, Orlando G, Menghini L, Ferrante C (Chieti)

15.15-15.30 **Essential oil of *Lippia alba* (Mill.) and breast cancer**
Borromeo I, De Luca A, Domenici F, Giordani C, Rossi L, Forni C (Roma, Medellin)

15.30-15.45 **Erucin isolated from *Eruca sativa* Mill. seeds, induces apoptosis of human melanoma cells and modulates their aggressiveness *in vitro***
Maresca DC, Conte L, Romano B, Ianaro A, Ercolano G (Napoli)

15.45-16.00 **Synergistic effect of plant extracts and anticancer drugs to improve therapeutic efficacy and overcome drug-induced resistance in cancer models.**
Rigogliuso S, Poma P, Adamo G, Labbozzetta M, Notarbartolo M (Palermo)

16.00-16.15 **The protective role of troxerutin (TX) to counteract anaplastic thyroid carcinoma (ATC) progression**
Paterniti I, Bova V, Casili G, Filippone A, Repici A, Cuzzocrea S and Esposito E (Messina)

14.45-16.15 Sessione 2

Aula 1

Moderatori: Roviezzo F. (Napoli) - Filippini R. (Padova)

14.45-15.00 **The beneficial role of resveratrol in a murine model of lung allergic inflammation**
Cerqua I, Granato E, Rossi A, D'Avino D, Capasso R, Cirino G, Roviezzo F (Napoli)

15.00-15.15 **Anti-inflammatory and healing activity of *Origanum vulgare* essential oil on human keratinocytes cultures**
Avola R, Granata G, C. Geraci C, Napoli E, Graziano ACE, Russo A, Cardile V (Catania)

15.15-15.30 Protective effects of a commercial extract of *Astragalus membranaceus* in in vitro and in vivo models of inflammation

D'Avino D, Cerqua I, Granato E, Di Matteo R, Ullah H, Ialenti A, Daglia M, Roviezzo F, Rossi A (Napoli)

15.30-15.45 Beneficial effects of a topical gel containing xyloglucan and pea protein to treat phenol-induced oral ulcers *in vivo*

Casili G, Cucinotta L, Campolo M, Paterniti I, Lanza M, Filippone A, Basilotta R, Cuzzocrea S, Esposito E. (Messina)

15.45-16.00 Immunomodulatory properties of *Ulva pertusa* extract in a mouse model of DNBS-induced colitis

Filippone A, Mannino D, Ardizzone A, Casili G, Lanza M, Cucinotta L, Campolo M, Esposito E. (Messina)

16.00-16.15 A geranium for the health of lungs: a multi-target herbal product against viral infections

Carloni D. (Siena)

16.15 16.45 *Coffee break*

16.45 -18.30 Sessione 3

Aula Magna

Moderatori: Calderone V. (Pisa) - Dall' Acqua S. (Padova)

16.45-17.00 *Valeriana officinalis*, *Ziziphus jujuba* and *Humulus lupulus* with melatonin: studies about neuromodulatory and protective effects for counteracting sleep disorders

Libero ML, Chiavaroli A, Di Simone SC, Acquaviva A, Nilofar, Brunetti L, Recinella L, Leone S, Orlando G, Menghini L, Ferrante C (Chieti)

17.00-17.15 Evaluation of the efficacy of Honokiol, neolignan from *Magnolia Officinalis* Rehder & E.H Wilson, in an *in vitro* model of microglial cellular senescence

Sasia C, Borgonetti V, Galeotti N. (Firenze)

17.15-17.30 Gamma-oryzanol: a new drug repositioning as a neuroprotective compound

Abate G, Pucci M, Tirelli E, Bonini SA, Mastinu A, Maccarinelli G, Zizioli D, Pezzotta A, Grilli M, Memo M, Uberti D (Brescia, Milano, Novara)

17.30-17.45 Anti-hyperalgesic properties of *Echinacea purpurea* in a mouse model of chemotherapy-induced neuropathy: alkamides versus polyphenols efficacy

Lucarini E, Micheli L, Maggini V, Ciampi C, Gallo E, Bogani P, Fani R, Pistelli L, Di Cesare Mannelli L, De Leo M, Firenzuoli F, Ghelardini C (Firenze, Sesto Fiorentino, Pisa)

17.45-18.00 The transcription factor Nrf2 mediates the effects of *Antrodia camphorata* extract on neuropathological changes in a mouse model of Parkinson's disease

Capra AP, Lanza M, Cucinotta L, Casili G, Filippone A, Basilotta R, Campolo M, Paterniti I, Cuzzocrea S, Esposito E. (Messina)

18.00-18.15 *Cannabis sativa* L. essential oils: anti-inflammatory and neuroprotective potential in a microglia cell model

Pieracci Y, Ascrizzi R, Russo L, Giacomelli C, Martini C, Trincavelli ML, Montanari M, Fulvio F, Bassolino L, Paris R, Pistelli L, Flamini G (Pisa, Bologna)

18.15-18.30 Effects of a chronic treatment with a microdose of the Psilocybe mushroom-derived alkaloid psilocybin on the behavior of C57BL/6J mice

Nasini S, Colognesi M, Tidei S, De Martin S, Banzato M, Mattarei A, Folli F, Pappagallo M, Manfredi PL, Comai S (Padova, Milano, Coral Gables, Montreal)

16.15 -18.30 Sessione 4

Aula 1

Moderatori: Braca A (Pisa) – Statti G. (Rende)

16.45-17.00 Pharmacognostic study of *Artemisia arborescens* (Vaill.) L., essential oil composition and biological activity

Polito F, Papaianni M, Woo S, Malaspina P, Cornara L, De Feo V (Salerno, Napoli, Genova)

17.00-17.15 Anti-virulence activity of abietane diterpenoid from *S. rosmarinus* Spenn. against methicillin-resistant *Staphylococcus aureus*

Iobbi V, Parisi V, Bernabè G, De Tommasi N, Bisio A, Brun P (Genova, Salerno, Padova)

17.15-17.30 Isolation of diterpenes from *Salvia officinalis* L. and their antimicrobial activity and mechanism

Donadio G, Nocera R, Dal Piaz F, De Tommasi N (Salerno)

17.30-17.45 The phytobiome of the medicinal plant *Origanum vulgare*: linking the bacterial endophytic communities to the essential oil

Semenzato G, Del Duca S, Vassallo A, Ascrizzi R, De Leo M, Pistelli L, Mucci N, Greco C, Padula A, Palumbo Piccionello A, Puglia AM, Emiliani G, Maggini V, Firenzuoli F, Fani R (Firenze, Pisa, Palermo)

17.45-18.00 New sesquiterpenes from *Zanthoxylum rhoifolium* Lam barks

Di Stasi M, De Tommasi N, Parisi V, Hernandez V, Braca A (Pisa, Salerno, Merida)

18.00-18.15 Metabolic profile of green extractions of *Schisandra chinensis* fruits and evaluation of Tyrosinase inhibitory activity

Polcaro L, Piacente S, Masullo M (Salerno)

18.15-18.30 ¹H NMR-based metabolomic analysis of the lichen *Cladonia foliacea*.

Nozella AH, Debiassi L, Gheza G, Trincia S, Vallese C, Nascimbene, Ferruccio Poli F, Mandrone M (Bologna)

18.45 Cocktail di benvenuto

Venerdi 16 giugno

Aula Magna

Moderatore: Conforti C. (Rende)

9.00-9.30 Lettura magistrale: **Plant biodiversity to promote health and nutrition: re-discovering ancient varieties inside the *Prunus* genus (De Leo M, Pisa)**

9.30-10.45 Sessione 5

Aula Magna

Moderatori: Froidi G. (Padova) - Conforti C. (Rende)

9.30-9.45 **Application of wood distillate boosts antioxidant properties of *Solanum lycopersicum* L. (red tomato)**

Fedeli R, Marotta L, Panti A, Carullo G, Fusi F, Gemma G, Butini B, Saponara S, Vannini A, Campiani G, Loppi S (Siena, Napoli)

9.45-10.00 **Wild roses of the Apennines: metabolomic analysis and antioxidant activity**

Trincia S, Tarozzi C, Nozella HA, Mandrone M, Chiochio I, Mossetti U, Poli F (Bologna)

10.00-10.15 **Chemical composition and biological activity of essential oils and crude extract from apical shoots and resin of *Pinus nigra* subsp. *laricio* Poiret.**

Fucile M, Perri M, Marrelli M, Zicarelli L, Lupia C, Statti G, Conforti F (Rende, Castelluccio Superiore)

10.15-10.30 **Pharmacognostic evaluation of *Monarda didyma* L. “summitas cum floribus” growing in Trentino, Northern Italy**

Smeriglio A, Trombetta M, Ingegneri M, Germanò MP, Miori L, Battistini G, Malaspina P, Cornara L (Messina, Baselga di Pinè, Genova)

10.30-10.45 **A microemulsion approach to address the solubility and cutaneous bioavailability issues of *Stachys parolinii* extract**

Vanti G, Milonaki E, Anagnostou M, Tomou E.-M, Grifoni L, Bergonzi MC, Karioti A, Skaltsa H, Bilia AR (Firenze, Atene, Thessaloniki)

Venerdi 16 giugno

Aula 1

9.30-10.45 Sessione 6

Moderatori: Vitalone A. (Roma) – Esposito E. (Messina)

9.30-9.45 **Effects of an oral solution containing xyloglucan and pea proteins on a murine model of gastroesophageal reflux disease**

Ardizzone A, Mannino D, Casili G, Campolo M, Paterniti I, Lanza M, Filippone A, Repici A, Bova V, Cuzzocrea S, Esposito E (Messina)

9.45-10.00 **Glucorucin, a glucosinolate contained in *Eruca sativa* Mill., prevents the metabolic syndrome in mice fed a high-fat diet: modulation of the browning process and the irisin pathway**

Flori L, Testai L, Miragliotta V, Lazzarini G, Piragine E, Citi V, Pagnotta E, Matteo, Righetti L, Di Cesare Mannelli L, Ghelardini C, Martelli A, Calderone V (Pisa, Bologna, Firenze)

10.00-10.15 **A *Cynara cardunculus* L. leaves standardized extract promotes *in vitro* intestinal epithelial differentiation and barrier function through activation of AMPK/SIRT1 pathway.**
Muscarà C, Salamone FL, Molonia MS, Saija A, Cimino F, Speciale A (Messina)

10.15-10.30 ***Glycyrrhiza glabra* L. extracts: phytochemical characterization and inhibition of pro-inflammatory cytokines and JAK/STAT signalling pathway in LPS-stimulated RAW 264.7 cells**
Perri M.R., Marrelli M., Zicarelli L., Conforti F., Statti G. (Rende)

10.30-10.45 **Investigation of olive leaf extracts from pruning wastes**
Vaccaro F, Bainsi G, Cappellucci G, Miraldi E, Biagi M (Siena)

10.45-11.45 Coffee break e sessione poster

11.45-13.15 Sessione 7

Aula Magna

Moderatori: Borrelli F. (Napoli) – Milella L. (Potenza)

11.30-11.45 **Sulforaphane promotes apoptotic and ferroptotic cell death in leukemia cells**
Greco G, Schneckeburger M, Catanzaro E, Turrini E, Ferrini F, Sestili P, Diederich M, Fimognari C (Bologna, Lussemburgo, Ghent, Rimini, Urbino, Seul)

11.45-12.00 **Cannabidiol loaded in liposomal formulation enhances antigenotoxic effect against camptothecin**
Grifoni L, Brunha C, Sendão T, Dias A, Oliveira R, Bilia AR (Firenze, Portogallo)

12.00-12.15 **Zosterabispheone C, a new diarylheptanoid heterodimer from the seagrass *Zostera marina*, shows cytotoxic effects in colon cancer**
De Cicco P, Cacciola NA, Amico R, Grauso L, Scarpato S, Mangoni A, Borrelli F (Napoli)

12.15-12.30 **Perillaldehyde from *Ammodaucus leucotrichus* as a new ferroptosis inducer with relevant clinical potential**
Turrini E, Catanzaro E, Maffei F, Guerrini A, Krysko DV, Fimognari C (Rimini, Ghent, Ferrara),

12.30-12.45 ***Acmella oleracea* extracts from *in vitro* seedlings: chemical characterization and a novel preclinical application on the acute treatment of chemotherapy-induced neuropathy**
Zonfrillo B, Bellumori M, Firenzuoli F, Maggini V, Di Cesare Mannelli L, Ghelardini C, Mulinacci N, Innocenti M (Firenze)

12.45-13.00 **Evaluation and characterization of the cytotoxic profile of two compounds extracted from the Caribbean sponge *Smenospongia aurea* in a panel of human cancer cell lines**
Pellicioni V, Greco G, Costantino V, Teta R, Esposito G, Fimognari C (Bologna, Napoli)

13.00-13.15 **Antiproliferative effects of Cannabis with low content of tetrahydrocannabinol: potential in the treatment Psoriasis**
Rizzi L, Pellati F, Bresciani E, Molteni L, Meanti R, Corsi L, Torsello A (Milano)

Moderatori: Rossi A. (Napoli) – Sacchetti G. (Ferrara)

11.30-11.45 Phytochemical and pharmacological investigation of industrial hemp inflorescences by-products

Acquaviva A, Di Simone SC, Libero ML, Nilofar, Chiavaroli A, Recinella L, Leone S, Brunetti L, Orlando G, Menghini L, Ferrante C (Chieti, Granada, Pescara)

11.45-12.00 *Gynostemma pentaphyllum* (var. *Ginpent*) protects against acute peripheral inflammation and motor alteration

Mac Sweeney E, Bonini SA, Premoli M, Maccarinelli ¹, Zhang L, Lucini L, Memo M, Mastinu A (Brescia, Piacenza)

12.00-12.15 *Artocarpus tonkinensis* protects mice against collagen-induced arthritis: decreases Th17 cell function and suppresses Osteoclastogenesis

Adorisio S, Ayroldi E, Delfino DV (Perugia)

12.15-12.30 Anti-oxidant and anti-inflammatory effects of ellagic and punicic acid in an in vitro model of cardiac fibrosis

Pallio G, Minutoli L, Irrera N, Squadrito F (Messina)

12.30-12.45 Essential Oil Composition, Antioxidant Activity and Leaf Micromorphology of Five Tunisian Eucalyptus Species

Romano B, Maresca DC, Polito F, Cornara L, De Feo V, Ercolano G, Ianaro A (Napoli, Salerno Genova)

12.45-13.00 Bergamot polyphenols improve hepatic inflammation, and reverse altered thalamus metabolism and brain structure in a mouse model of non-alcoholic fatty liver disease

Musolino V, Cardamone A, Coppoletta AR, Nucera S, Ruga S, Bosco F, Guarnieri L, Macrì R, Scarano F, Bava I, Caminiti R, Lorenzo F, Tucci L, Lupia C, Serra M, Mollace R, Maiuolo J, Carresi C, Muscoli C, Palma E, Gliozzi M, Mollace V (Catanzaro)

13.00-13.15 Identification of an induced-neurodegeneration preclinical model for the study of plant extracts with anti-glycation activity

Pucci M, Abate G, Tirelli E, Mastinu A, Memo M, Uberti D (Brescia)

13.15-14.30 Light lunch

Venerdi 16 Giugno

Aula Magna

Moderatore: Calapai G. (Messina)

14.30-15.00 Lettura magistrale: **EU Regulatory framework on food supplements (Di Giorgi V, Ministero della Salute, Roma)**

15.00-16.45 Sessione 9

Moderatori: Biagi M (Siena) – Tagliatela O. (Napoli)

15.00-15.15 **Phytotherapy in the treatment of chronic low-grade inflammation**
Santagà D. (A.V.D. Reform)

15.15-15.30 **Tested to reach the highest quality: Labomar's approach for ensuring quality, safety and efficacy of nutraceutical products**
Amadio E., Bassetto R, Perin S, Zanatta S (Labomar SPA)

15.30-15.45 INDENA (Milano)

15.45-16.00 **Valorization of by-products from agro-foods for pharmaceutical, cosmetic, nutraceutical applications**
Terenzi C., Medri F, Davani L, Montanari S, De Simone A, Andrisano V (Rimini, Torino)

16.00-16.15 **Nutraceutical and nutritional composition of an Italian wild pears (*Pyrus communis* var. Zingaro) fruits at different maturation stages**
Alderotti F., Dos Santos Nascimento LB, Centritto M, Sobolev AP, Gori A, Brunetti C (Firenze, Monterotondo)

16.15-16.30 **Pharmacovigilance of cannabidiol for medicinal use and as a food supplement**
Calapai F., Ammendolia I, Cardia L, Currò M, Cacciola A, Esposito E, Calapai G, Mannucci C (Messina)

16.30-16.45 **Potential efficacy of *Alliaceae* and *Brassicaceae* edible plants in patients with type 2 diabetes: a systematic review and meta-analysis of clinical trials**
Piragine E., Petri D, Martelli A, Lucenteforte E, Calderone V (Pisa)

16.45-17.00 **Development nutraceutical ingredients to slow biological aging**
Campisi M, Cannella L., Baumann J, Pavanello S (Padova, Buchs)

17.00-17.15 *Coffee break*

17.15 -18.45 Tavola rotonda Editors in Chief

Moderatore: De Tommasi N. (Salerno)

Phytotherapy research Izzo AA
Fitoterapia Tagliatela-Scafati O.
Planta medica Braca A.

20.30 Cena

Sabato 17 giugno

Aula Magna

9.00-10.30 Sessione 11

Moderatori: Pistelli L. (Pisa) – Mastinu A. (Brescia)

9.00-9.15 Enhancement of pomegranate peel by recovering the phenolic compounds: one-pot extraction with hydrolysis

Ugolini T, D'Agostino S, Cecchi L, Khatib M, Innocenti M, Mulinacci N (Firenze)

9.15-9.30 Green biotechnology for human feeding

Dalla Costa V, Piovan A, Filippini R (Padova)

9.30-9.45 The chemical assessment of the glucosinolate-myrosinase system: analytical challenges and technical pitfalls

De Nicola GR (Pescia)

9.45-10.00 Environmental impact of phytoextracts: the case of *Melia azedarach* L.

Popescu VS, Mac Sweeney E, Abate G, Pucci M, Tirelli E, Zhang L, Peron G, Gianoncelli A, Ribaud G, Bulgari D, Gobbi E, Lucini L, Uberti D, Memo M, Mastinu A (Brescia, Piacenza, Milano)

10.00-10.15 *Acmella oleracea* (“jambù”, Asteraceae): a spilanthol-rich source for the development of effective green insecticides and acaricides

Ferrati M, Spinozzi E, Baldassarri C, Cappellacci L, Benelli G, Petrelli R, Maggi F (Camerino)

10.15-10.30 *Carlina acaulis*, a traditional medicinal plant for insect vectors management

Spinozzi E, Ferrati M, Baldassarri C, Maggi F, Pavela R, Benelli G, Aguzzi C, Zeppa L, Cappellacci L, Palmieri A, Petrelli R (Camerino, Praga)

Sabato 17 giugno

Aula 1

9.00-10.30 Sessione 12

Moderatori:

9.00-9.15 *Cynara cardunculus* L. suppresses adipogenesis in 3T3-L1 adipocytes via AMPK signaling pathway activation

Molonia MS, Salamone FL, Speciale A, Muscarà C, Saija A, Cimino F (Messina)

9.15-9.30 Walnut (*Juglans regia* L.) and chestnut (*Castanea sativa* mill.) leaves as precious by-products for the treatment of skin aging induced by environmental pollution

Baini G, Cappellucci G, Biagi M, Miraldi E (Siena)

9.30-9.45 Assessment of antidiabetic, anti-obesity, and neuroprotective potential of two *Cannabis sativa* L. extracts

Mazzara E, Petrelli R, Mustafa AM, Caprioli G, Dall'Acqua S, Sut S, Nuñez S, López V, Cásedas G, Moliner C, Bonacucina G, Maggi F, Cespi M (Camerino, Padova, Zaragoza)

9.45-10.00 *Humulus lupulus* L. not only for beer! investigation of the bitter taste receptors involved in its mechanism of action

Lela L, Ponticelli M, Russo D, Faraone I, Kioussi C, Stevens JF, Milella L (Potenza, Corvallis)

10.00-10.15 Addition of polyphenolic extracts of *Myrtus communis* and *Arbutus unedo* fruits to whey: valorization of a common dairy waste product as a functional food

Detti C, Nascimento LB, Gori A, Vanti G, Amato G, Nazzaro F, Bilia AR, Ferrini F, Mauro Centritto, Brunetti C (Firenze, Avellino)

10.15-10.30 Central sardinia's (italy) native food plant, *Lactuca longidentata*: an exploration of its health benefits

Nilofar, Di Simone SC, Flores GA, Acquaviva A, Libero ML, Orlando G, Menghini L, Ferrante C (Chieti)

10.30-11.30 Coffee break e sessione poster

11.30-13.15 Sessione:

Aula Magna

Moderatori: Montopoli M. (Padova)

11.30-11.45 Safety and Efficacy of Red Yeast Rice Phytocomplex and Lovastatin: a Comparative Analysis

Rigillo G, Bainsi G, Miraldi E, Pani L, Tascetta F, Biagi M (Modena-Reggio Emilia, Siena)

11.45-12.00 The flavonoid luteolin attenuates colitis and M1 macrophage activation via TRPM8

Cicia D, Biscu F, Ferrante C, Iannotti FA, Nanì MF, Lucariello G, Amico R, Orlando G, Matteoli G, Capasso R, Izzo AA, Pagano E. (Napoli, Leuven, Chieti)

12.00-12.15 Naringenin promotes lysosomal regeneration: a potential therapeutic strategy for Hereditary Spastic Paraplegia

Guarato G, Feltrin S, Dianin F, Vantaggiato C, Napoli B, Gumeni S, Orso G (Padova, Lecco, Atene)

12.15-12.30 *In vivo* effect of sumac fruit (*Rhus coriaria* L.) on skin inflammation

Sangiovanni E, Fumagalli M, Pelin M, Piazza S, Maranta N, Pozzoli C, Martinelli G, Sosa S, Dell'Agli M (Milano)

12.30-12.45 A novel integrated *in vitro/in silico* approach to investigate species of ethnobotanical interest with wound healing and immunomodulatory activities

Cappellucci G, Bainsi G, Vaccaro F, Miraldi E, Biagi M (Siena)

12.45-13.00 Modulation of neuroinflammation by essential oils obtained from different hemp varieties

Barbalace MC, Freschi M, Rinaldi I, Mazzarra E, Petrelli R, Maraldi T, Malaguti M, Maggi F, Hrelia S, Angeloni C (Bologna, Camerino, Modena)

13.00-13.15 Bio-pharmacological properties of *Pelargonium quercetorum* Agnew extracts: focus on potential application as agents against inflammatory bowel diseases

Chiavaroli A, Libero ML, Di Simone SC, Acquaviva A, Nilofar, Recinella L, Leone S, Brunetti L, Cicia D, Izzo AA, Orlando G, Zengin G., Menghini L, Ferrante C (Chieti, Napoli, Konya)

13.15 Premiazione e Chiusura del Convegno

SESSIONE POSTER VENERDI 16 GIUGNO ORE 10.45-11.45

Sessione 1

Moderatore De Francia S. (Torino)

P1. Characterization of polyphenolic composition in *Leccinum Scabrum* and *Leccinum Versipelle* mushrooms

Medri F, Terenzi C, Davani L, Montanari S, De Simone A, Andrisano V (Rimini, Torino)

P2. Chemical characterization of the volatile and non-volatile profiles of *Achillea nana* L. aerial parts by SPME-GC/MS, GC/MS and HPLC/MS-MS, techniques

Argentieri MP, Garzoli S, Meroni G, Martino PAM, Soggiu A, Bonizzi L, Zecconi AA, Iriti M, Vitalini S (Bari, Roma, Milano)

P3. Chemical characterization of the volatile compounds of 12 species within the genus *Salvia* L. cultivated at the Botanic Garden of Pisa and study of the relationship with their geographical origin.

Bozzini MF, Pieracci Y, Peruzzi L, D'Antraccoli M, Ciampi L, Pistelli L, Flamini G (Pisa)

P4. *Calamintha nepeta* Savi: ethnobotany, phytochemistry and pharmacological properties

Lupia C, Marrelli M, Perri MR, Zicarelli L, Conforti F, Duca A, De Biasio F, Canora G, Salamone E, Statti G (Rende, Lauria)

P5. The synergistic inhibitory effect of fennel, lavender and oregano essential oils on nitric oxide production: an optimization by a mixture design methodology

Marrelli M, De Luca M, Perri MR, Zicarelli L, Statti G, Conforti F (Rende)

P6. Chemical composition and bioactivities of *Rosmarinus officinalis* L. cultivated and wild extracts in Campania region

Francolino R, Martino M, Caputo L, Amato G, Chianese G, Formisano C, De Feo V, Ercolano G, Ianaro A, De Martino L (Salerno, Napoli)

Sessione 2

Moderatore: Testai L (Pisa)

P7. Re-evaluation of Tuscan *Crocus sativus* L. wastes by metabolomic fingerprint and *in vitro* antiviral test against SARS-CoV-2

Cioni E, Di Stasi M, Iacono E, Luminare AG, Gambineri F, Bazzichi A, Lai M, De Leo M, Braca A, Pistello M (Pisa, Siena)

P8. Coumarins From Ethyl acetate Extract of Gum Ammoniacum

Kharatha M, Alilou M, Donadio G, De Tommasi N, Moridi Farimani M (Tehran, Innsbruck, Salerno)

P9. Moderate deficit irrigation can modulate the secondary metabolites of *Pistacia lentiscus* L. fruits during ripening

Muti L, Vanacore D, Brunetti C, Dos Santos Nascimento L, Goracci G, Alderotti F, Detti C, Bilia AR, Ferrini F, Gori A (Firenze, Sesto Fiorentino)

P10. Isolation and biological evaluation of *ent*-pimarane diterpenoids from *Lavandula pubescens* Decne

Pouramin S, Parisi V, Bader A, Rosa E, De Tommasi N (Salerno, Makkah)

P11. Phytochemical characterization and biological activities of *Stenomesson miniatum* bulb extract, a medicinal plant of the Andes

Lianza M, Fimognari C, Nuzillard JM, Renault JH, Antognoni F., Bonvicini F, Poli F, Greco G, Turrini E (Rimini, Reims, Bologna)

P12 Phytochemical profile, cytotoxicity and redox state modulatory activities of olive leaf (*Olea europaea* L.) enriched extract in prostate cancer cell lines

Malfa GA, Luca T, Siracusa L, Di Giacomo C¹, Bianchi S, Sergi A, Castorina S, Acquaviva R (Catania)

P13. Cytoprotective properties of the ethyl acetate extracts from *Anacyclus maroccanus* Ball. e *Anacyclus radiatus* Loisel aerial parts

Percaccio E, Sissi S, Vitalone A, Mazzanti G, Markouk M, Di Giacomo S, Di Sotto A (Roma, Marrakech)

Sessione 3

Moderatore: Smeriglio A. (Messina)

P14. Use of phytotherapics and nutraceuticals in colorectal cancer patients undergoing chemotherapy.

Di Grazia D, Giacchi D, Gaspari M, Allegra S, Armando T, Storto S, Chiara F, De Francia S, Mussa MV (Torino)

P15. The beneficial effect of glucoraphanin in an *in vitro* model of sarcopenia

Esposito E, Mitidieri E, Micheli L, Ciampi C, Cirino G, Ghelardini C, Di Cesare Mannelli L, Sorrentino R, d'Emmanuele di Villa Bianca R (Napoli, Firenze)

P16. Phytotherapy use to treat chemotherapy-related side effects in lung cancer patients

Gaspari M, Bettonte G, Di Grazia D, Allegra S, Armando T, Storto S, Chiara F, De Francia S, Mussa MV (Torino)

P17. Anti-proliferative and anti-migratory potential of *Glycyrrhiza glabra* L. extracts on breast and gynecological cancer cell lines

Perri MR, Marrelli M, Zicarelli L, Conforti F, Statti G (Rende)

P18. Pigmented potatoes and their preventive effect against LPS-induced inflammation in THP-1 macrophages

Tocaceli M, Marinelli A, Bassolino L, Pacifico D, Parisi B, Nicoletti F, Lo Scalzo R, Mandolino G, Petroni K (Milano, Bologna)

P19. *In vitro* evaluation of the neuroprotective effect of *Achillea millefolium* L. flowering part extract

Freschi M, Barbalace MC, Angeloni C, Malaguti M, Hrelia S (Bologna)

Sessione 4

Moderatore: Paterniti I. (Messina)

P20. *In vitro* protective effects of a standardized extract of *Opuntia ficus indica* L. and *Olea europaea* L. against indomethacin-induced intestinal epithelial cells injury

Salamone FL, Muscarà C, Molonia MS, Saija A, Cimino F, Speciale A (Messina)

P21. Focus on some herbal substances associated with safety concerns

Carlucci V, Rodda M, Brunasso Cattarello L, Gillio Tos E, Baldone G, Conto A (Colereto Giocosa)

P22 Fatty Acid composition, Antioxidant, and *in vitro* Anti-inflammatory activity of five cold-pressed *Prunus* seed oils, and their Anti-biofilm effect against pathogenic bacteria

Amato G, Fratianni F, d'Acierno A, Ombra MN, De Feo V, Ayala-Zavala J, Coppola R, Nazzaro F (Avellino, Salerno, Hermosillo, Campobasso)

P23. Pomegranate by-products valorization: cell-based antioxidant activity of the hydroalcoholic leaf extract

Marengo A, Sanna C, Foglietta F, Serpe L, Rubiolo P (Torino, Cagliari)

P24. Study of an herbal preparation composed by a combination of *Ruscus aculeatus* L. and *Vitis vinifera* L. extracts, magnolol and diosmetin to address chronic venous diseases through an anti-inflammatory effect and AP-1 modulation

Nocera R, Eletto D, Santoro V, Parisi V, Bellone ML, Izzo M, Tosco A, Dal Piaz F, Donadio G, De Tommasi N (Salerno, Ferrara)

SESSIONE POSTER SABATO 17 GIUGNO 10.30-11.30

Sessione 5

Moderatore: Martelli A. (Pisa)

P25. Use of acupuncture in cancer patients undergoing chemotherapy, immunotherapy, and radiation therapy

Allegra S, Di Nino A, Armando T, Storto S, Chiara F, De Francia S, Mussa MV (Torino)

P26. Biotechnological strategies for enhanced production of antioxidant metabolites in *in vitro* cultures of *Isatis tinctoria* (*Brassicaceae*)

Davì E, Taviano M.F, Nicosia N, Speranza J, Cavò E, Ragusa S, Arena P, Kwiecień I, Ekiert H, Miceli N (Messina, Milano, Leicester, Palermo, Krakow)

P27. Shoots formation by indirect organogenesis and VOCs production in *Acmella oleracea* L. ("jambù", *Asteraceae*)

Maggini V, Palagano E, Menicucci F, Cencetti G, Gallo E, Bettini PP, Michelozzi M, Bogani P, Firenzuoli F (Firenze, Sesto Fiorentino)

P28. The importance of (not) being a waste: the case study of *Cichorium endivia* L.

Parisi V, Bellone M, Santoro V, Vitiello M, Dal Piaz F, De Tommasi N, Donadio G (Salerno)

P29. Essential oils as potential acetylcholinesterase and butyrylcholinesterase inhibitor. A case study: *Elettaria cardamomum* (L.) Maton essential oil

Pavarino M, Cagliero C, Marengo A, Bicchi C, Rubiolo P, Sgorbini B (Torino)

P30. *Foeniculum vulgare* Miller: revalorization of a local food waste

Santoro V, Rosa E, Donadio G, Polito F, Caputo L, De Feo V, De Tommasi N (Salerno)

Sessione 6

Moderatore:

P31. Spilanthol-rich extracts from *Acmella oleracea* (L.) R.K. Jansen and their efficacy on stored product pests

Spinozzi E, Ferrati M, Piergentili A, Petrelli R, Cappellacci L, Maggi F, Angeloni S, Ricciutelli M, Drenaggi E, Boukouvala MC, Kavallieratos NG, Benelli G (Camerino, Atene, Pisa)

P32. Development of a “foodomics” platform for monitoring the transformation process of aromatic plants for the food industry

Evangelista AR, Nitride C, Andolfo G (Napoli)

P33. Nutritional and health valorization of plants indigenous to Western Sahara

Chiozzini C, Maietti A, Tacchini M, Abdi Bellau ML, Maresca I, Sacchetti G, Guerrini A (Ferrara, Tindouf)

P34. Evaluating the effect of *in-vitro* digestion on the total polyphenol content of *Vitis vinifera* L. by-products

Mastellone G, Gennaro G, Marengo A, Sgorbini B, Larrea V, Cirrincione S, Lamberti C, Hernando I, Gai F, Rubiolo P, Cagliero C (Torino, Valencia, Grugliasco)

P35. Antidysmenorrhoeic effects of the non-psychoactive *Cannabis sativa* L. phytocomplex on isolated human myometrium

Occhiuto C, Giofrè S, Smeriglio A, Trozzi A, Tranchida PQ, Occhiuto F (Messina)

P36 *Crepis vesicaria* L.: an underexploited herbal species with promising health-promoting effect.

Mangieri C, Carlucci V, Benedetto N, Cafarelli A, Covino MA, Lupia C, Milella L (Potenza, Castelluccio Superiore)

Sessione 7

Moderatore:

P37. Mosquitocidal and anti-inflammatory effects of hemp (*Cannabis sativa* L.) essential oils from monoecious, male, and female inflorescences and their encapsulation in nanoemulsions

Rossi P, Cappelli A, Marinelli O, Valzano M, Pavoni L, Bonacucina G Petrelli R, Ianni M, Mazzara E, Ricci I, Maggi F, Nabissi M (Camerino)

P38. Potential beneficial effect of grape seed extract on LPS-induced gut permeability damage and oxidative stress

Nicolosi RM, Imperia E, Altomare AM, Guarino MPL, De Vita D, Pasqua G (Roma)

P39. Preliminary investigation about morpho-anatomical and phytochemical features and antioxidant activity of leaves and flowers from Sicilian *Plumeria rubra* L. cv. “Classica palermitana”

Ingegneri M, Malaspina P, Betuzzi F, Di Gristina E, Cornara L, Trombetta D, Smeriglio A (Messina, Palermo)

P40. The use of nanovesicles to enhance the antioxidant activity of an extract of *Onopordum illyricum* leaves

Sanna C, Caddeo C., Tuberoso CIG., Floris S, Masala V., Pintus F (Cagliari)

P41. The Effect of *Olea europea* L. extract and its compound oleuropein, on Cardiotoxicity induced by doxorubicin

Maiuolo J, Musolino V, Gliozzi M, Mollace V (Catanzaro)

P42. Antioxidant and neuroprotective properties of an aqueous dry extract from the *S. officinale* aerial parts

Belinda N, Percaccio E, Cásedas G, Garzoli S, Nicotra G, Di Giacomo S, Les F, López V, Di Sotto A (Roma, Saragossa, Milano)

Sessione 8

Moderatore:

P43. Essential oils bearing specialized metabolites with potential tyrosinase inhibitory activity: focus on dermal absorption from topical formulations

Sgorbini B, Capetti F, Pavarino M, Cagliero C, Argenziano M, Cavalli R, Bicchi C, Rubiolo P (Torino)

P44. Anti-aging activity of natural extract for phytocosmetic applications

Sacilotto A, Tinazzi M, Giacomini I¹, Montopoli M, Cocetta V (Padova)

P45. Screening of extracts from *Crataegus laciniata* Ucria (Rosaceae) for the treatment of skin hyperpigmentation

Mirabile S, Cacciola A, Raimondo FM, D'Angelo V, Germanò MP (Messina, Palermo)

P46. Phytochemical and biological characterization of *Fragaria x ananassa* Duch.

Di Sotto A, Percaccio E, Di Giacomo S, Mezzanotte E, Milana MR, Cesa S, Ingallina C, Acciaro E, Cairone F, Vitalone A (Roma, Monterotondo)

P47. Boosting *Coriandrum sativum* Essential Oil Yield and Quality Using Natural Deep Eutectic Solvents (NADES)

Scandar S, Zadra C, Lanari D, Marcotullio MC (Perugia)

P48. Marine Macroalgae as a Promising Source of Natural Product

Armeli Minicante S, Spagnuolo D, Manghisi A, Morabito M, Genovese G (Venezia, Messina)

Optimization of the microwave-assisted hydrodistillation of *Carlina acaulis* essential oil by fractional factorial design study

Spinozzi E, Ferrati M, Lo Giudice D, Felicioni E, Petrelli R, Benelli G, Maggi F, Cespi M (Camerino, Pisa)

Sessione 9

Moderatore:

P49. Anthraquinones: Genotoxic until Proven Otherwise? A Study on a Substance-Based Medical Device to Implement Available Data for a Correct Risk Assessment

Gasparini S, Lenzi M (Bologna)

P50. Erucin, a natural hydrogen sulfide (H₂S) donor, improves skeletal muscle (SKM) dysfunction related to obesity

Casale V, Smimmo M, Casillo GM, Bello I, Panza E, Cirino G, Bucci M, Vellecco V (Napoli)

P51. Phytochemical investigation and antibacterial activity of *Satureja bachtiarica* Bunge aerial parts

Rahmani Samani M, D'Urso G, Masullo M, Piacente S (Salerno)

P52. Phenolic profile and biological activities of hydroalcoholic extracts from leaves, flowers and stems of *Sinapis pubescens* L. subsp. *pubescens* (*Brassicaceae*) wild from Sicily (Italy)

Arena P, Miceli N, Marino A, Davì F, Cavò E, Spadaro V, Raimondo FM, Cacciola F, Laganà Vinci R, Mondello L, Taviano MF (Messina, Palermo, Roma)

P53. Investigation of the anti-inflammatory activity of oleocanthal and oleocanthalic acid in an in vitro model of neuroinflammation

Rinaldi I, Barbalace MC, Freschi M, Malaguti M, Digiacoio M, Giusti L, Lucacchini A, Angeloni C, Hrelia S (Bologna, Pisa, Camerino)

P54. Evaluation of the anti-adipogenic and lipolytic activity of *Ficus carica* L. and γ -oryzanol

Tirelli E, Pucci M, Chiochio I, Mandrone M, Mac Sweeney E, Mastinu A, Memo M, Poli F, Uberti D, Abate G (Brescia, Bologna)

P55. Purple corn anthocyanins as a nutraceutical approach to prevent the progression of multiple sclerosis and its associated symptoms: preventive effect against neuroinflammation

Magni G, Marinelli A, Riboldi B, Romano S, Narbad A, Nicoletti C, Di Lorenzo C, Ceruti S, Petroni K (Milano, Norwich, Siena)

P56: New dinorneolignans from *Cedrela odorata* and other analogues with potential antiangiogenic properties

D'Angelo V, Braca A, De Leo M, Parisi V, De Tommasi N, Germanò MP (Messina, Pisa)

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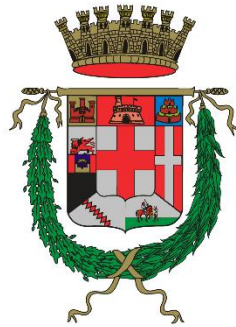
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