



SOCIETÀ ITALIANA DI FARMACOLOGIA

**Gruppo di Lavoro
Farmacognosia, Fitoterapia e Nutraceutica**

CONVEGNO MONOTEMATICO
Le basi farmacologiche dei Nutraceutici



Hotel Royal Continental, Via Partenope, 38
NAPOLI 29-30 marzo 2019

Programma

Comitato Organizzatore

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Con il patrocinio di

Università degli Studi di Napoli Federico II

Ordine dei Farmacisti della Provincia di Napoli

Federfarma Napoli

Programma

Venerdi 29 Marzo

12.30-14.00 Registrazione dei Partecipanti

Sala Vesuvio

14.00-14.30 Saluti di benvenuto (Magnifico Rettore dell'Università degli Studi di Napoli Federico II, Presidente SIF, Comitato Organizzatore, Direttore Dipartimento di Farmacia, Napoli Federico II, Direttore Dipartimento di Agraria, Napoli Federico II)

14.30-15.00 Lettura magistrale: **Impact of Mediterranean diet on gut microbiota**
Ercolini D. (Napoli)

15.00-16.45 Sessione: Farmacologia clinica

Sala Vesuvio

Moderatori: Mugelli A (Firenze) – Racagni G (Milano)

15.00-15.15 **Clinical evaluation of a new Hydroxytyrosol and Vitamin E-based nutraceutical formulation on pediatric NAFLD**

Smeriglio A., Nobili N, Alisi A, Mosca A, Crudele A, Zaffina S, Denaro M, Trombetta D (Messina, Roma)

15.15-15.30 **Caffeine intake during pregnancy and neonatal low birth weight: data from a multicenter Italian retrospective study**

Mannucci C., Calapai F, Facchinetti F, D'Anna R, Santamaria A, Lenti MC, Vannacci A, Perone M, Cardia L., Sorbara EE, Oteri A, Calapai G (Messina)

15.30-15.45 **Vitamin D replacement ameliorates serum lipoprotein functions, adipokine profile and subclinical atherosclerosis in pre-menopausal women**

Zimetti F., Greco D, Kocyigit D, Adorni MP, Marchi C, Ronda N, Gurses KM, Canpinar H, Guc D, Oguz SH, Gurlek A, Strazzella A, Simonelli S, Tokgozoglu L, Bernini F (Parma, Ankara, Konya, Milano)

15.45-16.00 **Effect of a novel nutraceutical combination on serum lipoprotein functional profile and circulating PCSK9**

Adorni MP., Ferri N, Marchianò S, Trimarco V, Rozza F, Izzo R, Zimetti F, Bernini F (Parma, Padova, Milano, Napoli)

16.00-16.15 **Whey protein isolate supplementation improves body composition, muscle strength and treatment tolerance in malnourished advanced cancer patients undergoing chemotherapy**

Cereda E, Ferrari A., Turri A, Klersy C, Cappello S, Imarisio I, Caraccia M, Zuccarini A, Cicognini D, Borioli V, Monaco T, Stella GM, Arcaini L, Pedrazzoli P, Caccialanza R (Pavia)

16.15-16.30 **A novel nutraceutical formulation from winemaking by-products for the control of circulating oxidative stress markers: a randomized clinical trial**

Annunziata G., Caruso D, Buonomo G, D'Avino M, Tenore GC, Novellino E (Napoli, Benevento)

16.30-16.45 **Polyphenol health effects on cardiovascular disorders: myth or truth?**

Poti F, Zimetti F, Spaggiari G, Santi D, Zanotti I (Parma, Modena-Reggio Emilia)

16.45-17.15 *Coffee break*

17.15-19.00 Sessione: Infiammazione

Sala Vesuvio

Moderatori: Ghelardini C (Firenze) – Cirino G (Napoli)

17.15-17.30 Protective effects of cyanidin-3-O-glucoside on human epithelial cells exposed to palmitic acid

Muscarà C, Bashllari R, Molonia MS, Occhiuto C, Cristani M, Saija A, Cimino F, Speciale A (Messina)

17.30-17.45 Hydroxytyrosol-3O sulfate prevents Endothelial-to-Mesenchymal Transition induced by inflammatory environment

Nannelli G, Terzuoli E, Ziche M, Donnini S, Morbidelli L (Siena)

17.45-18.00 Erucin, a H₂S-donor from *Eruca sativa* Mill. exhibits protective effects at vascular level against oxidative and pro-inflammatory stimuli

Martelli A, Piragine E, Citi V, Testai L, Matteo R, Ugolini L, Pagnotta E, Lazzeri L, Di Cesare Mannelli L, Vellecco V, Brancaleone V, Bucci M, Ghelardini C, Calderone V (Pisa, Bologna, Firenze, Napoli, Potenza)

18.00-18.15 Anti-ageing activity of *Salvia haenkei* in an *in vitro* epidermal model

Cocetta V, Cadau J, Catanzaro D, Saponaro M, Miolo G, Ragazzi E, Alimonti A, Montopoli M (Padova, Bellinzona)

18.15-18.30 Tannins from Chestnut (*Castanea sativa* Mill.) leaves and fruits show promising *in vitro* anti-inflammatory properties in gastric epithelial cells

Piazza S, Sangiovanni E, Vrhovsek U, Fumagalli M, Khalilpour S, Masuero D, Colombo L, Mattivi F, De Fabiani E, Dell'Agli M (Milano, San Michele all'Adige, Varese)

18.30-18.45 Plumericin reduces intestinal inflammation and oxidative stress: *in vitro* and *in vivo* studies

Rapa SF, Waltenberger B, Di Paola R, Autore G, Cuzzocrea S, Stuppner H, Marzocco S. (Salerno, Innsbruck, Messina)

18.45-19.00 Graminex pollen: protective effects in immortalized prostate cells (PC3) and rat prostate challenged with LPS

Recinella L, Locatelli M, Macchione N, Ferrante C, Chiavaroli A, Carradori S, Zengin G, Cesa S, Leporini L, Leone S, Brunetti L, Menghini L, Orlando G (Chieti, Milano, Konya, Roma)

17.15-19.00 Sessione: Neuroscienze

Sala Posillipo

Moderatori: Calapai G (Messina) - Calignano A (Napoli)

17.15-17.30 Resveratrol treatment reduces the vulnerability of SH-SY5Y cells and cortical neurons overexpressing SOD1-G93A to Thimerosal toxicity

Sirabella R, Laudati G, Mascolo L, Guida N, Pizzorusso V, Serani A, Di Renzo G, Canzoniero L MT, Formisano L (Napoli)

17.30-17.45 Effects of *Ginkgo biloba* L. (GK501) and *Panax ginseng* C.A. Meyer (G115) and their combination in organotypic hippocampal slice cultures and mixed cortical cells exposed to excitotoxic insults

Landucci E, Bilia AR, Pellegrini-Giampietro D, Bergonzi MC (Firenze)

17.45-18.00 Purple corn extract as adjuvant therapy for the prevention and treatment of trigeminal pain: role of microglia and of the gut microbiota

Magni G, Marinelli A, Riccio D, Lecca D, Milani C, Ventura M, Abbracchio MP, Tonelli C, Petroni K, Ceruti S (Milano)

18.00-18.15 Implication of gluten peptides on neurological disorders: study of molecular mechanisms in experimental models of epilepsy

Gerace E, Resta F, Landucci E, Renzi D, Masi A, Pellegrini-Giampietro D E, Calabrò A, Mannaioni G. (Firenze)

18.15-18.30 Pomegranate-derived nutraceuticals: from gut health to abdominal pain relief

Lucarini E, Parisio C, Micheli L, Mulinacci N, Ghelardini C, Di Cesare Mannelli L (Firenze)

18.30-18.45 Altered gut microbiota and endocannabinoid system tone in vitamin D deficiency-mediated chronic pain

Boccella S, Guida F, Belardo C, Iannotta M, Piscitelli F, De Filippis F, Paino S, Ricciardi F, Siniscalco D, Marabese I, Luongo L, Ercolini D, Di Marzo V, Maione S (Napoli, Pozzuoli)

18.45-19.00 Dietary depletion of chicken egg exosomes and their cargo affects the gene expression profile in right and left hippocampus and impairs cognitive performance in C57BL/6 mice

Fratantonio D, Shu J, Cui J, Zemleni J (Roma)

20.30 Serata Pizza

8.45-10.45 Sessione: Metabolismo ed obesità

Moderatori: Mazzanti G (Roma) – Bernini F (Parma)

8.45-9.00 Extra virgin olive oil polyphenols modulate the expression of key inflammatory genes and miRNAs in human adipocytes

Carpi S, Massaro M, Polini B, Digiacomio M, Manera M, Scoditti E, Nieri P (Pisa, Lecce)

9.00-9.15 Oleacein, a polyphenol of olive oil, modulates expression of adipogenesis markers in adipose tissue of high-fat diet fed mice

Maggisano V, Lepore SM, Bulotta S, Mignogna C, Arcidiacono B, Iannone M, Brunetti A, Russo D, Celano M (Catanzaro)

9.15-9.30 A study about the effect of fruit phytochemicals on the glucose and phenols intestinal absorption in a Caco-2TC7 monolayer model, by means of glucose and polyphenols amperometric biosensors

Rocchitta G, Bacciu A, Arrigo P, Barberis A, Spissu Y, Bazzu G, Serra PA (Sassari)

9.30-9.45 Lycopene activates brown adipose tissue through PPAR γ stimulation and might be effective for the treatment of obesity

Irrera N, Mannino F, Pallio G, Altavilla D, Squadrito F, Bitto A (Messina)

9.45-10.00 Water-soluble extract of *Morus alba* is able to lower the expression of proprotein convertase subtilisin/kexin type 9 in hepatoma cell lines with benefic effects on LDL cholesterol-uptake

Lupo MG, Macchi C, Marchianò S, Corsini A, Ruscica M, Ferri N (Padova, Milano)

10.00-10.15 The marine microalgae *Tisochrysis lutea* attenuate high-fat-induced Metabolic Syndrome in Rat.

Cinci L, D'ambrosio M, Bigagli E, Zambelli F, Cesario G, Niccolai A, Biondi N, Rodolfi L, Tredici MR, Luceri C (Firenze)

10.15-10.30 *Citrus bergamia* juice extract and its major flavanones: a treasure trove for the interaction with the AMPK/SIRT1 axis

Maugeri A, Ferlazzo N, Musumeci L, Russo C, Gitto R, De Luca L, Navarra M (Messina)

10.30-10.45 *In vitro* protective effects of a *Glycyrrhiza glabra* L. leaf extract on palmitate-induced insulin resistance in endothelial cells

Molonia MS, Occhiuto C, Cristani M, Siracusa L, Rocco C, Ruberto G, Saija A, Cimino F, Speciale A (Messina, Catania)

10.45-11.45 Coffee break e sessione poster

11.45-13.00 Sessione: Antitumorali ed antinfettivi

Moderatori: Mascolo N (Napoli) – Calderone V (Pisa)

11.45-12.00 Natural products from various sources prevent colon carcinogenesis and increase apoptosis in the Pirc rat (*F344/NTAC-Apc^{am1137}*), a genetic model of colorectal cancer

Tortora K, Femia AP, Luceri C, Giovannelli L, Caderni G (Firenze)

12.00-12.15 Potential chemopreventive and therapeutic effects of cynaropicrin in metastatic melanoma

De Cicco P, Busà R, Ercolano G, Formisano C, Taglialatela-Scafati O, Ianaro A (Napoli, Palermo)

12.15-12.30 The anti-proliferative and anti-metastatic effects of oleacein in SH-SY5Y human neuroblastoma cells

Cirmi S, Lombardo GE, Musumeci L, Russo C, Maggisano V, Celano M, Russo D, Navarra M (Messina, Catanzaro)

12.30-12.45 Saffron byproducts as sources of bioactive extracts: pharmacological and toxicological focus on anthers

Ferrante C, Menghini L, Chichiriccò G, Recinella L, Leone S, Chiavaroli A, Brunetti L, Di Simone S, Ronci M, Piccone P, Lanza B, Cesa S, Poma A, Vecchiotti G, Orlando G (Chieti)

12.45-13.00 New potential nutraceutical application and chemical characterization of Humic extract from green compost.

Verrillo M, Salzano M, Cozzolino V, Spaccini R, Piccolo A (Napoli)

13.00 Premiazione e Chiusura del Convegno

13.30-14.00 Riunione del Gruppo di Lavoro di Farmacognosia, Fitoterapia e Nutraceutica

Sessione poster sabato 30 Marzo ore 10.45-11.45

Sala Giardino

Moderatori: Testai L (Pisa) - Russo A (Catania) - Morbidelli L (Siena) - Caderni G (Firenze) - Dell'Agli M (Milano) – Orlando G (Chieti) – Avato P (Bari)

Sessione 1

P1. Effect of 8-week n-3 fatty-acids supplementation on oxidative stress and inflammation in middle and long distance running athletes

Buonocore D, Verri M, Doria E, Ghitti M, Cattaneo L, Dossena M (Pavia)

P2. May natural supplements alter the urinary LH and steroid's profiles in antidoping analyses? A pilot study

Alberti F, Braganò MC, de la Torre X, Iannone M, Botrè F (Roma)

P3. Pros and cons of pure molecules and plant extracts in nutraceutical field: the ideain vs pistachio hull extract case

Denaro M, Smeriglio A, Trombetta D (Messina)

P4. Role of nutrition in neurodegenerative disease

Rizzi L, Bianchi V (Milano)

P5. Pharmacological effects of the standardized Lipidosterolic Extract from *Kigelia africana* fruits in experimental Benign Prostatic Hyperplasia induced by testosterone in Sprague Dawley Rats

De Pasquale D, Occhiuto C, Aloisi I, Santoro G, Tranchida PQ, Mondello L, Puglisi G, Occhiuto F (Messina)

P6. The paradox of toxicological studies on nutraceuticals

Nunziata A, Bianco S, Le Donne M (Pomezia)

Sessione 2

P7. Antioxidant and Antiinflammatory Activities of Polyphenolic Rich Ethyl Acetate Fraction from *C. incanus* Leaves

D'Ambrosio M, Bigagli E, Cinci L, Gori A, Brunetti C, Luceri C (Firenze)

P8. Efficacy of xyloglucan against *Escherichia coli* urinary tract infection: *in vivo* study

Campolo M, Casili G, Lanza M., Franco D, Fazio E, Filippone A, Paterniti I, Peritore A, Cuzzocrea S and Esposito E (Messina)

P9. Strawberry tannins as potential ingredients of nutraceuticals to counteract *H. pylori*-induced gastric inflammation

Martinelli G, Fumagalli M, Sperandeo P, Sangiovanni E, Piazza S, Polissi A, De Fabiani E, Dell'Agli M (Milano)

P10. Sodium propionate protects from inflammation and ROS stress

Filippone A, Paterniti I, Campolo M, Lanza M, Casili G, Cuzzocrea S, Esposito E (Messina)

P11. Vitamin E supplementation prevents allergen sensitization in the mouse

Cerqua I, Koeberle A, Riemma MA, Rossi A, Cirino G, Roviezzo F (Napoli, Jena)

P12. α -T-13'-carboxychromanol, an endogenous metabolite of vitamin E, limits inflammation by targeting 5-lipoxygenase

Bilancia R, Pein H, Pace S, Ialenti A, Sautebin L, Rossi A, Werz O, Koeberle A (Napoli, Jena)

P13. Evidence for a beneficial effect of caffeine in psoriasis-like inflammation

Caiazza E, Morello S, Ialenti A, Cicala C (Napoli, Salerno)

Sessione 3

P14. Peptides released after simulated gastrointestinal digestion of dehydrated chips exert antiinflammatory activity in intestinal epithelial cells

Rapa SF, Cianciarulo D, Basilicata MG, Pepe G, Sommella E, Manfra M, Rago R, Rago G, Autore G, Campiglia P, Marzocco S (Salerno, Potenza, Battipaglia)

P15. Polyphenolic extract from Tarocco (*Citrus sinensis* L.Osbeck) clone "Lempso" exerts anti-inflammatory and antioxidant effects via NF-kB and Nrf-2 activation in murine macrophages

Cianciarulo D, Basilicata MG, Pepe G, Sommella E, Russo M, Manfra M, Autore G, Campiglia P, Marzocco S (Salerno, Potenza, Reggio Calabria)

P16. *Aloe vera* gel and *Punica granatum* onconutraceutical potential in intestinal epithelial cells during oxidative stress and inflammatory conditions

Cianciarulo D, Rapa SF, Merciai F, Salviati E, Pepe G, Sommella E, Profili R, Manfra M, Autore G, Campiglia P, Marzocco S (Salerno, Potenza)

P17. Antiinflammatory effects of *T-isochrysis lutea* and *Arthrospira platensis* M2 extracts and of their main bioactive compounds

Luceri C, Bigagli E, Cinci L, D'Ambrosio M, Niccolai A, Biondi N, Rodolfi L, Tredici MR (Firenze)

P18. Polyphenolic composition, enzyme inhibitory effects ex-vivo and in-vivo studies on two Brassicaceae of north-central Italy

Leone S, Orlando G, Ferrante C, Menghini L, Recinella L, Chiavaroli A, Leporini L, Di Nisio C, Mollica A, Stefanucci A, Zengin G, Locatelli M, Macedonio G, Tayrab E, Ali I, Musa TH, Musa HH, Ahmed AA, Brunetti L (Chieti, Konya, Khartoum, Nanjing)

P19. *Crocus sativus*, *Serenoa repens* and *Pinus massoniana* extracts modulate inflammatory response in isolated rat prostate challenged with LPS

Chiavaroli A, Recinella L, Ferrante C, Locatelli M, Carradori S, Macchione N, Zengin G, Leporini L, Leone S, Martinotti S, Brunetti L, Vacca M, Menghini L, Orlando G (Chieti, Milano, Konya)

P20. Anti-inflammatory and antioxidant effects of anchovy (*Engraulis encrasicolus*) by-products protein hydrolysates

Lanza M, Mangano V, Salvo A, Filippone A, Casili G, Lanteri G, Briguglio G, Capparucci F, Esposito E, Macri F (Messina)

Sessione 4

P21. Ultra-micronized palmitoylethanolamide rescues the cognitive decline-associated loss of neural plasticity in the neuropathic mouse entorhinal cortex-dentate gyrus pathway

Iannotta M, Boccella S, Cristiano C, Belardo C, Romano R, Farina A, Guida F, Piscitelli F, Palazzo E, Mazzitelli M, Imperatore R, Tunisi L, de Novellis V, Cristino L, Di Marzo V, Calignano A, Maione S, Luongo L (Napoli, Benevento, Pozzuoli, Lubbock)

P22. *In vitro* and *in vivo* evidence for the use of *Vitis vinifera* hydroalcoholic extract against oxaliplatin neurotoxicity

Micheli L, Ghelardini C, Mattoli L, Maidecchi A, Parisio C, Lucarini E, Pacini A, Di Cesare Mannelli L (Firenze, Sansepolcro)

P23. D-Aspartate drinking solution alleviates pain and cognitive impairment in neuropathic mice

Belardo C, Palazzo E, Luongo L, Guida F, Marabese I, Romano R, Iannotta M, Rossi F, D'Aniello A, Stella L, Marmo F, Usiello A, de Bartolomeis A, Maione S, de Novellis V (Napoli)

P24. Effect of Ribodiet®, a ribonucleotide-based formulation, in a mouse model of Alzheimer's disease

Raucci F, Sgherbini A, Pedretti N, Saviano A, Russo M, Casillo GM, Daglia M, Maione F (Napoli, Bergamo, Pavia)

P25. Neuroprotective effect of sodium propionate in *in vitro* and *in vivo* models

Paterniti I, Filippone A, Campolo M, Lanza M, Casili G, Cuzzocrea S, Esposito E (Messina)

P26. Gender and age- dependency of the effects of Bud extracts from *Tilia tomentosa* Moench in central nervous system

Olivero G, Vallarino G, Cervia I, Turrini F, Boggia R, Zunin P, Donno D, Beccaro GL, Pittaluga A, Grilli M (Genova, Torino)

P27. Effect of *Eruca sativa* meal and glucoerucin in diabetic neuropathic pain in mice

Parisio C, Pagnotta E, Lucarini E, Micheli L, Testai L, Martelli A, Di Cesare Mannelli L, Calderone V, Lazzeri L, Matteo R, Ugolini R, Ghelardini C (Firenze, Bologna, Pisa)

Sessione 5

P28. Nutraceutical effects of an *Eruca sativa* seed extract in an experimental model of metabolic syndrome

Flori L, Piragine E, Citi V, Martelli A, Pagnotta E, Ugolini L, Matteo R, Di Cesare Mannelli L, Lazzeri L, Ghelardini C, Calderone V, Testai L (Pisa, Firenze, Bologna)

P29. Discovery of potential pancreatic lipase inhibitors from *Salvia miltiorrhiza* Bunge

Conforti F, Marrelli M, Grande F, Occhiuzzi MA, Maione F, Mascolo N (Rende, Napoli)

P30. Silybin as a new tool to counteract doxorubicin resistance by targeting glucose uptake

Giacomini I, Catanzaro D, Gabbia D, Cocetta V, Biagi M, Ragazzi E, Montopoli M, Carrara M (Padova, Siena)

P31. *Allium cepa* L. var. Tropea: a source of nutraceuticals with anti-obesity potential

Marrelli M, Meleleo D, Mallamaci R, Argentieri MP, Conforti F, Avato P (Rende, Bari)

P32. Antihyperglycemic effects of the ethyl acetate extract from the peel of *Punica granatum* L. var. Dente di cavallo: a possible nutraceutical application of a food waste

Di Giacomo S, Locatelli M, Toniolo C, Cacciagrano F, Vitalone A, Mazzanti G, Carradori S, Cesa S, Di Sotto A (Roma, Chieti)

P33. Preventing Adolescent Stress-induced Cognitive and Microbiome Changes by Omega 3 – PUFA/Vitamin A Diet Enrichment

Provensi G, Schmidt SD, Boehme M, Rani B, Costa A, Blandina P, Izquierdo I, Cryan JF, Passani MB (Firenze Porto Alegre, Cork)

Sessione 6

P34. Effect of polygodial on human melanoma cells: Role of Hsp70 protein

Russo A, Cardile V, Graziano ACE, Avola R, Madrid A (Catania, Valparaíso)

P35. Quercetin and Cisplatin combined treatment alter cell cycle and sensitize resistant cancer cell lines

Catanzaro D, Giacomini I, Vianello C, Ragazzi E, Montopoli M (Padova)

P6. Preclinical evaluation of tanshinones from *Salvia miltiorrhiza* Bunge on human glioblastoma models *in vitro*

Piccolo M, Ferraro MG, Maione F, Tammaro C, Raucci F, Fattorusso A, Santamaria R, Irace C (Napoli)

P37. Biological activity of *Capsicum annum* cv Senise on IHH cell line

Sinisgalli C, Ostuni A, Castiglione Morelli MA, Tirrico S, De Benedettis MG, Milella L (Potenza)

P38. Curcuma and garlic as backbone for new nature-inspired hybrids as multi-pharmacological agents: focus on BDNF modulation

Catanzaro M, Fagiani F, Basagni F, Govoni S, Racchi M, Rosini M, Lanni C (Pavia, Bologna)

P39. Evaluation of onconutraceutical potential of vegetable smoothies in cardiomyocytes and breast cancer cell lines

Rapa SE, Salviati E, Cianciarulo D, Pepe G, Sommella E, Coppola D, Coppola L, Manfra M, Autore G, Marzocco S, Campiglia P (Salerno, Scafati, Potenza)

Sessione 7

P40. Chemical Compounds Extracted From Agricultural Waste: Characterization And Evaluation Of Antioxidant Activity

Salzano M, Verrillo M, Cozzolino V, Vinci G, Spaccini R, Piccolo A (Napoli)

P41. Design and characterization of an integrate dialytic system coupled with amperometric microsensors for the dynamic quantification of ascorbic acid and total polyphenols in the Pompia fruits.

Bacciu A, Arrigo P, Pala S, Bazzu G, Migheli R, Serra PA, Rocchitta G (Sassari)

P42. Development and characterization of a new microdialytic-electrochemical device for the extraction and quantification of total polyphenols present in Extra Virgin Olive Oil (EVOO)

Arrigo P, Molinu MG, Dore A, Bacciu A, Mastinu M, Bazzu G, Rocchitta G, Serra PA (Sassari)

P43. Phytochemical and biological characterization of methanolic extracts from Tunisian *Rumex algeriensis* and *Rumex tunetanus*

Occhiuto C., Abidi J, Cimino F, Speciale A, Saija A, Ruberto G, Siracusa L, Bouaziz M, Cristani M (Messina, Sfax, Catania)

P44. Evaluation of the phytochemical composition and biological activities of the ethanolic extracts from “Bianco di Sperlonga” PGI celery ecotype: a multimethodological study

Di Sotto A.^a, Carradori S.^b, Locatelli M.^b, Ingallina C.^c, Mannina L.^c, Toniolo C.^d, Vitalone A.^a, Giusti A.M.^e, Di Giacomo S. (Roma, Chieti)

P45. Antimicrobial and Phytotoxic activity of essential oil of *Origanum vulgare* growing in Cilento

Della Pepa T., Elshafie HS, Capasso R, De Feo V, De Martino L, Camele I, Gutierrez Pacheco MM, Vazquez Armenta FJ, Ayala Zavala JF, Nazzaro F, Caputo L (Napoli, Salerno, Potenza, Sonora, Avellino)

P46. Assessment of consumer perception of olive oil's characteristics and health claims related to nutraceutical attributes

Lombardi A, de Gennaro B, Cavallo C., Roselli L, Del Giudice T, Vecchio R, Cicia G (Napoli)

P47. Microdispersions of ellagic acid and pomegranate extracts as new potential nutraceutical ingredients

Turrini F., Boggia R, Pittaluga AM, Grilli M, Zunin P (Genova)

