



2° CONGRESSO INTERSOCIETÀ SUI PRODOTTI VEGETALI PER LA SALUTE IL RUOLO DELLE PIANTE MEDICINALI NELLA MEDICINA MODERNA

PROGRAMMA



CENTRO CONGRESSI
FEDERICO II

Via Partenope 36, Napoli 10-12 Aprile 2025



Con il patrocinio di



UNIVERSITÀ DEGLI STUDI DI NAPOLI
FEDERICO II



UNIVERSITÀ
DEGLI STUDI
DI PADOVA



comune di
BONEA



ORDINE DEI FARMACISTI
DELLA PROVINCIA DI NAPOLI

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Scansiona il codice QR per visionare il programma completo con l'elenco degli abstract presentati per le letture magistrali, le comunicazioni orali e i poster.



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Sabato 12 aprile



COMUNICAZIONI ORALI

Giovedì 10 Aprile

12.30-13.30

Registrazione dei Partecipanti

13.30-14.00

Saluti di benvenuto

Aula Magna

Magnifico Rettore dell'Università degli Studi di Napoli Federico II, Prof. Matteo Lorito

Presidente AIFA, Prof. Robert Giovanni Nisticò

Presidente Ordine dei Farmacisti della Provincia di Napoli, Prof. Vincenzo Santagada

Direttore del Dipartimento di Agraria, Prof. Danilo Ercolini

Direttore del Dipartimento di Farmacia, Prof. Angelo A. Izzo

Lettura magistrale

Aula Magna

Moderatore: Sacchetti G (Ferrara)

14.00-14.30

Challenges for area-based conservation of plant diversity across Europe

[Chiarucci A](#) (Bologna)

14.30-16.15 Sessione 1

Aula Magna

Moderatori: Bisio A (Genova) - Borrelli F (Napoli)

14.30-14.45

In vivo evidence of Cistus (*Cistus x incanus* L.) and Chestnut (*Castanea sativa* Mill.) extracts as gastroprotective nutraceuticals.

[Piazza S](#), Martinelli G, Pozzoli C, Sonzogni E, Maranta N, Fumagalli M, Haddad S, Vicentini S, Nicotra G, Sangiovanni E, Dell'Agli M (Milano)

14.45-15.00

Use of medicinal plants of borage (*Borago officinalis*) and wild mallow (*Malva sylvestris*) to control gastrointestinal nematode infection in sheep.

[Bosco A](#), Scarano P, Nappa A, Falzarano A, Lucibelli S, Quaranta G, Claps S, Sciarrillo R, Guarino C, Rinaldi L, Cringoli G (Napoli, Sannio, Basilicata)

15.00-15.15

Anti-inflammatory and immunomodulatory effects of glucoraphanin, a natural hydrogen sulfide donor, in inflammatory bowel diseases.

[Indolfi C](#), Saviano A, Esposito E, Correale M, Marigliano N, Schettino A, Iqbal AJ, Bucci M, Mitidieri E, Maione F, Sorrentino R, d'Emmanuele di Villa Bianca R (Napoli, Birmingham)

15.15-15.30

Polyphenols-enriched extract from *Citrus medica* L.: Is it a novel strategy to fight intestinal inflammation?

[Carlucci V](#), Jaegerova T, Lela L, Faraone I, Hajslova J, Milella L (Potenza, Prague)

15.30-15.45

Metabolic effects of a hydroalcoholic extract from *Cymodocea nodosa* in a murine obesogenic diet model.

[Benedetti G](#), Flori L, Vitiello M, Carbonetti L De Leo M, Menicagli V, Lardicci C, Balestri E, Braca A, Calderone V, Nieri P, Testai L (Pisa)

15.45-16.00

Beneficial effects induced by an aqueous aged black garlic extract in rodent models of ulcerative colitis and colitis-associated visceral pain.

[Recinella L](#), Leone S, Libero ML, Lucarini E, Ciampi C, Chiavaroli A, Acquaviva A, Nilofar N, Orlando G, Ghelardini C, Di Cesare Mannelli L, Ferrante C, Menghini L, Di Simone SC, Brunetti L (Chieti, Firenze)

16.00-16.15

The dietary compound luteolin reduces pro-inflammatory capability of M1 macrophages and colitis by targeting TRPM8

[Miraglia M](#), Cicia D, Iannotti FA, Ferrante C, Iaccarino N, Chiavaroli A, Moriello AS, Amico R, Rinaldi MM, Randazzo A, Capasso R, Matteoli G, Izzo AA, Pagano E (Napoli, Leuven, Chieti)

14.30-16.15 Sessione 2

Aula A

Moderatori: Mandrone M (Bologna) – Testai L (Pisa)

14.30-14.45

Antioxidant and enzyme inhibitory potential of essential oils from *Ocimum gratissimum* L., *Lippia alba* Mill., and *Lippia sidoides* Cham.

[Francolino R](#), Amato G, Grul'ová D, Ferreira J, De Martino L, De Feo V (Fisciano, Presov, Sao Paolo)

14.45-15.00

Multifaceted study of *Vepris boiviniana*: phytochemicals, cytotoxic effects, antioxidant potential, and enzyme inhibition.

[Nilofar N](#), Bakar K, Mohamed A, Hryc B, Sieniawska E, Ferrante C, Menghini L, Zengin G, Polz-Dacewicz M (Chieti, Konya, Comoros, Lublin)

15.00-15.15

Essential Oil of *Cannabis sativa* L.: chemical composition and antimicrobial potential against methicillin-resistant *Staphylococcus pseudintermedius* Strains.

[Pieracci Y](#), Bozzini MF, Ascrizzi R, Fulvio F, Montanari M, Bassolino L, Paris R, Fratini F, Flamini G (Pisa, Bologna)

15.15-15.30

Chemical analysis and antimicrobial activity of the traditional food crop *Moringa oleifera* Lam.

Anzano A, [De Falco B](#), Ammar M, Ricciardelli A, Grauso L, Sabbah M, Capparelli R, Lanzotti V (Portici, Palestine, Napoli)

15.30-15.45

Troloxerutin activity against oxidative stress: a potential strategy for corneal damage.

[Cucinotta L](#), Mannino D, Filippone A, Basilotta R, Palermo N, Paterniti I, Esposito E (Messina)

15.45-16.00

***Morus alba* twigs: waste no more! Unveiling antibacterial potential through untargeted metabolomic-guided phytochemical investigation.**

[Gargiulo E](#), Chianese G, Sirignano C, Buommino E, Lembo F, Arpini S, Ribatti E, Falzoni M, Tagliatela – Scafati O (Napoli, Milano)

16.00-16.15

Efficacy of *Citrus sinensis* essential oils in the control of *Pseudomonas syringae* pv. *tomato* and *Fusarium oxysporum* f.sp. *radicis lycopersici*.

[Lo Vetere M](#), Lanteri AP, Bisio A (Genova, Albenga)

16.15 16.45 Coffee break

16.45 -18.45 Sessione 3

Aula Magna

Moderatori: Conforti F (Rende) – Meli R (Napoli)

16.45-17.00

Protective effects of *Vaccinium macrocarpon* on AGE-Mediated sarcopenia: *in vitro* and *in vivo* evidence.Paiella M, [Raiteri T](#), Salvadori L, Manenti T, Sorci G, Prodam F, Filigheddu N, RiuZZi F (Perugia, Novara, Anghiari)

17.00-17.15

Kadsurenin F from *Piper Kadsura* exerts anti-inflammatory properties in mouse colitis.[Pace S](#), König S, Czapka A, Bilancia R, Troisi F, Parisi O, Cicala C, Caiazzo E, Gerstmeier J, Stuppner H, Borrelli F, Rossi A, Werz O. (Roma, Jena, Napoli, Innsbruck)

17.15-17.30

Comprehensive polar lipid profiling of “Cavolfiore della Piana del Sele” PGI (*Brassica oleracea* L. var. *botrytis*) inner leaves by LC-ESI/HRMS/MS analysis and evaluation of tyrosinase inhibitory activity.[Cerulli A](#), Napolitano A, Masullo M, Piacente S (Fisciano, Napoli)

17.30-17.45

Combining *Acmella oleracea* and *Boswellia serrata* extracts: a novel pharmacological approach in inflammatory vestibulodynia.[Perrone M](#), Fusco A, Ricciardi F, Morace AM, Bonsale R, Melake Teweldemedhin M, Di Martino E, Limongelli R, Papa A, Maione S, Guida F, Luongo L (Napoli)

17.45-18.00

Plant-based extract with vitamin D2: a novel nutraceutical strategy against hepatic lipotoxicity in MAFLD.[Varfaj I](#), Bartolini D, Migni A, Franco Moscardini I, Sardella R, Garetto S, Lucci J, Galli F, Marcotullio M C (Perugia, Arezzo)

18.00-18.15

Selective Activity of Chrysin-6-C-fucopyranoside from *Cyclanthera pedata* on Peroxisome Proliferator-Activated Receptor Gamma (PPAR γ).[De Vito M](#); Zuccolo M; Bassoli A; Borgonovo G; Giupponi L; Giorgia A; Schiano Moriello A; Iannotti FA (Pozzuoli, Edolo, Milano, Padova)

18.15-18.30

Bergamot essential oil as a potential therapeutic agent for inflammatory bowel disease: phytochemical profile, toxicity assessment, and anti-inflammatory effects.[Genovesi G](#), Centulio AP, Ciaramellano D, Acquaviva A, Libero ML, Di Simone SC, Tunali F, Leone S, Recinella L, Chiavaroli A, Ferrante C, Menghini L, Brunetti L, Orlando G (Chieti, Torrevicchia Teatina)

18.30-18.45

Attenuation of glucose-induced microglial neuroinflammation by a *Melissa officinalis* L. phytocomplex from *in vitro* cultured cells.

[Videtta G](#), Pressi G, Galeotti N (Firenze, Camisano Vicentino)

16.45 -18.45 Sessione 4

Aula A

Moderatori: Bilia AR (Firenze) – Trainotti L (Padova)

16.45-17.00

Phytochemical investigation of *Withania somnifera* L. and evaluation of acetylcholinesterase inhibitory activity by spectrophotometric assay and STD-NMR analysis.

[Polcaro LM](#), Angulo Alvarez J, Piacente S, Masullo M (Salerno, Seville)

17.00-17.15

Metabolic profiling of *Polyporus umbellatus* (Pers.) Fr.

[Patriarca A](#), Ottaviani D J, De Rosa M, Spagnoli M, Santi L, De Vita D, Toniolo C, Frezza C, Saccoccio M, Di Rita F, Sciubba F (Roma, Monte Porzio Catone)

17.15-17.30

Revealing the phytochemistry of the Mediterranean orchid *Himantoglossum robertianum* (Loisel.) P. Delforge sampled in different ecological habitats in Sardinia Island.

[Trincia S](#), Chiocchio I, Mandrone M, Tarozzi C, Sanna C, Cortis P, De Agostini A, Poli F (Bologna, Cagliari)

17.30-17.45

Studying the biological activities of *Roccella tinctoria* DC. lichen and its main phenolic compounds.

[Corsetti L](#), De Vita D, Di Giacomo S, Fraioli DR, Frezza C, Di Sotto A (Roma)

17.45-18.00

Valorization of *Olea europaea* L. tree pruning waste: optimization of phytochemicals extraction by D-optimal design approach

[Tumminelli E](#), Cavalloro V, Marrubini G, Martino E, Rossi D, Collina S (Pavia)

18.00-18.15

Phytochemical insights and biological activity of *Salvia karwinskii* Benth. exudate against phytopathogens and pests.

[Devi P](#), Lanteri A P, Minuto A, Rosa E, Karioti A, De Tommasi N, Bisio A (Genova, Albenga, Salerno, Pisa)

18.15-18.30

Towards eco-friendly metabolomics: a NADES-guided, standard free semi-quantitative metabolomics for *Melissa officinalis* analysis.

[Spaggiari C](#), Hiemstra I, Kazbar A, Costantino G, Righetti L (Wageningen, Parma)

18.30-18.45

Plant products as innovative tools for honeybee health in veterinary medicine.

[Bava R](#), Lupia C, Bulotta R M, Conforti F, Statti G, Musella V, Castagna F (Catanzaro, Potenza, Rende)

19.00 Cocktail di Benvenuto

Venerdì 11 Aprile

9.00-10.30 Sessione 5

Aula Magna

Moderatori: Roviezzo F (Napoli) – Turrini E (Bologna)

9.00-9.15

Investigation of the molecular immune mechanisms of *Baccharis dracunculifolia* DC. through the use of an integrated in silico/in vitro model.

[Cappellucci G](#), Romão-Veiga M, Ribeiro-Vasques VR, Miraldi E, Bains G, Biagi M, Sforcin JM (Siena, Botucatu, Parma)

9.15-9.30

Erucin ameliorates skeletal muscle dysfunction in Duchenne Muscular Dystrophy.

[Casale V](#), Smimmo M, D'Andrea D, Persico G, Cirino G, Filipovic M, Bucci M, Vellecco V (Napoli, Dortmund)

9.30-9.45

Protective effects induced by the association of vitamin D3, vitamin K2, resveratrol, and water extracts from *Equisetum arvense*, *Crataegus curvisepala*, *Vitex agnus-castus*, and *Glycine max*.

[Acquaviva A](#), Di Simone SC, Libero ML, Centulio AP, Genovesi G, Ciaramellano D, Recinella L, Leone S, Brunetti L, Ferrante C, Chiavaroli A, Orlando G (Chieti)

9.45-10.00

Hydrogen sulfide enhances the therapeutic effects of resveratrol in managing asthma symptoms.

[Simonelli M](#), Cerqua I, D'Avino D, Perna S, Corvino A, Severino B, Capasso R, Rossi A, Roviezzo F (Napoli)

10.00-10.15

Cytoprotective effects of a polyphenol-based extract from *Humulus lupulus* L. against damage induced by respiratory toxicants in airway cells.

[Percaccio E](#), Ciarla C, Acquaviva A, Facchinetti R, Nicotra G, Di Giacomo S, Ferrante C, Di Sotto A (Roma, Chieti, Milano)

10.15-10.30

Beneficial effects induced by a blend of a new bromelain-based polyenzymatic complex plus N-Acetylcysteine in urinary tract infections.

[Leone S](#), Recinella L, Libero ML, Ciaramellano D, Centulio AP, Genovesi G, Acquaviva A, Orlando G, Chiavaroli A, Ferrante C, Menghini L, Di Simone S, Brunetti L (Chieti)

9.00-10.30 Sessione 6

Aula A

Moderatori: Ferrante C (Chieti) - Sorrentino R (Napoli)

9.00-9.15

***Echinacea angustifolia* DC. root extract: phytochemicals and molecular mechanisms in wound healing.**

[Santopietro F](#), Benedetto N, Russo D, Tuseef M, Mangieri C, Carmosino M, Milella L (Potenza)

9.15-9.30

Aliophen-XP, a patented malt- and hop-based formulation, inhibits psoriasis-like inflammation in mice.

[De Palma G](#), Spagnuolo C, Adabbo E, Russo G L, Cicala C (Napoli, Avellino, Milano)

9.30-9.45

Targeting melanoma: exploring plant extracts for tyrosinase and RAGE inhibitors

[Fossati A](#), Cavalloro V, Papetti A, Moretto G, Collina S, Martino E (Pavia)

9.45-10.00

Polydatin reduces cardiotoxicity and enhances the anticancer effects of sunitinib by decreasing pro-oxidative stress, pro-inflammatory cytokines, and NLRP3 expression

[Quagliariello V](#), Berretta M, Iovine M, Paccone A, Taibi R, Montopoli M, Maurea N (Napoli, Messina, Pordenone, Padova)

10.00-10.15

Anti-inflammatory effects of a commercial *Eleutherococcus senticosus* root extract: *in vitro* and *in vivo* evidence.

[D'Avino D](#), Cerqua I, Perna S, Spinelli M, Simonelli M, Sbrogna G, Ialenti A, Sommella EM, Daglia M, Pace S, Roviezzo F, Rossi A (Napoli, Salerno, Fisciano, Roma)

10.15-10.30

Erucin and Sulforaphane, natural sulfur compounds for the management of metabolic disorders: evaluation of antioxidant effects and modulation of *de-novo* browning process on 3T3-L1 preadipocyte cells.

[Flori L](#), Galgani G, Bray G, Pinelli R, Ippolito C, Segnani C, Pagnotta E, Ugolini L, Citi V, Pellegrini C, Bernardini N, Martelli A, Calderone V (Pisa, Bologna)

10.30-11.30 Coffee break e sessione poster

Letture magistrali

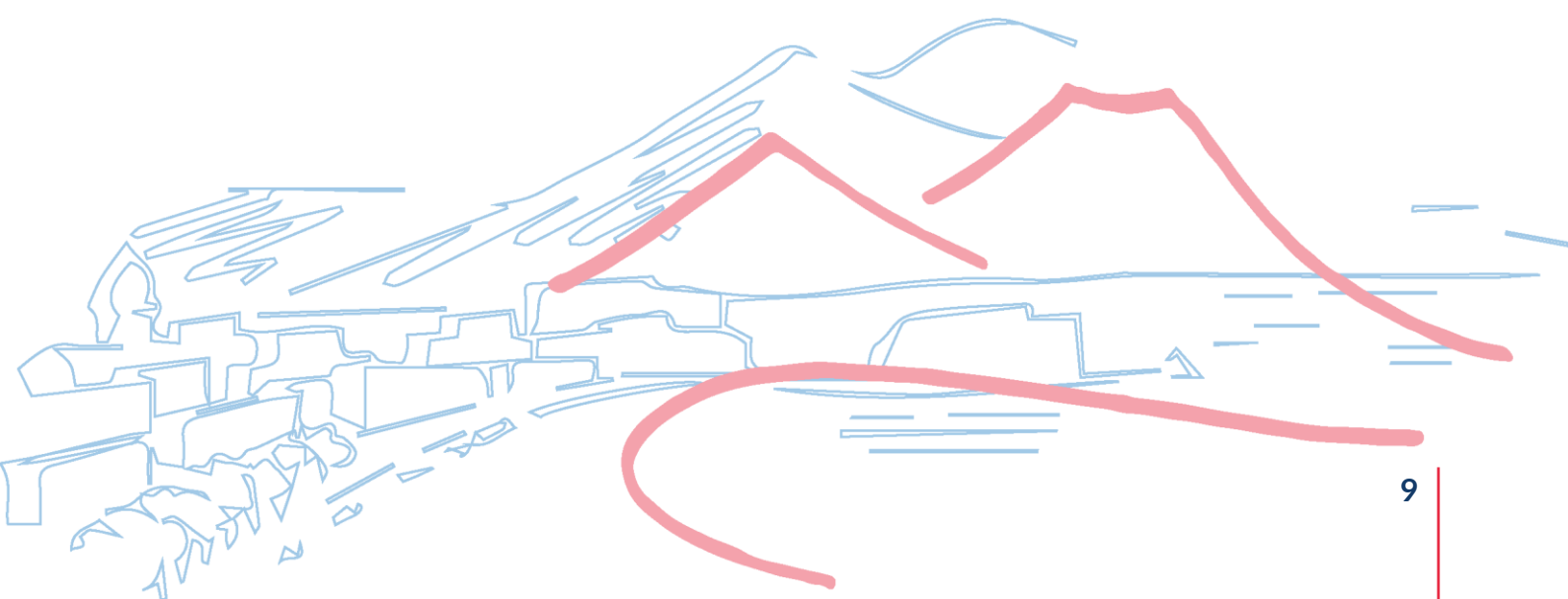
Aula Magna

Moderatore: Calderone V (Pisa)

11.30-12.00

Mediterranean diet and medicinal plants as microbiota modulators

Cena H, Al-Naqeb G, Kalmpourtzidou A (Pavia)



12.00-13.15 Sessione 7

Aula Magna

Moderatori: Fimognari C (Bologna) – Romano B (Napoli)

12.00-12.15

Proceeding from animal to organoid models of triple-negative breast cancer to explore the therapeutic potential of erucin, an H₂S-releasing compound from *Eruca sativa* Mill.

[Bello I](#), Esposito C, Barile M, Bucci M, Cirino G, Grolla A, Travelli C, Panza E (Napoli, Novara, Pavia)

12.15-12.30

***Boswellia Serrata* extract as a new therapeutic strategy to slow the progression of colon cancer.**

[Mannino D](#), Cucinotta L, Filippone A, Basilotta R, Casili G, Paterniti I, Esposito E (Messina)

12.30-12.45

Boosting curcumin analogs' cytotoxicity with light: an *in vitro* study.

[Greco G](#), Turrini E, Belluti F, Calvaresi M, Ferrini F, Sestili P, Fimognari C (Bologna, Rimini, Urbino)

12.45-13.00

Genistein and curcumin inhibit proliferation and invasiveness in BRAF^{V600E} mutant and wild-type melanoma cells: insights of the anticancer effects.

Vaccaro F, Cullotta C, Pallio G, [Irrera N](#) (Messina)

13.00-13.15

Secoiridoid-enriched extra virgin olive oil extracts enhance mitochondrial activity and antioxidant response in colorectal cancer cells: the role of oleacein and oleocanthal in PPAR γ interaction.

[Delre P](#), Leo M, Mancini C, Lori G, Ferraris I, Lucchini F, Molinaro A, Leri M, Castellaneta A, Losito I, Cataldi T, Rossato M, Colantuoni V, Taddei M L, Lavecchia A, Sabatino L (Benevento, Firenze, Napoli, Verona, Bari)

12.00-13.15 Sessione 8

Aula A

Moderatori: Martelli A (Pisa) - Montopoli M (Padova)

12.00-12.15

Protective effects of oleoylethanolamide on kidney dysfunction associated with obesity and metabolic disorders.

[Comella F](#), Melini S, Opallo N, Navatti N, Di Napoli E, Paciello O, Meli R, Pirozzi C, Mattace Raso G (Napoli)

12.15-12.30

Valorization of two endemic Italian plants by the bioaccessibility of the metabolites present in their hydroalcoholic extracts using an *in vitro* digestion model.

[Menzio G](#), Grasso S, Marengo A, Cagliero C, Sgorbini B, Sanna C, Rubiolo P (Torino, Cagliari)

12.30-12.45

Fructooligosaccharides mitigate metabolic disruptions induced by chronic fructose or galactose consumption in rats by reducing the accumulation of advanced glycation end products.

Almasri F, Collotta D, [Aimaretti E](#), Sus N, Aragno M, Dal Bello F, Eva C, Mastrocola R, Landberg R, Frank J, Collino M (Stuttgart, Piemonte, Gothenburg)

12.45-13.00

Effect of N-acylethanolamines mixture (Olaliamid®) on fat-to-heart crosstalk compromised by obesity: *in vivo* and *in vitro* evidence.

[Navatti NP](#), Melini S, Opallo N, Comella F, Mattace Raso G, Pirozzi C, Meli R (Napoli)

13.00-13.15

Cyanidin-3-O-glucoside beneficial effects against intestinal barrier injury induced by indomethacin.

[Salamone FL](#), Molonia MS, Trischitta S, Saija A, Cimino F, Speciale A (Messina)

13.15-14.30 Light lunch

14.30-16.30 Sessione 9

Aula Magna

Moderatori: Della Loggia R (Trieste) – De Tommasi N (Salerno)

14.30-14.45

Evaluation of the efficacy of *Zingiber officinale* Roscoe, and its main terpene component, zingiberene, in modulating microglial senescence.

[Sasia C](#), Galeotti N (Firenze)

14.45-15.00

Neuroprotective effects of *Actaea racemosa* in an *in vivo* model of spinal cord injury.

[Scuderi S A](#), Basilotta R, Filippone A, Palermo N, Paterniti I, Campolo M, Esposito E (Messina)

15.00-15.15

Photochemical behavior and degradation products of natural cannabinoids.

[Bini A](#), Protti S, Pollastro F, Bonesi S, Merli D (Pavia, Novara, Buenos Aires)

15.15-15.30

Study on the neuroprotective activity of olive leaf extract from pruning waste against different types of stress in SH-SY5Y cells.

[Vaccaro F](#), Rigillo G, Bains G, Cappellucci G, Miraldi E, Biagi M (Siena, Modena, Reggio Emilia, Parma)

15.30-15.45

Treatment with a mixture of standardized extracts obtained from *Centella asiatica*, *Echinacea purpurea* and *Zingiber officinale* prevents behavioural and neurochemical alterations induced by chronic social defeat stress in mice.

[Costa A](#), Micheli L, Sordi V, Ciampi C, Lucci J, Passani MB, Provensi G (Firenze, Camerino, Sansepolcro)

15.45-16.00

Cannabidiol-loaded cationic vesicles loaded in a thermosensitive hydrogel: an efficient nanoplatform for successful intranasal administration in a rat model of hydrocephalus.

Grifoni L, [Giachi G](#), Ciampi C, Vanti G, Fiani S, Mennini N, Bergonzi MC, Micheli L, Di Cesare Mannelli L, Ghelardini C, Bilia AR (Sesto Fiorentino, Firenze)

16.00-16.15

Prosocial effect of non-psychotropic *Cannabis sativa* oil.

[Mac Sweeney E](#), Popescu VS, Premoli M, Ascrizzi R, Ribaldo G, Gianoncelli A, Flamini G, Pistelli L, Memo M, Bonini SA, Mastinu A (Brescia, Pisa)

16.15-16.30

PEA-OXA restores cognitive impairments associated with vitamin D deficiency-dependent alterations of the gut microbiota.

[Pagano S](#), Iannotta M, Perrone M, Infantino R, Giorgini G, Fusco A, Marabese I, Manzo I, Belardo C, Di Martino E, Boccella S, Silvestri C, Luongo L, Di Marzo V, Guida F, Maione S (Napoli, Quebec)

14.30-16.30 Sessione 10

Aula A

Moderatori: Piacente S (Salerno) - Pollastro F (Novara)

14.30-14.45

Optimization of the management of olive leaves from Tuscan cultivars for their up-cycling as nutraceuticals.

[Ugolini T](#), Cecchi L, Digiglio I, Zanoni B, Mulinacci N (Firenze)

14.45-15.00

Optimization of secondary metabolites production in plant cell cultures.

Carpi A, Armellin M, Marin A, Dal Monte R, [Trainotti L](#) (Padova)

15.00-15.15

Callus culture of *Mespilus germanica* L. (Rosaceae): a biofactory for bioactive compounds.

[Rosa E](#), Parisi V, De Tommasi N, Donadio G, Fraternali D (Fisciano, Urbino)

15.15-15.30

Circular biosolutions: compost teas as a new frontier in antiviral and antimicrobial therapy.

[Verrillo M](#), Della Marca R, Cozzolino V, Zannella C, Galdiero M, Spaccini R, De Filippis A (Napoli)

15.30-15.45

Influence of wood distillate, a bio-stimulant, on the nutritional quality of fruits in four *Cucurbita* species.

[Fedeli R](#), Loppi S (Siena, Palermo)

15.45-16.00

Chemical Profiling of Matcha Tea: Analysis of Principal Metabolites Variations Among Different Grades.

[Toniolo C](#), Patriarca A, De Vita D, Frezza C, Santi L, Sciubba F (Roma)

16.00-16.15

Citrus, Pomegranate, Conifers, and More: An Integral Green Extraction Technique Enabling the Sustainable Exploitation of Valuable Plant By-Products.

[Meneguzzo F](#), Tagliavento L, Zabini F, Testai L (Benevento, Pisa)

16.15-16.30

Diterpenes with potential anti-inflammatory properties from *Lavandula pubescens* Decne.

[Pouramin Arabi S](#), Parisi V, Nocera R, Rosa E, Bader A and De Tommasi N (Salerno, Makkah)

16.30-17.00 Coffee break

Letture magistrali

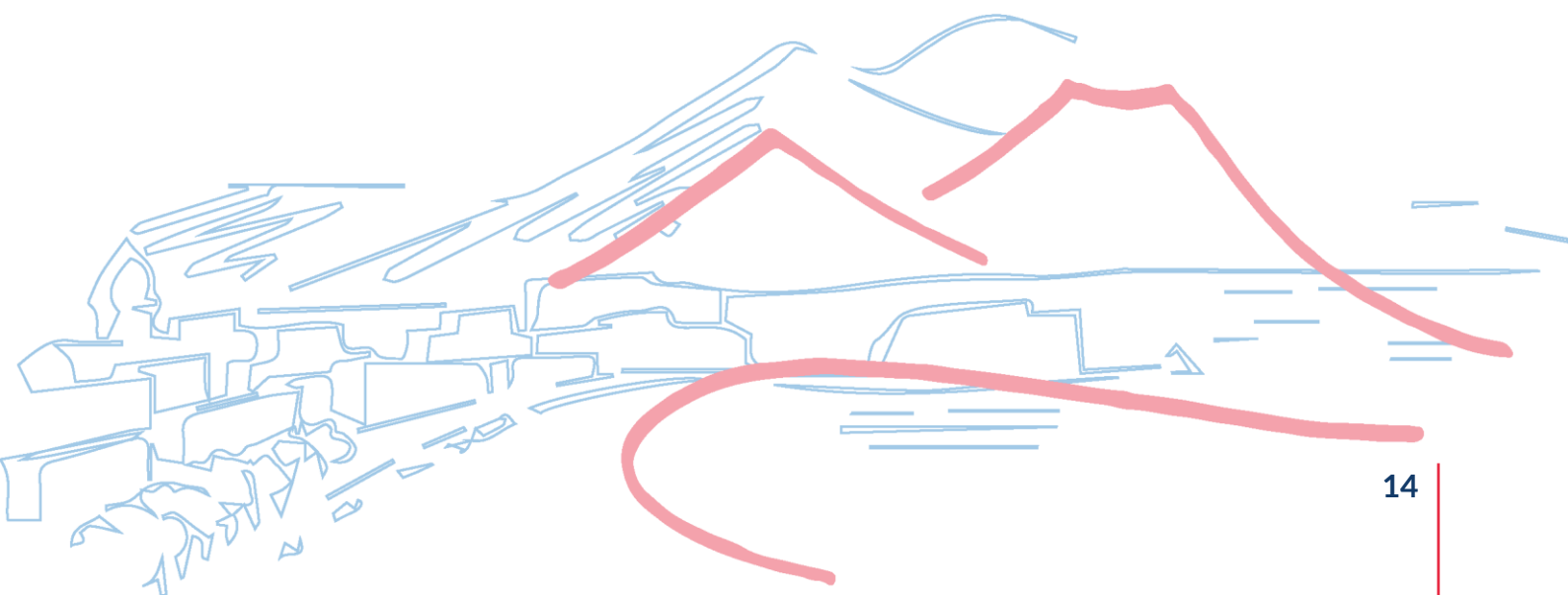
Aula Magna

Moderatore: Calapai G (Messina)

17.00-17.30

Herbal medicinal products in Italy: regulatory framework and tools to increase awareness on their role in the marketplace

Assisi A. (AIFA, Roma)



17.30-19.00 Sessione 11

Aula Magna

Moderatori: Biagi M (Parma) – Rossi A (Napoli)

17.30-17.45

Phytovigilance: Natural does not mean free of ADR.

[Rizzi L](#), Gallo M, Bacis G, Torsello A (Milano, Bergamo)

17.45-18.00

Adverse reactions to *Ginkgo biloba* medicinal products released in European countries.

[Ammendolia I](#), Attard E, Mannucci C, Esposito E, Calapai G, Currò M, Midiri P, Attard T, Cardia L, Calapai F (Messina, Msida, Novara)

18.00-18.15

Role and impact of phytomedicines in the modulation of visceral hypersensitivity and mycobiome in DGBI

[De Togni H](#) (Schwabe Pharma Italia, Egna)

18.15-18.30

***Ginkgo biloba*: from tradition to modern approaches in favour of efficacy and safety**

[Tongiani S](#) (Indena SpA, Milano)

18.30-18.45

Pharmaco-toxicological profile of “Aglianico del Vulture” red wine polyphenolic extract (RWP) as dietary supplement for preventing obesity-associated cardiometabolic complications

[Desantis V](#), Andriano A, Caradonna IC, Marozzi MLS, Cicco S, Infantino V, Nacci, Potenza MA, Montagnani M (Bari, Potenza)

18.45-19.00

Benzyl isothiocyanate suppresses development of thyroid carcinoma by regulating both autophagy and apoptosis pathway.

[Basilotta R](#), Scuderi SA, Casili G, Mannino D, Filippone A, Lanza M, Paterniti I, Esposito E (Messina)

20.30 Cena

Sabato 12 Aprile

9.00-10.30 Sessione 12

Aula Magna

Moderatori: Milella L (Potenza) - Dell'Agli M (Milano)

9.00-9.15

Neuroprotective effect of nutritional supplements in animal models of glaucoma.

[Adornetto A](#), Bagetta G, Nucci C, Russo R (Rende, Roma)

9.15-9.30

Eremurus species as new sources of metabolites with neuroprotective activity.

[Cavalloro V](#), Marchesi N, Ahmed KM, Ambrosio FA, Costa G, Alcaro S, Collina S, Martino E (Pavia, Kurdistan Region, Catanzaro)

9.30-9.45

Olive leaf extract reduces mast cell-mediated allergic inflammation.

[Somma F](#), Romano B, Maresca DC, Ianaro A, Ercolano G (Napoli)

9.45-10.00

Exploring the anti-inflammatory and antioxidant properties of *Vitis vinifera* L. leaves extract: a sustainable approach to wine byproducts utilization.

[Morandini S](#), Pucci M, Tirelli E, Popescu V S, Mastinu A, Peron G, Ribaud G, Gianoncelli A, Puglisi R, Bongioni G, Cucchi L, Corsini S, Novello M, Cenadelli S, Uberti D, Abate G (Brescia, Rivolta d'Adda, Montichiari)

10.00-10.15

***Ulva pertusa* modulated colonic oxidative stress markers and clinical parameters: a potential adjuvant therapy to manage side effects during 5-FURegimen.**

[Ardizzone A](#), Scuderi SA, Basilotta R, Capra AP, Campolo M, Paterniti I, Esposito E (Messina)

10.15-10.30

Roots and aerial parts: a comparative study on the biological activity and composition of *Cistus monspeliensis* L.

[Popescu VS](#), Mac Sweeney E, Chiochio I, Mandrone M, Sanna C, Bilo F, Morandini S, Borgese L, Trincia S, Poli F, Abate G, Mastinu A (Brescia, Bologna, Cagliari, Brescia)

9.00-10.30 Sessione 13

Aula A

Moderatori: Governa P (Siena) - Cicala C (Napoli)

9.00-9.15

Protective effect of *Salvia officinalis* L. hydrodistillation wastewater against *E. coli*-induced damage in Caco-2 cells.

[Molonia MS](#), Napoli E, Salamone FL, D'arrigo M, Cristani MT, Trischitta S, Saija A, Speciale A, Cimino F (Messina, Catania)

9.15-9.30

Effects of N-acylethanolamine association on metabolic dysfunction and cellular stress responses driven by obesity.

[Melini S](#), Pirozzi C, Navatti NP, Del Piano F, Comella F, Opallo N, Mattace Raso S, Pietrocola F, Meli R (Napoli, Stockholm)

9.30-9.45

Erucin, a natural hydrogen sulfide (H₂S) donor, ameliorates vascular dysfunctions associated with metabolic syndrome.

[Smimmo M](#), Casale V, Persico G, Mitidieri E, d'Emmanuele di Villa Bianca R, Bello I, Panza E, Brancaleone V, Indolfi C, Cirino G, Bucci M, Vellecco V (Napoli, Basilicata)

9.45-10.00

In vitro test to evaluate the anthelmintic efficacy of hazelnut and pomegranate by-products on *Trichostrongylus colubriformis* and *Haemonchus contortus* in sheep.

[Amato R](#), Bosco A, Martone G, Nappa A, Musella V, Castagna F, Cutrignelli MI, Policastro G, Fabbicino M, Rinaldi L (Napoli, Catanzaro)

10.00-10.15

Effect of *Fabiana imbricata* Ruiz et Pav. essential oil in prostate cancer cells.

[Avola R](#), Graziano ACE, Cardile V, Madrid A, Russo A (Enna, Catania, Valparaiso, Catania)

10.15-10.30

Neuroprotective effects of a novel plant-based formulation with magnesium and vitamin B6.

[Libero M.L.](#), Di Simone S.C, Acquaviva A, Nilofar N, Tunali F, Centulio A, Ciaramellano D, Genovesi G, Leone S, Recinella L, Menghini L, Orlando G, Ferrante C, Chiavaroli A (Chieti, Torrevicchia Teatina)

10.30-11.30 Coffee break e Sessione poster

11.30-13.00 Sessione 14

Aula Magna

Moderatori: Statti G (Rende) – Smeriglio A (Messina)

11.30-11.45

Novel gram-scale production of dietary isothiocyanate moringin, a slow H₂S donor.

[De Nicola GR](#), Rollin P (Pescia, Orleans)

11.45-12.00

Circular Economy and valorization of waste products from agri-food production: Calabrian liquorice leaves as a functional component in baked products.

[Zicarelli L](#), Fucile M, Alexa E, Conforti F, Statti G (Cosenza, Timisoara)

12.00-12.15

White mulberry *in vitro* cultures for healthy product development.

[Dalla Costa V](#), Piovan A, Brun P, Filippini R (Padova)

12.15-12.30

Ellagic and Punicic acid reduce oxidative stress and neuroinflammation in a kainic acid rat model of epilepsy.

[Pallio G](#), Cullotta C, Irrera N, Bitto A (Messina)

12.30-12.45

From trauma to tranquility: how myrcene helps the brain bounce back.

[Bonsale R](#), Teweldemedhin M, Guida F, Luongo L, Maione S (Napoli)

12.45- 13.00

***Aegonychon calabrum* (Ten.) Holub: a source of bioactive compounds with antioxidant, anti-inflammatory, and antidiabetic potential**

[Fucile M](#), Di Bella F, Puntillo D, Statti G, Conforti F (Rende)

13.15

Premiazione e Chiusura del Convegno

POSTER

Venerdì 11 Aprile

10.45-11.45

Sessione 1

Moderatore: Sangiovanni E (Milano)

P1. **Beneficial effects induced by a blend of biologically active compounds in an *ex vivo* model of prostatitis.**

[Ciamamellano D](#), Centulio AP, Genovesi G, Libero ML, Acquaviva A, Leone S, Recinella L, Orlando G, Chiavaroli A, Ferrante C, Menghini L, Di Simone S, Brunetti L (Chieti, Torrevicchia Teatina)

P2. **Cannabidiol and beta-caryophyllene alone or in combination in an *in vitro* model of inflammation: a possible synergic effect.**

[Mazzantini C](#), Pellegrini-Giampietro DE, Landucci E (Firenze)

P3. ***In Vitro* Anti-Inflammatory effects of ethyl acetate and n-butanol extracts from Aglianico Grape Pomace (*Vitis vinifera* L.).**

[Perna S](#), D'Avino D, Kretzschmar E, Simonelli M, Cerqua I, Forino M, Roviezzo F, Capasso R, Rossi A (Napoli, Jena, Avellino)

P4. **Discovery of a marine-derived Natural Matrix from the Indonesian ascidian *Polycarpa aurata* with anti-inflammatory properties as a source of hydrogen sulfide.**

[Correale M](#), Indolfi C, Esposito E, Bello I, Casertano M, Panza E, Menna ML, Imperatore C, Sorrentino R, Mitidieri E, d'Emmanuele di Villa Bianca R (Napoli)

P5. **Exploring the anti-inflammatory and immunomodulatory properties of a *Mangifera indica* L. extract on murine and human macrophages.**

[Marigliano N](#), Schettino A, Begum J, Mansour AA, Rimmer P, Iqbal TH, Scognamiglio G, Iqbal Jilani A, Bucci MR, Saviano A, Maione F (Napoli, Birmingham, Abha)

P6. **Exploring the anti-inflammatory and protective properties of *Achillea erba-rotta* subsp. *moschata* (Wulfen) I.Richardson in brain endothelial cells**

[Mercuriali B](#), Bottoni M, Milani F, Muluhe M, Giuliani C, Rzemieniec J, Castiglioni L, Fico G, Sironi L (Milano)

Sessione 2

Moderatore: Pagano E (Napoli)

P7. Brassicaceae-derived Erucin, an H₂S-releasing isothiocyanate, exerts anticancer effects on human triple negative breast cancer cells.

[Barile M](#), Bello I, Esposito C, D'Ariano M, Smimmo M, Bucci M, Cirino G, Panza E (Napoli)

P8. *In vitro* study of the enhancement of anthracycline cytotoxic activity through photoactivation.

[Neggiani G](#), Greco G, Turrini E, Calvaresi M, Fimognari C, Maffei F (Rimini, Bologna)

P9. Identification and validation of antisenescence activity of *Salvia haenkei* extract using a high throughput screening.

[Dieni C](#), Giacomini I, Cocetta V, Tinazzi M, Pinzerato M, Ragazzi E, Montopoli M (Padova)

P10. Mediterranean extract of *Sidnyum elegans*: a potential novel therapeutic agent against the triple-negative breast cancer.

[D'Ariano M](#), Esposito C, Barile M, Bello I, Casertano M, Imperatore C, Menna M, Sorrentino R, Mitidieri E, D'Emmanuele di Villa Bianca R, Panza E (Napoli)

P11. *C. cardunculus* L. subsp. *cardunculus*: antiangiogenic activity and formulation strategies.

[Cacciola A](#), De Gaetano F, D'Angelo V, Stancanelli R, Fais A, Tuberoso CIG, Ventura CA, Germanò MP (Messina, Monserrato)

P12. *Castanea sativa* Mill. bark extract: a chemopreventing agent inducing cytodifferentiation of a leukemic promyelocytic cell line.

[Rombolà F](#), Lenzi M (Bologna)

P13. Biological investigation of ferulenol and prenylated coumarin from toxic giant fennel (*Ferula communis* L.).

[Camola A](#), Sanna C, Rosa A, Pollastro F (Novara, Cagliari)

Sessione 3

Moderatore: Marcotullio CM (Perugia)

P14. *Helichrysum microphyllum* subsp. *tyrrhenicum*: a possible correlation between volatile compounds and phloroglucinols.

[Pollastro F](#), Allegrone G, Sanna C (Cagliari)

P15. *Aronia melanocarpa* fruits: preliminary studies on chemical composition and biological activity.

[Era B](#), Fais A, Smeriglio A, Floris S, Trombetta D, Porcedda S, Piras A (Monserrato, Messina)

P16. From olive mill processing waste to plant-based complexes for nutraceutical applications.

[Najlaoui A](#), Ingegneri M, Imbesi M, Trombetta D, Smeriglio A (Messina)

P17. Chemical markers in Italian propolis: chrysin, galangin and CAPE as indicators of geographic origin.

[Allodi M](#), Cappellucci G, Bains G, Pistone E S, Miraldi E, Costantino G, Spaggiari C, Biagi M (Parma, Siena)

P18. Non-volatile terpenoids and lipophilic flavonoids from *Achillea erba-rota* Subsp. *moschata* (Wulfen) I. Richardson.

[Salamone S](#), Rosa A, Pollastro F (Novara, Cagliari)

P19. Preliminary phytochemical investigations on *Prunus domestica* L. fruit.

[Giordano A](#), Bains G, Cappellucci G, Niccolucci V, Vaccaro F, Vidotto F, Miraldi E (Siena)

Sessione 4

Moderatore: Martino E (Padova)

P20. Recovery of bioactive compounds from the biomass of aromatic plants after distillation Using NADES: a sustainable alternative extraction method.

[Truzzi E](#), Bertelli D, Catellani B, Darvishi Jazi D, Benvenuti S (Modena)

P21. Health benefits of traditional infusions based on alpine *Artemisia* species: Chemical profile and biological potential.

Argentieri MP, Cappellari O, Cristiano E, [Diella MV](#), Iriti M, Vitalini S (Bari, Milano)

P22. Health-Promoting effects, phytochemical constituents and molecular genetic profile of the Purple Carrot 'Purple Sun' (*Daucus carota* L.).

[Maresca V](#), Capasso L, Rigano D, Stornaiuolo M, Sirignano C, Piacente S, Cerulli A, Marallo N, Basile A, Nebbioso A, Giordano D, Facchiano A, De Masi L and Bontempo P (Roma, Napoli, Fisciano, Avellino, Portici)

P23. Valorization of shea butter from local production in Benin: a phytochemical and pharmacological study.

[Di Sotto A](#), Percaccio E, Garzoli S, Minacori M, Corsetti L, Eufemi M, Stabile D, Giuliano M, Romano A (Roma, Campania)

P24. Phytochemical profile and *in vitro* bioactivities of the Italian tomato landrace Riccio di Parma.

[Di Sotto A](#), Vergine V, Baldani C, Corsetti L, Vitalone A, Mannina L, Ingallina C, Ambroselli D, Crestoni ME (Roma)

P25. Nutritional and bioactive potential of borlotto bean pod: a sustainable source for nutraceutical applications

[Imbesi M](#), Ingegneri M, Rando R, Mandrone M, Chiocchio I, Poli F, Smeriglio A, Trombetta D (Messina)

Sessione 5

Moderatore: Argentieri MP (Bari)

P26. Valorization of *Citrus bergamia* by-products: a sustainable approach for the prevention and treatment of metabolic diseases.

[Romeo M](#), Fucile M, Conforti F, Statti G (Rende))

P27. Effects of different cereals on diet-induced metabolic abnormalities: a focus on wheat and rye.

Almasri F, Aimaretti E, [Porchietto E](#), Schéle E, Dickson S, Landberg R, Frank J, Collino M (Hohenheim, Torino, Sweden)

P28. Investigating the bioactive potential of rice-bran-derived gamma Oryzanol in gut health.

[Tirelli E](#), Morandini S, Pucci M, Mac Sweeney E, Popescu V, Ribaudo G, Gianoncelli A, Mastinu A, Eleutieri A M, Uberti D, Cekarini V, Abate G (Brescia, Camerino)

P29. Zn-Spirulina Platensis as strategy to counteract advanced glycation end products accumulation and metabolic imbalance in a murine model of hypercaloric diet.

[Ferreira Alves G](#), Aimaretti E, Porchietto E, Mantegazza G, Gargari G, Collotta D, Einaudi G, Marzani E, Algeri A, Dal Bello F, Aragno M, Guglielmetti S, Mastrocola R, Collino M, Cifani C (Camerino, Torino, Milano, Mantova)

P30. Validation of the traditional use of aromatic plants from Valtellina (SO) by *in vitro* model of *H. pylori*-related gastritis.

[Maranta N](#), Martinelli G, Piazza S, Fumagalli M, Pozzoli C, Sonzogni E, El Haddad S M, Parolo G, Sangiovanni E, Dell'Agli M (Milano, Sondrio)

P31. Exploring the dual role of *Mangifera indica* L. in alleviating inflammation and abdominal pain in inflammatory bowel disease.

[Schettino A](#), Lucarini E, Marigliano N, Smimmo M, Romano F, Iaccarino N, Lombardi S, Izzo L, Scognamiglio G, Begum J, Mansour AA, Randazzo A, Greco KV, Iqbal AJ, Bucci M, Ghelardini C, Mannelli LDC, Saviano A, Maione F (Napoli, Firenze, Birmingham, Abha, UK, Sao Paolo)

P32. The impact of nutritional supplementation on dysbiosis: an *in vitro* evaluation of probiotics, vitamins, and plant extracts formulation in modulating intestinal barrier function.

[Tinazzi M](#), Sacilotto A, Cocetta V, Giacomini I, Pisciotto M, Raso F, Bulferi G, De Togni H, Lanza R, Consolo P, Berretta M, Montopoli M (Padova, Milano, Egna, Messina)

Sessione 6

Moderatore: Orlando G (Chieti)

P33. Astaxanthin and environmental stress: a preliminary study in keratinocytes and *Caenorhabditis elegans*.

[Pagliarani B](#), Pruccoli L, Balducci M, Tarozzi A (Rimini)

P34. Resins and essential oils formulated in lipid nanovesicles for dermatological applications.

[Vanti G](#), Panagiotidou E, Dina E, Grifoni L, Giachi G, Gardikis K, Aligiannis N, Bilia AR (Firenze, Athens)

P35. Official plants as new frontiers of cosmetic ingredients.

[Vitalone A](#), D'Andrea L, Di Sotto A, Caruso A, Parente R (Roma)

P36. *In vitro* and in silico study of *Sedum telephium* (L.) leaf juice: skin absorption and wound healing ability.

[Vidotto F](#), Cappellucci G, Bains G, Biagi M, Giordano A, Vaccaro F, Miraldi E (Siena, Parma)

P37. Non-volatile secondary metabolites from *Araucaria* Juss. species: exploring their potential for medicinal applications.

[Frezza C](#), De Vita D, Sciubba F, Toniolo C, Scintu C, Santi L, Attorre F (Roma)

P38. Hydrogen sulphide in erucin for the development of new treatments of psoriasis.

[Rizzi L](#), Martelli A, Pagnotta E, Ugolini L, Bresciani E, Meanti R, Sartori E, Calderone V, Torsello A (Milano, Pisa, Bologna)

P39. Isolation and characterization of exosome-like nanoparticles and their evaluation as agents/carriers in functional cosmetics

[Montagna S](#), Costantino G (Parma)

Sessione 7

Moderatore: Vitalone A (Roma)

P40. GABAA receptors are involved in the anti-epileptic effects of a polyphenol-rich extract of white grape juice.

[Farina M](#), Maugeri A, Russo C, Citraro R, Leo A, De Sarro G, Navarra M (Messina, Catanzaro)

P41. Evaluation of plant extracts on paclitaxel-treated C8-D1A mouse astrocytes, a potential new strategy against neuropathy.

[Spezzini J](#), Flori L, Di Cesare Mannelli L, Ghelardini C, Pagnotta E, Righetti L, Lanni C, Preda S, Brunetti L, Trabace L, Calderone V, Martelli A (Pisa, Firenze, Bologna, Pavia, Chieti, Foggia)

P42. PEA and DHA, two natural compounds in the autism spectrum disorder management.

[Filogamo F](#), Liguori FM, Cristiano C, Russo R (Napoli)

P43. A combination of 5-(3',4'-dihydroxyphenyl)-γ-valerolactone and curcumin synergistically reduces neuroinflammation in microglia by targeting the NLRP3 inflammasome and the NOX2/Nrf2 signaling pathway.

[Marcolin E](#), Chemello C, Ragazzi E, Zusso M (Padova)

P44. Evaluation of the combined effect of sulforaphane and isoliquiritigenin in a cellular model of neuroinflammation.

[Mantini M](#), Barbalace MC, Rinaldi I, Hrelia S, Malaguti M, Angeloni C (Bologna)

P45. Beneficial effects of a customized botanical dietary supplement produced by an innovative vertical farming system in an *in vitro* model of neuroinflammation.

[Camillò L](#), Capitani L, Marzani E, Bastianello A, Algeri A, Spampinato SF, Collino M (Torino, Guidizzolo)

Sabato 12 Aprile

10.30-11.30

Sessione 8

Moderatore: Trombetta D (Messina)

P46. **Brain boosters from cannabis: CBGA and CBDA show promise in beating memory loss.**
[Limongelli R](#), Vitale RM, Morace AM, Ricciardi F, Fusco A, Boccella S, Guida F, Iannotti FA, Luongo L, Amodeo P, Maione S (Napoli)

P47. **Effect of cannabidiol in combination with alpha lipoic acid and resveratrol the psychotropic changes associated with social isolation.**
[Teweldemedhin MM](#), Belardo C, Infantino R, Boccella S, Morace AM, Perrone M, Guida F, Maione S, Luongo L (Napoli)

P48. **Elucidating the molecular mechanisms of oleocanthal in neuroinflammation.**
[Rinaldi I](#), Barbalace MC, Freschi M, Mantini M, Malaguti M, Ortore G, Hrelia S, Giusti L, Digiacomio M, Angeloni C (Bologna, Meldola, Pisa, Camerino)

P49. **Silybin overcomes doxorubicin resistance in colorectal cancer cells by targeting GLUT1**
[Cocetta V](#), Giacomini I, Tinazzi M, Gabbia D, Carrara M, Montopoli M (Padova)

P50. **Activity of a phytocomplex from in vitro cell culture of *Zanthoxylum piperitum* (L.) DC. on human fibroblasts.**
[Baini G](#), Rigillo G, Pressi G, Cappellucci G, Biagi M (Siena, Modena, Camisano Vicentino, Parma)

P51. **Pinosylvin identified in *Pinus nigra* subsp. *laricio* inhibits LPS-induced inflammation in RAW 264.7 cells by suppressing pro-inflammatory cytokines and mediators and by downregulating the JAK/STAT Signaling Pathway**
Perri MR, Statti G, [Conforti F](#) (Rende)

Sessione 9

Moderatore: Mastinu A (Brescia)

P52. Antioxidant and wound repairing effect of protolichesterinic acid from *Cetraria islandica* in an *in vitro* model of intestinal inflammation.

Rispoli RM, Villicaña González E, [Brizzi A](#), Schwaiger S, Marzocco S (Fisciano, Innsbruck)

P53. Antibacterial, antioxidant and anti-inflammatory properties of essential oils in combination.

Galletta B, Ginestra G, Micale N, Nostro A, Naccari C, [Cristani M](#) (Messina, Catanzaro)

P54. Determination of phenolic content, antioxidant activity, and brine shrimp toxicity of the aerial part extracts from *Sinapis alba* and *Sinapis arvensis* (Brassicaceae) growing wild in Sicily (Italy).

[Davì F](#), Taviano MF, Raimondo FM, Ragusa S, Spadaro V, Miceli N (Messina, Palermo)

P55. Exploring new lamiaceae extracts to counteract oxidative stress and cellular senescence in *in vitro* models.

[Pinzerato M](#), Giacomini I, Cocetta V, Tinazzi M, Dieni C, Ragazzi E, Montopoli M (Padova)

P56. Correlation between sustainable agronomic practices and antioxidant potential: focus on leaves' extracts of three medicinal mediterranean wild species.

[Trabalzini A](#), Fornaciari M, Sardella R, Varfaj I, Sorci G, Orlandi F (Perugia)

P57. Role of purple corn anthocyanins against Doxorubicin-induced cardiotoxicity: an insight into NF- κ B pathway.

[Toccaceli M](#), Marinelli A, Tonelli C, Petroni K (Milano)

Sessione 10

Moderatore: Lenzi M (Bologna)

P58. Exploring the chemical diversity of *Cannabis sativa* essential oils: a study on four selected genotypes.

[Bozzini MF](#), Pieracci Y, Ascrizzi R, Paris R, Bassolino L, Paganelli S, Panzani S, Díaz Guerrero P, Venturi F, Turchi B, Fratini F, Flamini G (Pisa, Bologna, Modena, Reggio Emilia)

P59. Phytochemical analysis and biological activities of *Odontites vulgaris* Moench.

[Baldani C](#), Percaccio E, Frezza C, De Vita D, Sciubba F, Foddai S, Di Sotto A (Roma)

P60. Characterization and quality control of herbal drugs.

[Marra F](#), Pesce J, Ghiotti D, Lambertini S, Solimeo I, Cersosimo A (Rende, Cassina Rizzardi)

P61. Investigating the anti-aging benefits of *Salvia haenkei*: an *in vivo* approach.

[Giacomini I](#), Sarill M, Cocetta V, Tinazzi M, Alimonti A, Giori AM, Montopoli M (Padova, Svizzera)

P62. Innovative breeding system to develop new crop strategies to obtain pharmaceutical metabolites.

Radice RP, [De Fabrizio V](#), Padula F, Iannelli V, D'Arienzo G, Martelli G (Salerno, Basilicata)

P63. Exploring the medicinal value of nature reserves: the case of Bosco Siro Negri

Cavalloro V, Fossati A, Bracco F, Collina S, [Martino E](#) (Ferrara, Palermo, Pavia)

Sessione 11

Moderatore: Antognoni F (Bologna)

P64. Ecosystem services and phytotherapeutic valorization of resilient species.

[Santandrea A](#), Lupia C, Fucile M, Zicarelli L, Canora G, Toma C, Conforti F & Statti G (Rende, Castelluccio Superiore, Sersale, Arad, Fisciano)

P65. Hemp byproducts: optimizing supercritical extraction and unveiling antimicrobial potential.

[Foletti ME](#), Kupe A, Sacchetti G, Tacchini M (Ferrara)

P66. *Erucastrum virgatum* subsp. *virgatum* (Brassicaceae) endemic to Sicily (Italy) as a new potential source of health-promoting phytochemicals: phenolic content and biological properties of leaf extracts.

[Galletta B](#), Miceli N, Mondello F, Davì F, Cacciola F, Laganà Vinci R, Mondello L, Nostro A, Taviano MF (Messina)

P67. Harnessing essential oils for sustainable agriculture: effects on germination and biochemical features of chickpea.

[Desideri S](#), Et-tazy L, Fedeli R, Loppi S (Siena, Morocco, Palermo)

P68. LC-ESI/HRMS-guided isolation of alkylamides from *Echinacea angustifolia* roots.

[Paolillo A](#), Masullo M, Piacente S (Fisciano)

P69. Mass spectrometry-based specialized metabolite profiling of three *Salicornia* species extracts with potential antidiabetic activity.

[Cioni E](#), De Leo M, Braca A, Camangi F, Macellaro A, Milella L (Pisa, Potenza)

P70. Evaluation of different analytical methods in the titration of plant extract-based products.

[Ghiotti D](#), Lambertini S, Rossi R, Pesce J, Marra F (Calabria)

Sessione 12

Moderatore: Di Sotto A (Roma)

P71. Enhancement of the biological activity of plant extracts for phytotherapeutic use: the Bergafort® case.

[Vaccarella A](#), Fucile M, Zicarelli L, Conforti F, Statti G (Mendicino, Cosenza)

P72. *Daucus carota* pulp calli genetic transformation for antioxidant bioactive compounds production

[Maricchiolo E](#), Creanza P, Paolucci F, Micucci M, Rauti R, Osnato M, Pompa A (Urbino)

P73. In vitro evaluation of the cytotoxic and genotoxic potential of organic cyanobacteria extracts from the Bagni San Filippo thermal waters.

[La Rosa S](#), Turrini E, Esposito G, Costantino V, Fimognari C (Rimini, Napoli)

P74. Anthocyanins as a possible strategy to protect against mycotoxin toxicity.

[Marinelli A](#), Petroni K (Milano)

P75. *Trifolium pratense* extract mitigates skeletal muscle atrophy: a nutraceutical approach for the prevention of sarcopenia.

[Meskine H](#), Raiteri T, Paiella M, Trabalzini A, Varfaj I, Salvadori L, Riuzzi F, Sardella R, Orlandi F, Filigheddu N, Sorci G (Novara, Perugia)

P76. A novel aromatherapy formulation utilizing *Pinus cembra* essential oil to enhance relaxation and sleep quality.

[Iacobelli M](#), Ranaulo A, Napolitano D, Altmann F (Techitra Srl)

P77. Safety and efficacy of Red Yeast Rice supplements: new evidences of the literature and regulatory implications.

[Santoro G](#), Fucile M, Statti G, Conforti F (Rende)

Sessione 13

Moderatore: Fais A (Cagliari)

P78. Safety profile of *Hypericum perforatum* medicinal products released in European countries.

[Currò M](#), Ammendolia I, Mannucci C, Calapai G, Midiri P, Cardia L, Nasso E, Calapai F, Arcoraci V (Messina)

P79. Analysis of suspected adverse reactions to *Whitania somnifera* containing products reported to the Italian Phytovigilance System.

[Di Giacomo S](#), Ippoliti I, Marano G, Mazzanti G, Moro PA, Menniti-Ippolito F (Roma, Milano)

P80. Design of a food supplement based on plant derivatives: from raw materials to laboratory prototype

[Pesce J](#), Marra F, Ghiotti D, Solimeo I, Lambertini S (Calabria)

P81. Protective effects of *Olea europea*, *Scutellaria baicalensis* and policosanols on mouse cardiac tissue.

[Centulio AP](#), Ciaramellano D, Genovesi G, Leone S, Recinella L, Libero ML, Acquaviva A, Orlando G, Chiavaroli A, Ferrante C, Menghini L, Di Simone S, Brunetti L (Chieti, Torrevicchia Teatina)

P82. The role of perivascular adipose tissue in the vascular activity of the natural coumarin osthole.

[De Rosa F](#), Rosadini C, Panti A, Fusi F (Siena)

P83. Protective effect of extracts from *Origanum majorana* L. (Lamiaceae) against hemin-induced oxidative stress in human cardiomyocytes.

[Bianchi S](#), Acquaviva R, Di Giacomo C, Tomasello B, La Mantia A, Malfa GA (Catania)

P84. Hyaluronic acid-based nanoparticles loaded with rutin as vasculo-protective tools against anthracycline-induced cardiotoxicity.

[Quagliariello V](#), Serri C, Cruz-Maya I, Guarino V, Maurea N, Giunchedi P, Rassu G, Montopoli M, Gavini E (Napoli, Sassari, Padova)

Sessione 14

Moderatore: Recinella L (Chieti)

P85. **Ellagic acid improves the cardiac contractility through the intracellular calcium handling.**
[Carbonetti L](#), Benedetti G, Calderone V, Testai L (Pisa)

P86. **Erucin, a natural (H₂S) donor, improves multiorgan-damage in Heart Failure with preserved Ejection Fraction.**
[Persico G](#), Smimmo M, Casale V, Riemma A, de Angelis A, Vellecco V, Bucci M (Napoli)

P87. **Hyperxanthone G as a regulator of gut oxidative stress and inflammatory responses.**
[Rispoli RM](#), Shahraki A, Autore G, Farimani MM, Alilou M, Marzocco S (Fisciano, Tehran, Innsbruck)

P88. **Improving *Rosmarinus officinalis* L. extracts' health potential with *Bacillus* G36 metabolites formulated in AgNP**
[Fuente-Gonzalez E](#), Ramos-Solano B, Gutierrez Albanchez E, Di Sotto A, Gutierrez-Mañero FJ (Madrid, Roma)

P89. **Evaluation of the chemical profile and anti-viral potential of Jujube (*Ziziphus jujuba* Mill.) Drupes**
[Chianese A](#), Mushtaq H, Giugliano R, Ambrosino A, Morone MV, Khan H, Piccolella S, Zannella C, Pacifico S, De Filippis A, Galdiero M (Napoli, Caserta)

P90. **Medium-Term Effects of a Polyphenol-Rich Drink made from Red Grape Pomace Extract on Non-Alcoholic Fatty Liver Disease and Cardiometabolic Risk Profile in Individuals with Type 2 Diabetes Mellitus**
[Testa R](#), Costabile G, Giacco R, Vitale M, D'abbronzo G, Quaglia C, Giosuè A, Bozzetto L (Napoli, Avellino)

P91. **Phytosterols and policosanols from sorghum extracts modulate NPC1L1 expression: a new frontier against hypercholesterolemia**
[Lonati E](#), Caronni S, Cazzaniga E, Botto L, Palestini P, Citterio S, Bulbarelli A (Milano)

Con il contributo non condizionante di:



Fondazione Enrico ed Enrica Sovena



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