



Programme

**XXI SIF SEMINAR
ON PHARMACOLOGY
FOR PHD STUDENTS,
FELLOWS, POST DOC AND
SPECIALIST TRAINEES**

**Bresso (Mi)
September
19-22,
2018**



**XXI SIF SEMINAR
ON PHARMACOLOGY
FOR PHD STUDENTS, FELLOWS,
POST DOC AND SPECIALIST
TRAINEES**

**Zambon
Via Meucci 3,
Bresso (Mi), Italy
September 19-22, 2018**

PROGRAMME

Realizzato grazie al contributo non condizionato di



**Open
Accelerator**
Life Sciences
Zcube
Zambon Research Venture



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GENERAL INFORMATION

SEMINAR LOCATION

Open Circle presso Zambon
Via Meucci 3
Bresso (Mi)

GUIDELINES FOR ORAL COMMUNICATIONS SESSIONS

The official language of the Seminar is English.

Speakers are strongly encouraged to an absolute timing respect for their presentation (12 minutes for presentation, 3 minutes for discussion).

Presentations must absolutely finish at the scheduled time, so Chairpersons are exhorted to respect also the session starting time.

GUIDELINES FOR CHAIRPERSONS

Chairpersons are strongly recommended to be present at the conference room at least 10 minutes before session start and, especially, to guarantee the respect of session and each presentation timing.

GUIDELINES FOR POSTER SESSIONS

Posters should be in English and dimensions should not exceed 190 cm in height and 90 cm in width. All poster boards will be pre-numbered and Authors are needed to be certain to place their posters on the correct board.

Posters must be dismantled at the end of the same presentation session.

The Presenting author is required to be available for discussion during the poster session assigned (see details below):

Poster Presentations Session I:

September 20th (numbers P1-P38)

POSTER SET-UP: 9.00

POSTER DISPLAY HOURS: 9.00-14.00

POSTER AUTHOR DISCUSSION: 14.00-16.00

POSTER DISMANTLE: 16.00-19.00

Poster Presentations Session II:

September 21st (numbers P39-P74)

POSTER SET-UP: 9.00

POSTER DISPLAY HOURS: 9.00-14.00

POSTER AUTHOR DISCUSSION: 14.00-15.30

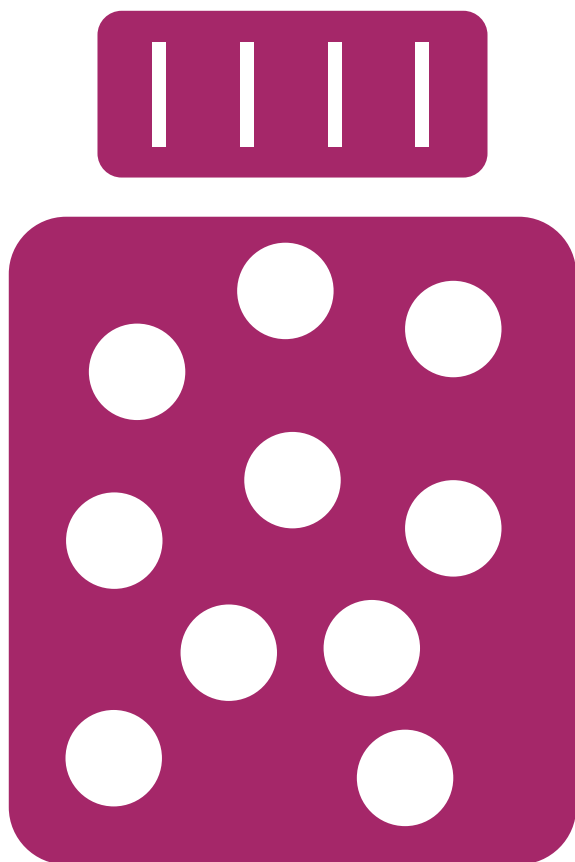
POSTER DISMANTLE: 15.30-19.00

SIF AWARDS

The best posters and oral communications will receive an award.

The awards will be given during the closing ceremony on September 22nd (12.15-13.00, only to those present at the Ceremony. In the case the winner is not present, the Award will be given to the following).

PROGRAMME



WEDNESDAY SEPTEMBER 19

Sala Open Circle

- 14.00 **PARTICIPANTS' REGISTRATION**
-
- 14.30-15.00 **OPENING CEREMONY**
A. Mugelli (*Florence*), G. Cirino (*Naples*), G. Geusa (*Bresso*), F. Torriglia (*Bresso*)
-
- 15.00-17.00 **PLENARY LECTURE**
INTRODUCED BY: G. Cirino (*Naples*)
How to enter the evolving Job Market creating your Personal Branding: tips and tricks on CVs, Linkedin and Job Interviews
C. D'Evola (*Bresso*)
-
- 17.00-17.30 **PLENARY LECTURE**
INTRODUCED BY: M. Renoldi (*Bresso*), G. Sava (*Trieste*)
Open Innovation in Life Science: a case study from the idea to the market
G. Rizzo (*Bresso*)
-
- 17.30-18.00 **Parkinson's disease: diagnosis, symptom monitoring and closed-loop adaptive therapy**
L. Di Biase (*Rome*)
-
- 18.00-18.30 **Innovative models for drug discovery and development**
A. Sidoli (*Bresso*)
-
- 19.00 **Welcome Cocktail**
-

THURSDAY SEPTEMBER 20

Sala Open Circle

8.30 **WELCOME COFFEE**

9.00-10.00 **WELCOME REMARKS**
R. Tascione (*Bresso*), A. Mugelli (*Florence*)

10.00-13.00 **Oral communications**
NEUROSCIENCE I
CHAIRPERSONS: C. Cristiano (*Naples*), L. Lisi (*Rome*)

10.00 **Gestational cannabinoids alter behavioral reactivity and induce alcohol vulnerability in the young rat progeny: Homer1 as a potential neurobiological element underlying complex brain disarrangement**
V. Castelli (*Palermo*), A. Brancato, L. Magherini, F. Plescia, C. Cannizzaro

10.15 **L-acetylcarnitine effects on ATP-ases of synaptosomes from rat hippocampus**
F. Ferrari (*Pavia*), L. Bagini, E. Dini, A. Gorini, R. F. Villa

10.30 **Treatment of astrocytes with beta amyloid affects PBMCs migration through the blood brain barrier**
S. F. Spampinato (*Catania*), M. A. Sortino

10.45 **Autism with benzodiazepine-responsive electrical status epilepticus in sleep (ESES) caused by Kv7.3 gain-of-function variants**
A. Lauritano (*Naples*), T. T. Sands, G. Lesca, M. R. Cilio, P. Nappi, M. V. Soldovieri, F. Miceli, M. Tagliatalata

11.00 **Treatment with exosome-shuttled miRNAs derived from mesenchymal stem cells shifts spinal cord astrocytes isolated from late disease state SOD1^{G93A} mice from a neurotoxic to a neuroprotective phenotype**
M. Balbi (*Genoa*), F. Provenzano, C. Torazza, M. Milanese, D. Giunti, C. Usai, B. Parodi, C. Marini, N. Kerlero De Rosbo, A. Uccelli, G. Bonanno

11.15 **Vesicular glutamate transporter modulates behavioural resilience in rodents: advance in the search for innovative targets for depression**
A. Brancato (*Palermo*), G. E. Hodes, S. J. Russo, T. Ueda, C. Cannizzaro

-
- 11.30 **Prenatal stress exposure affects the susceptibility to the autoimmune EAE Model of Multiple Sclerosis**
M. S. Paladini (*Milan*), G. T. Coppolino, A. C. Rossetti, D. Marangon, M. Fumagalli, D. Lecca, A. Guidi, M. P. Abbracchio, R. Molteni
-
- 11.45 **Neuroprotective properties of 6-(Methylsulfinyl)hexyl isothiocyanate treatment on a murine model of Alzheimer's Disease**
G. Sita (*Bologna*), F. Morroni, A. Tarozzi, A. Graziosi, E. Turrini, C. Fimognari, P. Hrelia
-
- 12.00 **Alteration in both PIP₂- and CaM-mediated current modulation as a novel pathogenetic mechanism of a Kv7.2 mutation causing epileptic encephalopathy**
I. Mosca (*Campobasso*), M. V. Soldovieri, P. Ambrosino, J. C. Di Francesco, G. Lesca, M. Tagliatela
-
- 12.15 **Anti-obesity effects of oleoylethanolamide: from gut microbiota to key brain genes**
J. B. Koczwara (*Rome*), M. Rastelli, C. A. Gallelli, M. De Ceglia, O. Guillemot-Legris, M. V. Micioni di Bonaventura, A. Everard, C. D'Addario, P. D. Cani, A. Romano, S. Gaetani
-
- 13.00-13.30 **PLENARY LECTURE**
 Introduced by: G. Cantelli Forti (*Bologna*)
MolMed, from genes to therapy
 R. Palmisano (*Bresso*)
-

Sala Ascolto

- 10.00-13.00 **Oral communications**
PHARMACOEPIDEMIOLOGY AND PHARMACOVIGILANCE
 CHAIRPERSONS: J. Angelini (*Milan*), G. Pallio (*Messina*)
-
- 10.00 **Association between PPI use and risk of cardiovascular events**
M. Casula (*Milan*), F. Galimberti, L. Scotti, E. Tragni, G. Corrao, A. L. Catapano
-
- 10.15 **Predictors of serious adverse events following immunization: 1-year pharmacovigilance study in general population**
N. Lombardi (*Florence*), G. Crescioli, A. Bettiol, M. Tuccori, M. Rossi, R. Bonaiuti, C. Ravaldi, M. Levi, A. Mugelli, P. Bonanni, A. Vannacci
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- 10.30 **Did the new Italian Law on mandatory vaccines affect adverse event following immunization's reporting? A pharmacovigilance study in Southern Italy**
C. Scavone (Naples), R. Ruggiero, C. Rafaniello, S. Brusco, M. Bertini, E. Menditto, V. Orlando, U. Trama, L. Sportiello, F. Rossi, A. Capuano
-
- 10.45 **Access to innovative drugs and not in Sicily: is it always guaranteed?**
L. Gozzo (Catania), G. Benfatto, L. Longo, S. Mansueto, D. Vitale, A. Lazzara, F. Drago
-
- 11.00 **Program of "Oncovigilance" evaluating the incidence and prevalence of ADR linked to the use of fluoropyrimidines-based chemotherapy**
F. Iannello (Salerno), V. Manzo, C. Savastano, M. Torsiello, E. De Bellis, C. Sellitto, T. Iannaccone, F. Dal Piaz, V. Conti, A. Filippelli
-
- 11.15 **Preventable statin adverse reactions and therapy discontinuation. What can we learn from the spontaneous reporting system?**
A. Mascolo (Naples), M. Sessa, C. Rafaniello, C. Scavone, G. Di Mauro, A. Fucile, F. Rossi, L. Sportiello, A. Capuano
-
- 11.30 **Drug exposure and occurrence of Multiple Sclerosis: clues from a 13-year disproportionality analysis of the FDA Adverse Event Reporting System (FAERS)**
I. C. Antonazzo (Bologna), E. Raschi, E. Forcesi, T. Riise, K. Bjørnevik, E. Baldin, F. De Ponti, E. Poluzzi
-
- 11.45 **Inappropriate medication prescribing among adult patients in two italian regions**
F. Galimberti (Milan), E. Olmastroni, M. Casula, V. Russo, E. Menditto, E. Tragni, A. L. Catapano
-
- 12.00 **Appropriateness and cost-effectiveness in drugs selection in the hospital setting: use of biosimilars at the University Hospital of Catania**
C. B. Platania (Catania), L. Gozzo, G. Benfatto, L. Longo, S. Mansueto, D. Vitale, A. Lazzara, F. Drago
-
- 12.15 **Patterns of antineoplastic drug utilization in a cohort of patients diagnosed with non-small cell lung cancer at the Azienda Ospedaliera Universitaria Senese**
A. Spini (Siena), C. Bellan, F. Furiesi, S. Donnini, L. Leoncini, S. Giorgi, A. Barchielli, A. Caldarella, M. Zappa, C. Bartolini, G. Roberto, R. Gini, M. Ziche
-
- 13.30-14.30 **Lunch**
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Area Library

14.30-16.00 POSTER SESSION I

CHAIRPERSONS: A. Bitto (*Messina*), M. Gargaro (*Perugia*), L. Lisi (*Rome*), A. Tarozzi (*Bologna*)

- P1** **P2X7R stimulation affects the growth and invasiveness of cancer stem cells derived from human glioblastoma multiforme**
 S. Ziberi (*Chieti*), M. Carluccio, A. D'Orazio, L. Ricci-Vitiani, R. Pallini, F. Caciagli, R. Ciccarelli
-
- P2** **Effects of digitoxin on cell migration in ovarian cancer inflammatory microenvironment**
 C. Boscaro (*Padua*), A. Trenti, S. Tedesco, A. Cignarella, C. Bolego, L. Trevisi
-
- P3** **The role of hypoxia in glioblastoma cell models**
 A. Graziosi (*Bologna*), G. Sita, F. Morroni, P. Hrelia
-
- P4** **Precision therapy for pediatric BCR-ABL-like acute lymphoblastic leukemia with activation of the ABL pathway: development of an *in vitro* system for diagnosis and clinical monitoring**
 O. Montecchini (*Trieste*), R. Franca, C. Sorio, M. Vezzalini, M. Lucafò, M. Rabusin, G. Decorti, G. Stocco
-
- P5** **[Methyl-³H] thymidine incorporation assay for the prediction of the correct drug association in patients with chronic kidney disease who need kidney transplantation**
 D. Selvestrel (*Trieste*), M. Lucafò, S. Granata, G. Zaza, G. Decorti, G. Stocco
-
- P6** **Ultrasensitive surface-enhanced Raman spectroscopy as diagnostic tool for circulating microRNA 122 detection in hepatocellular carcinoma patients**
 A. Di Silvestre (*Trieste*), E. Mitri, D. Pascut, V. Sergo, S. L. Crocè, M. Rossano Buonocore, C. Tiribelli, A. Bonifacio
-
- P7** **TLR-4/Wnt modulation as new therapeutic strategy in the treatment of glioblastomas**
 G. Casili (*Messina*), M. Caffo, M. Campolo, V. Barresi, G. Caruso, S. M. Cardali, M. Lanza, R. Mallamace, A. Filippone, A. Conti, A. Germanò, S. Cuzzocrea, E. Esposito
-
- P8** **Glucocorticoid receptor alternative splicing regulation and effects in triple-negative breast cancers cells**
 M. Ronfani (*Pavia*), E. Buoso, M. Galasso, S. Gesa, L. Setti, M. Racchi
-
- P9** **Zoledronic acid regulates osteoclast/osteoblast homeostasis: possible involvement of ionic channels on cell proliferation**
 R. Scala (*Bari*), F. Maqoud, A. Scilimati, D. Tricarico
-

-
- P10** **The level of activating EGFR mutations in circulating tumor DNA is a biomarker of response to osimertinib**
E. Rofi (Pisa), M. Del Re, P. Bordi, G. Restante, S. Valleggi, R. Minari, S. Crucitta, E. Arrigoni, A. Chella, R. Morganti, M. Tiseo, I. Petrini, R. Danesi
-
- P11** **Characterization of VEGF receptors in rat adipose stem cells**
A. Vona (Florence), L. Di Cesare Mannelli, L. Micheli, E. Lucarini, E. Trallori, C. Ghelardini, P. Failli
-
- P12** **Possible involvement of Kv7 channels in human malignant hyperthermia**
O. L. Manzo (Naples), V. Vellecco, A. Martelli, G. Cirino, M. Bucci, A. Mancini, V. Citi, M. Vallifuoco, V. Calderone
-
- P13** **Atheroprotective activity of tofacitinib through macrophage cholesterol homeostasis modulation**
C. Marchi (Parma), M. P. Adorni, F. Bernini, N. Ronda
-
- P14** **Vasorelaxing activity of stilbenoid and phenanthrene derivatives from *Brasiliorchis porphyrostele* Rchb.f. (Orchidaceae): involvement of smooth muscle Ca_v1.2 and K_v channels**
M. Durante (Siena), W. Waratchareeyakul, A. Rocco, D. De Feo, C. Sandroni, F. D'Ortona, E. Maione, S. L. Schwikkard, W. Knirsch, D. A. Mulholland, F. Fusi
-
- P15** **Lipid abnormalities in patients on statin therapy: the TREAT study**
M. Gazzotti (Milan), M. Casula, E. Olmastroni, A. L. Catapano
-
- P16** **Proprotein convertase subtilisin-kexin TYPE-9 (PCSK9) inhibitors and triglyceride-rich lipoprotein metabolism: meta-analyses of randomized trials**
E. Olmastroni (Milan), M. Casula, A. Baragetti, A. L. Catapano
-
- P17** **Leaf extract of *Morus alba*, active component of LopiGLIK®, reduces the expression of PCSK9 in HepG2 cell line**
M. G. Lupo (Padua), A. Corsini, N. Ferri
-
- P18** **Ranolazine attenuates adverse myocardial remodeling, lung capillaries and endothelial dysfunction in a model of heart failure with preserved ejection fraction**
L. P. Ciuffreda (Naples), A. De Angelis, D. Cappetta, G. Esposito, E. Piegari, K. Urbanek, F. Rossi, L. Berrino
-
- P19** **Effects of a new compound containing Palmitoylethanolamide and Baicalein in myocardial ischaemia/reperfusion injury *in vivo***
R. D'Amico (Messina), R. Fusco, E. Gugliandolo, M. Cordaro, R. Siracusa, D. Impellizzeri, A. F. Peritore, R. Crupi, S. Cuzzocrea, R. Di Paola
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- P20** **Cross-talk between endogenous H₂S and NO accounts for vascular protective activity of the metal-nonoate Zn(PipNONO)Cl**
I. Hyseni (Siena), M. Monti, L. Casella, L. Morbidelli
-
- P21** **Intravitreal Injections of Melanocortin Receptor 1, 5 Agonists Prevents Neovascularization in a VEGF165 Mouse Model of Retinopathy**
M. C. Trotta (Naples), R. Maisto, S. Rossi, C. Gesualdo, D. Siniscalco, F. Ferraraccio, J. M. Barcia, F. Simonelli, C. Di Filippo, M. D'Amico
-
- P22** **GILZ (Glucocorticoid Induced Leucin Zipper) is a novel regulator of hematopoietic stem cell function**
S. Flamini (Perugia), T. Frammartino, A. Gagliardi, S. Bruscoli, O. Bereshchenko, C. Riccardi
-
- P23** **Atomic force microscopy as innovative tool for therapeutic drug monitoring in pediatric inflammatory bowel disease**
D. Curci (Trieste), M. Lucafò, L. Casalis, P. Parisse, G. Stocco, G. Decorti
-
- P24** **Effect of prolonged lurasidone treatment on chronic mild stress-induced alterations: a role for glucocorticoid receptor**
P. Brivio (Milan), F. Calabrese, B. Sbrini, M. Papp, M. A. Riva
-
- P25** **Changes of gene and protein expression of skeletal muscle CLC1 channel during lifespan: toward the development of new phenotype and age specific personalized medicine**
E. Conte (Bari), A. Fonzino, A. Cibelli, S. Pierno, G. P. Nicchia, A. De Luca, G. M. Camerino
-
- P26** **Functional alteration of gastrointestinal tract in a mouse model of diet induced-obesity**
F. Garelli (Padua), A. Nericcio, S. Cerantola, I. Marsilio, M. C. Giron, R. Colucci
-
- P27** **Role of high sugar exposure in metabolic inflammation: a comparative *in vivo* study on fructose and its epimer D-tagatose in both liquid and solid formulations**
D. Collotta (Turin), L. Lucarini, F. Chiazza, A. Cento, M. Durante, S. Sgambellone, M. Aragno, R. Mastrocola, E. Masini, M. Collino
-
- P28** **Effects of JMV2959 and EP80317, two ghrelin antagonist, in a *in vivo* model of obesity**
L. Rizzi (Milan), L. Molteni, E. Bresciani, R. Meanti, V. Locatelli, A. Torsello
-
- P29** **Insulin analogue glargine 300 U/mL and 100 U/mL: the same active principle for two different drugs**
J. Angelini (Milan), M. Morina, F. Scaglione
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- P30** **Impact of e-cig vaping personalization on antioxidant defense: a multidisciplinary approach**
S. Cirillo (*Bologna*), F. Vivarelli, V. Cardenia, M. T. Rodriguez-Estrada, M. Paolini, D. Canistro
-
- P31** **Intestinal EphB/EphrinB mRNA levels and expression in a murine model of Crohn's disease**
S. Palese (*Parma*), A. Grandi, I. Zini, V. Vivo, F. Marchesani, S. Bruno, M. Tognolini, R. Castelli, S. Bertoni, E. Barocelli
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- P32** **miR-331-3p is involved in glucocorticoid resistance reversion by rapamycin through suppression of the JNK signalling pathway**
M. Lucafò (*Trieste*), D. Sicari, A. Chicco, A. Di Silvestre, L. Collavin, G. Decorti, G. Stocco
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- P33** **Identification of a cellular model to investigate on the possible molecular mechanisms by which thalidomide can regulate TNF- α expression**
L. Pugnetti (*Trieste*), M. Lucafò, D. Curci, M. Bramuzzo, G. Stocco, G. Decorti
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- P34** **New insights on the role of store-operated calcium-entry in rare genetic diseases**
C. Cordero Sanchez (*Novara*), B. Riva, A. Griglio, M. Serafini, M. Garibaldi, E. Bertini, G. Tasca, T. Pirali, A. A. Genazzani
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- P35** **Treating Myotonia Congenita with pharmacological chaperone: niflumic acid as trafficking corrector of CLC-1 chloride channel mutants**
C. Altamura (*Bari*), P. Imbrici, D. Sahbani, S. Lucchiari, G. P. Comi, M. Lo Monaco, E. Ivanova, M. R. Carratù, D. Conte Camerino, J. F. Desaphy
-
- P36** **Novel and rare variants in the *DPYD* gene possibly associated to 5-fluorouracil and capecitabine toxicity: a case series**
R. Talotta (*Milan*), F. Rucci, M. S. Cigoli, U. Cavallari, S. Siena, M. Cantore, G. Canti, F. Scaglione
-
- P37** **Role of miR-193a mimics as new potential therapeutic agents in cutaneous melanoma**
B. Polini (*Pisa*), S. Carpi, E. Ylösmäki, L. Ylösmäki, S. Feola, V. Cerullo, A. Romanini, P. Nieri
-
- P38** **Abacavir pharmacogenetics: screening of the allele variant HLA-B*57.01 to prevent hypersensitivity reactions**
V. Canoro, C. Sellitto (*Salerno*), T. Iannaccone, R. Vitolo, M. Langella, C. Selleri, V. Manzo, B. Charlier, F. Iannello, V. Izzo, V. Conti, A. Filippelli
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Sala Open Circle

16.00-16.30 **Coffee break**

16.30-17.30 **PLENARY LECTURE**

INTRODUCED BY: G. Racagni (*Milan*)

NMDA-type glutamate receptors: from synaptic plasticity to Parkinson's disease

F. Gardoni (*Milan*)

17.30-19.15 **Oral Communications**

GASTROINTESTINAL INFLAMMATION

CHAIRPERSONS: M. Biagioli (*Perugia*), M. Gargaro (*Perugia*)

17.30 **Changes in the expression of homeobox transcription factors OTX1 and OTX2 in the rat myenteric plexus after DNBS-induced colitis**
M. Bistoletti (*Varese*), G. Micheloni, A. Baj, G. Porta, C. Giaroni

17.45 **Involvement of Toll-like receptor 4 on small intestine neuromuscular dysfunctions in a mouse model of high-fat diet-induced obesity**
S. Cerantola (*Padua*), I. Marsilio, V. Caputi, F. Garelli, A. Nericcio, R. Colucci, M. C. Giron

18.00 **Targeting extracellular Nicotinamide Phosphoribosyltransferase (eNAMPT) in inflammatory bowel diseases**
G. Colombo (*Novara*), C. Travelli, F. Malavasi, C. Porta, A. A. Genazzani

18.15 **Selective CB2 inverse agonist JTE907 ameliorates inflammation in a mouse model of inflammatory bowel disease**
M. Gentili (*Perugia*), S. Ronchetti, E. Ricci, R. Di Paola, E. Gugliandolo, S. Cuzzocrea, O. Bereshchenko, G. Migliorati, C. Riccardi

18.30 **EphB/ephrinB system disruption: opposite outcomes in 2,4,6-Trinitrobenzene sulfonic acid (TNBS)-induced versus acute or chronic Dextran Sulfate Sodium (DSS)-induced colitis**
I. Zini (*Parma*), A. Grandi, V. Vivo, L. Flammini, S. Palese, A. M. Cantoni, M. Tognolini, E. Barocelli, S. Bertoni

18.45 ***In vitro* modelling pathophysiological features of irritable bowel syndrome**
G. Dothel (*Bologna*), S. Talucci, F. De Ponti

19.00 **Differentiation of induced pluripotent stem cells in pancreatic exocrine cells to model thiopurine induced pancreatitis in pediatric patients with Crohn's disease**
E. Genova (*Trieste*), M. Pelin, G. Decorti, K. Sasaki, Y. Fengming, G. Stocco

Sala Ascolto

- 17.30-19.15 **Oral Communications**
ANTINEOPLASTIC DRUGS
CHAIRPERSONS: S. Cargnin (*Novara*), G. Ravegnini (*Bologna*)
-
- 17.30 **Fast and Cost-Effective Therapeutic Drug Monitoring (TDM) Assay in Gist (Gastrointestinal Stromal Tumor) Patients for Imatinib and Norimatinib by Finger Prick on Dried Blood Spot**
V. Iacuzzi (*Aviano*), B. Casetta, E. Marangon, A. Poetto, M. Buzzo, B. Posocco, S. Gagno, M. Zanchetta, G. Toffoli
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- 17.45 **Palmitoylethanolamide, a naturally occurring lipid, inhibits colon carcinogenesis**
E. Pagano (*Naples*), B. Romano, F. Iannotti, O. Parisi, F. Fiorino, M. D'Armiento, V. Di Marzo, A. A. Izzo, F. Borrelli
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- 18.00 **Platelets induce the generation of phospholipid-esterified 12-hydroxyeicosatetraenoic acid in the human colon adenocarcinoma cell line HT29: discovering a novel off-target effect of acetylsalicylic acid**
R. Grande (*Chieti*), M. Dovizio, S. Schiavone, C. Hinz, S. Tacconelli, R. Fullone, V. O'Donnell, P. Patrignani
-
- 18.15 **Extracellular Nicotinamide Phosphoryltransferase (NAMPT): possible new target in mammary carcinoma**
C. Travelli (*Novara*), G. Colombo, F. Malavasi, A. A. Genazzani
-
- 18.30 **Aldehyde dehydrogenase 1A1 is involved in breast tumor stemness, angiogenesis and progression**
V. Ciccone (*Siena*), E. Terzuoli, S. Donnini, A. Giachetti, L. Morbidelli, M. Ziche
-
- 18.45 **Nicotinamide phosphoribosyltransferase (NAMPT) and glyceraldehyde 3-phosphate dehydrogenase (GAPDH): interaction between moonlighting proteins as new molecular basis of cancer**
A. Grolla (*Novara*), S. Garavaglia, M. Bianchi, D. Di Marino, P. L. Canonico, A. A. Genazzani
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- 19.00 **Evaluation of mammalian target of rapamycin in a human microglia-glioma paradigm: an additional new approach for treatment of Glioblastoma Multiforme**
M. Chiavari (*Rome*), G. M. Ciotti, P. Navarra, L. Lisi
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FRIDAY SEPTEMBER 21

Sala Open Circle

- 9.00-11.00 **Oral Communications**
PHARMACOGENETICS AND CANCER THERAPY
CHAIRPERSONS: E. Pagano (*Naples*), C. Travelli (*Novara*)
-
- 9.00 **Opioid response in pediatric cancer patients and the VAL158MET polymorphism of the human catechol-O-methyltransferase (COMT) gene: an italian study on 87 cancer children and a systematic review**
G. Crescioli (*Florence*), N. Lombardi, E. Lucenteforte, A. Bettiol, R. Bonaiuti, L. Giovannelli, V. Maggini, A. Mugelli, A. Vannacci
-
- 9.15 **Expression of TK1 and CDK9 in plasma-derived exosomes is associated with clinical response to CDK4/6 inhibitors in breast cancer**
S. Crucitta (*Pisa*), M. Del Re, A. Fontana, I. Bertolini, E. Rofi, C. De Angelis, L. Diodati, D. Cavallero, B. Salvadori, A. Falcone, R. Morganti, R. Danesi
-
- 9.30 **Identification of circulating MiRNA in high-risk gastrointestinal stromal tumor (GIST) patients involved in tumor recurrence**
G. Ravegnini (*Bologna*), M. Nannini, G. Sammarini, M. A. Pantaleo, P. Hrelia, S. Angelini
-
- 9.45 **Diagnostic accuracy of NUDT15 gene variants for thiopurine-induced leukopenia: a systematic review and meta-analysis**
S. Cargnin (*Novara*), A. A. Genazzani, P. L. Canonico, S. Terrazzino
-
- 10.00 **Edit-to-Track: analyze intratumor heterogeneity and cancer subpopulations via RNA-seq by editing multiple endogenous genomic elements**
G. Pizzino (*Candiolo*), M. Pinnelli, B. Lupo, S. M. Leto, L. Trusolino, A. Bertotti
-
- 10.15 **High variability of tacrolimus levels is related to genetic polymorphisms in transplanted patients**
G. Pallio (*Messina*), A. Bitto, N. Irrera, L. Minutoli, D. Altavilla, F. Squadrito
-
- 10.30 **A variant in a MiRNA binding site in KIT 3'UTR increases risk of gastrointestinal stromal tumor (GIST)**
G. Ravegnini, G. Sammarini (*Bologna*), V. Simeon, M. Nannini, C. Serrano, M. A. Pantaleo, P. Hrelia, S. Angelini
-

10.45	Pharmacogenetic evaluation of tenofovir-associated toxicity in a cohort of HIV-positive patients <u>J. Cusato</u> (<i>Turin</i>), A. Calcagno, L. Marinaro, G. Di Perri, S. Bonora, A. D'Avolio
11.30	Coffee Break
12.00-13.00	PLENARY LECTURE INTRODUCED BY: A. Mugelli (<i>Florence</i>) Inflammation and cancer: from paradigm shift to therapeutic strategies A. Mantovani (<i>Milan</i>)
13.00-14.00	Lunch
Sala Ascolto	
9.00-11.15	Oral Communications NEUROSCIENCE II CHAIRPERSONS: A. Brancato (<i>Palermo</i>), S. F. Spampinato (<i>Catania</i>)
9.00	Effects of the satiety signal oleoylethanolamide on binge-like food consumption in female rats <u>C. A. Gallelli</u> (<i>Rome</i>), A. Romano, M. V. Micioni di Bonaventura, J. B. Koczwara, M. E. Giusepponi, T. Cassano, C. Cifani, S. Gaetani
9.15	Cannabinoid-opioid unidirectional heterologous cross-tolerance in social play behavior in rats <u>S. Schiavi</u> (<i>Rome</i>), A. Manduca, M. Segatto, V. Pallottini, V. Trezza
9.30	Promotion of GABAergic development by tuning ATM activity <u>L. Pizzamiglio</u> (<i>Milan</i>), E. Focchi, S. Ferrara, F. Bifari, N. Landsberger, M. Matteoli, E. Menna, F. Antonucci
9.45	The role of Nociceptin/Orphanin FQ receptor in modulating nicotine addiction <u>A. Domi</u> (<i>Camerino</i>), M. Petrella, M. Ubaldi, R. Ciccocioppo
10.00	A central role of PRRT2, a protein associated with neurological paroxysmal disorders, in the regulation of actin cytoskeleton dynamics at the synapse <u>E. Savino</u> (<i>Milan</i>), R. I. Cervigni, M. Povo, F. C. Guarnieri, A. Corradi, F. Benfenati, F. Valtorta
10.15	Gut-brain axis: butyrate effects in antibiotic-induced intestinal injury associated to Parkinson's Disease in mice <u>A. Lama</u> (<i>Naples</i>), C. Avagliano, C. De Caro, C. Cristiano, R. Russo, M. P. Mollica, R. Meli, A. Calignano, G. Mattace Raso

- 10.30 **The neurosteroid allopregnanolone modulates sensorimotor gating alteration induced by dopamine D1 receptor activation**
F. Traccis (*agliari*), L. J. Mosher, S. Fanni, P. Saba, G. Giua, P. Devoto, M. Bortolato, R. Frau
- 10.45 **Neuroprotective effects of esculetin in Huntington's disease models**
L. Pruccoli (*Bologna*), C. Breda, F. Giorgini, G. Teti, M. Falconi, A. Tarozzi
- 11.00 **Palmitoylethanolamide reverses autistic-like behaviours in BTBR T+tf/J mice through central and peripheral mechanisms**
C. Cristiano (*Naples*), C. Pirozzi, L. Coretti, A. Lama, R. Russo, F. Lembo, R. Meli, A. Calignano, G. Mattace Raso

Area Library

14.00-15.30 POSTER SESSION II

CHAIRPERSONS: L. Bazzani (*Siena*), M. Biagioli (*Perugia*), R. F. Villa (*Pavia*)

- P39** **Evaluation of the pharmacological and toxicological profile of a new topical minoxidil formulation in male rat: involvement of the ATP-sensitive potassium channel (K+ATP) in hair growth and cell proliferation**
F. Magoud (*Bari*), R. Scala, A. Lopedota, D. Tricarico
- P40** **A fluorescence-based assay to evaluate the activity of Kv7.2/Kv7.3 channel modulators**
P. Nappi (*Naples*), F. Miceli, A. Lauritano, P. Scuderi, L. Galietta, C. Ostacolo, P. Campiglia, M. Tagliatela
- P41** **Pharmacological profile of the neuropeptide S receptor: dynamic mass redistribution studies**
F. Ferrari (*Ferrara*), C. Ruzza, R. Guerrini, E. Marzola, D. Preti, R. K. Reinscheid, G. Calò
- P42** **Dextran sulfate sodium-induced colitis and behavior disorders in mice**
O. A. Parisi (*Naples*), E. Pagano, M. Iannotta, C. Cristiano, A. Calignano, F. Guida, A. A. Izzo, F. Borrelli
- P43** **RGS4 inhibition potentiates the antidyskinetic effect of NOP receptor agonism**
C. A. Pisanò (*Ferrara*), D. Mercatelli, R. R. Neubig, M. Morari
- P44** **Pharmacological characterization of the intracellular signalling pathway activated by TLQP-21 in CHO cells**
L. Molteni (*Milan*), L. Rizzi, E. Bresciani, R. Meanti, A. Torsello, V. Locatelli

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- P45** **Targeting A₃ adenosine receptor for post-inflammatory visceral pain management**
E. Lucarini (Florence), L. Di Cesare Mannelli, L. Micheli, C. Parisio, E. Coppi, K. A. Jacobson, D. Salvemini, C. Ghelardini
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- P46** **Procognitive effects of an omega-3 Fatty Acid-Vitamin A enriched diet or of Oleoylethanolamide on the cognitive impairment induced by chronic stress. Role of the brain histaminergic system**
B. Rani (Florence), G. Provensi, S. D. Schmidt, P. Blandina, M. B. Passani, A. Costa
-
- P47** **Vulnerability and resilience to chronic stress exposure: basal changes and altered responsiveness to a dexamethasone challenge**
V. Begni (Milan), G. Longoni, M. Papp, M. A. Riva
-
- P48** **A drug repositioning strategy for novel pharmacological approaches in Down syndrome**
M. E. Salvalai (Novara), V. Bortolotto, E. Xia, R. Bartesaghi, M. Grilli
-
- P49** **Pharmacological and complementary (meditation/mindfulness) interventions to slow down biological aging: an overview**
M. Campisi (Padua), S. Pavanello
-
- P50** **Inhibition of 5alpha-reductase reduces L-DOPA-induced dyskinesia via normalization of dopamine d1-receptor signaling pathway**
S. Fanni (Cagliari), F. Rossi, F. Traccis, P. Saba, S. Scheggi, P. Devoto, M. Bortolato, M. Carta, R. Frau
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- P51** **Unravelling the role of carbonic anhydrases on fear memory extinction**
G. Provensi (Florence), S. D. Schmidt, B. Rani, A. Costa, F. Carta, M. B. Passani, I. Izquierdo, C. T. Supuran, P. Blandina
-
- P52** **The selective inhibition of FAAH ameliorates cognitive decline, depressive-like symptoms and neuropathological alterations in a murine model of Alzheimer's disease**
S. Calcagnini (Rome), G. Bedse, M. Lavecchia, A. Caruso, S. Scaccianoce, M. De Ceglia, C. A. Gallelli, A. Romano, T. Cassano, S. Gaetani
-
- P53** **Effects of subdiaphragmatic deafferentation on oleoylethanolamide-induced Fos expression in the brain**
M. De Ceglia (Rome), J. B. Koczwara, C. A. Gallelli, E. K. Azari, M. Arnold, A. Romano, S. Gaetani
-
- P54** **Activation of A2A receptor by PDRN reduces neuronal damage and stimulates Wnt/ β -catenin driven neurogenesis in spinal cord injury**
N. Irrera (Messina), F. Mannino, G. Pallio, F. Squadrito, D. Altavilla, A. Bitto
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- P55** **Amyloid cascade and actin cytoskeleton remodelling: an inner dialogue in the frame of Alzheimer Disease**
S. Pelucchi (Milan), L. Vandermeulen, S. Musardo, D. Lim, M. Passafaro, M. Mikhaylova, D. Di Marino, F. Gardoni, M. Di Luca, E. Marcello
-
- P56** **2-Pentadecyl-2-Oxazoline reduces neuroinflammatory environment in the MPTP model of Parkinson Disease**
M. Cordaro (Messina), R. Siracusa, R. Crupi, D. Impellizzeri, A. F. Peritore, R. D'Amico, E. Gugliandolo, R. Di Paola, S. Cuzzocrea
-
- P57** **Rabphilin 3A modulates structural and functional synaptic plasticity through interaction with GluN2A/PSD-95 complex**
L. Franchini (Milan), J. Stanic, S. Musardo, E. Zianni, M. Mellone, C. Racca, M. Di Luca, C. Bellone, F. Gardoni
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- P58** **C-Jun N-terminal kinase 1 regulates adult hippocampal neurogenesis and controls anxiety and depressive behaviour**
H. Mohammad, F. Marchisella (Milan), S. Ortega-Martinez, P. Hollos, K. Eerola, E. Komulainen, N. Kuleskaya, E. Freemantle, V. Fagerholm, E. Savantous, H. Rauvala, B. Peterson, H. P. Van Praag, E. Coffey
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- P59** **Dopamine D3 receptor-dependent expression of alpha6 GABA_A receptor subunit counteracts voluntary alcohol intake**
G. M. Leggio, R. Di Marco, M. D'Ascenzo, S. A. Torrisi, F. Geraci (Catania), G. Lavanco, K. Dahl, G. Giurdanella, A. Castorina, T. Aitta-Aho, G. Aceto, C. Bucolo, C. Grassi, E. R. Korpi, F. Drago, S. Salomone
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- P60** **Possible relationship between the epigenetic regulation of oxytocin receptor in OCD and alcoholic subjects**
F. Bellia (Teramo), B. Dell'Osso, M. Vismara, D. Galimberti, M. Maccarrone, V. Vukojevic, L. Terenius, C. D'Addario
-
- P61** **Oxytocin and the development of the olfactory bulb: potential early-life predisposition to altered sociality**
V. Gigliucci (Milan), B. Chini
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- P62** **Functional investigation of the reward striatal system in the valproic acid model of autism**
D. Iezzi (Florence), C. Carbone, A. Ilari, M. Urru, G. Mannaioni, A. Masi
-
- P63** **The NOP receptor antagonist LY2817412 decreases alcohol drinking in male and female Marchigian Sardinian Alcohol-Preferring (msP) rats**
A. M. Borruto (Camerino), Y. Fotio, S. Stopponi, N. Cannella, R. Ciccocioppo
-
- P64** **The mixed opioid receptor agonist Cebranopadol reduces heroin-seeking behaviors in the rat**
A. Ilari (Camerino), Q. Shen, N. Cannella, R. Ciccocioppo
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- P65** **Sodium butyrate exerts neuroprotective effects in spinal cord injury**
M. Lanza (*Messina*), M. Campolo, G. Casili, A. Filippone, S. Cuzzocrea, E. Esposito
-
- P66** **Neuroprotective effect of Artesunate in experimental model of traumatic brain injury**
E. Gugliandolo (*Messina*), R. D'Amico, M. Cordaro, R. Fusco, R. Siracusa, R. Crupi, D. Impellizzeri, S. Cuzzocrea, R. Di Paola
-
- P67** **PKC-dependent phosphorylation modulates RNF10 activity in hippocampal neurons**
N. Carrano (*Milan*), T. Samaddar, E. Marcello, M. Di Luca, F. Gardoni
-
- P68** **Prokineticin system's antagonism: implications in a mouse model of chemotherapy-induced peripheral neuropathy**
G. Moschetti (*Milan*), G. Amodeo, D. Maftai, T. Kalpachidou, R. Lattanzi, M. Kress, P. Sacerdote, S. Franchi
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- P69** **The protective effect of sodium propionate: antioxidant, anti-inflammatory and neuroprotective properties**
A. Filippone (*Messina*), M. Campolo, G. Casili, M. Lanza, I. Paterniti, S. Cuzzocrea, E. Esposito
-
- P70** **N-Palmitoylethanolamine-oxazoline Protects Against Neuroinflammatory Injury Induced by Middle Cerebral Artery Occlusion**
A. F. Peritore (*Messina*), R. Fusco, M. Cordaro, R. D'Amico, E. Gugliandolo, R. Siracusa, R. Crupi, D. Impellizzeri, S. Cuzzocrea, R. Di Paola
-
- P71** **Co-ultraPEALut: role in preclinical delirium manifestations**
R. Siracusa (*Messina*), R. Crupi, M. Cordaro, D. Impellizzeri, R. Di Paola, S. Cuzzocrea
-
- P72** **Cerebral gene expression alterations in the α -galactosidase A deficient mouse: likely correlations with the neurological hallmarks of Fabry disease**
L. Rullo (*Bologna*), F. F. Caputi, M. Caprini, P. Romualdi, S. Candeletti
-
- P73** **The Hexane Fraction of *Bursera microphylla* A Gray Induces p21-Mediated Antiproliferative and Proapoptotic Effects in Human Cancer-Derived Cell Lines**
S. Adorisio (*Perugia*), A. Fierabracci, G. Gigliarelli, I. Muscari, L. Cannarile, A. M. Liberati, M. C. Marcotullio, C. Riccardi, M. Curini, R. E. Robles Zepeda, D. V. Delfino
-
- P74** **The phytoestrogen Genistein stimulates bone remodelling through Wnt/ β -catenin pathway in an *in vitro* model of osteoporosis**
F. Mannino (*Messina*), N. Irrera, G. Pallio, F. Squadrito, D. Altavilla, A. Bitto
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- P75** **Prevalence, Determinants and Patterns of Use of Medicinal Plants among People Living with HIV in Dschang, Cameroon**
A. Mabou Tagne (Varese), P. C. Biapa Nya, A. Tiotsia Tsapi, A. K. Edingue Essoh, G. Pembouong, M. A. Ngouadjeu Ngnintedem, F. Marino, M. Cosentino
-
- 15.30-16.00 **Coffee Break**
-
- 16.00-18.00 **PLENARY LECTURE**
INTRODUCED BY: *M. Biagioli (Perugia)*
NGS and Highthroughput solution for metagenomic and pharmacogenetic studies
M. Barba (Monza)
-
- 18.00-19.30 **YOUNG SIF MEMBERS GROUP ASSEMBLY**
-

SATURDAY SEPTEMBER 22

Sala Open Circle

- 9.00-10.30 **Oral communications**
CARDIOVASCULAR PHARMACOLOGY
CHAIRPERSONS: L. Bazzani (*Siena*), N. Lombardi (*Florence*)
- 9.00 **The effect of the DPP-4 inhibitor Linagliptin to improve functional outcome after stroke is mediated by the CXCR4/SDF-1 α pathway**
F. Chiazza (*Turin*), H. Tammen, H. Pintana, G. Lietzau, M. Collino, T. Nyström, T. Klein, V. Darsalia, C. Patrone
- 9.15 **Leukotriene-mediated sex dimorphism in pulmonary arterial hypertension monocrotaline-induced rat**
T. P. Russo (*Naples*), A. Liparulo, G. Spaziano, A. Rossi, F. Roviezzo, R. Filosa, M. Sgambato, G. Tartaglione, R. Esposito, B. D'Agostino
- 9.30 **Decrease of ALDH2 in endothelium promotes oxidative stress and endothelial cell impairment**
G. Nannelli (*Siena*), E. Terzuoli, V. Giorgio, S. Donnini, P. Bernardi, M. Ziche
- 9.45 **Apolipoprotein E modulates CD4+ T cell response by promoting cellular cholesterol metabolism in dendritic cells**
F. Bonacina (*Milan*), D. Coe, G. Wang, A. Baragetti, F. Pellegatta, L. Grigore, A. L. Catapano, F. Marelli-Berg, G. D. Norata
- 10.00 **Vasorelaxing and antihypertensive properties of Erucin, an isothiocyanate from *Eruca sativa* Mill. (Brassicaceae): is H₂S the silent player?**
E. Piragine (*Pisa*), V. Citi, L. Testai, M. C. Breschi, E. Pagnotta, L. Lazzeri, L. Ugolini, V. Calderone, A. Martelli
- 10.30 **Coffee break**
- 11.00-12.15 **Oral communications**
METABOLISM AND TOXICOLOGY
CHAIRPERSONS: A. Grolla (*Novara*), A. Lama (*Naples*)
- 11.00 **Hydrogen sulfide involvement in uterus of diabetic mice**
D. Gurgone (*Naples*), E. Mitidieri, G. Cirino, R. D'Emmanuele di Villa Bianca, R. Sorrentino
- 11.15 **Palmitoylethanolamide improves mitochondrial dysfunction in *in vivo* and *in vitro* models of obesity and liver steatosis**
C. Annunziata (*Naples*), C. Pirozzi, G. Cavaliere, A. Lama, A. Nitrato Izzo, G. Trinchese, R. Russo, A. Calignano, G. Mattace Raso, M. P. Mollica, R. Meli
-

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- 11.30 **Valproic acid-induced hepatotoxicity: protective effects of sodium butyrate in *in vitro* and *in vivo* models**
 C. Pirozzi (*Naples*), C. Annunziata, A. Lama, C. De Caro, G. Cavaliere, E. Russo, R. Citraro, M. P. Mollica, G. Mattace Raso, A. Calignano, G. B. De Sarro, R. Meli
-
- 11.45 **Oxaliplatin induces pH acidification in dorsal root ganglia neurons**
 B. Riva (*Novara*), M. Dionisi, A. Potenzieri, A. Chiorazzi, C. Cordero-Sanchez, R. Rigolio, V. A. Carozzi, D. Lim, G. Cavaletti, P. Marmioli, C. Distasi, A. A. Genazzani
-
- 12.00 **Assessment of the *in vitro* skin sensitization properties of graphene and graphene oxide**
 L. Fusco (*Trieste*), M. Pelin, C. Martín, S. Sosa, E. Vázquez, S. P. Mukherjee, B. Fadeel, M. Prato, A. Tubaro
-
- 12.15-13.00 **Conclusions
SIF AWARDS**
-
- Sala Ascolto**
-
- 9.00-10.45 **Oral Communications
INFLAMMATION PHARMACOLOGY**
 CHAIRPERSONS: M. Cordaro (*Messina*), G. Dothel (*Bologna*)
-
- 9.00 **Development of allergic sensitization in CD73 deficient mice**
 E. Caiazzo (*Naples*), F. Roviezzo, M. A. Riemma, R. Bilancia, A. Ialenti, C. Cicala
-
- 9.15 **N-Acylethanolamine Acid Amidase controls pain and inflammation**
 Y. Fotio (*Camerino*), K. Genaro, R. Ciccocioppo, D. Piomelli
-
- 9.30 **P2X₇ receptors influences the osteogenic differentiation of mesenchymal stromal/stem cells derived from human subcutaneous adipose tissue**
 M. Carluccio (*Chieti*), S. Ziberi, M. Zuccarini, P. Giuliani, C. Morabito, M. A. Marigliò, P. Di Iorio, F. Caciagli, R. Ciccarelli
-
- 9.45 **Air pollution induces IL-1-biased inflammation in COPD human samples and *in vivo***
 C. Colarusso (*Salerno*), G. De Falco, M. Terlizzi, A. D'Anna, R. P. Aquino, A. Pinto, R. Sorrentino
-
- 10.00 **Statins regulates inflammatory macrophage phenotype through the activation of AhR**
 G. Manni (*Perugia*), M. Gargaro, A. Turco, G. Scalisi, D. Matino, M. Pirro, P. Puccetti, F. Fallarino
-

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- 10.15 **Melanocortin receptor 5 controls neovascularization from high glucose in human retinal pigment epithelial cells ARPE-19: role of VEGF-exosomes**
R. Maisto (*Naples*), M. Oltra, L. Vidal, N. Martínez-Gil, F. J. Sancho-Pellúz, C. Di Filippo, S. Rossi, M. D'Amico, J. M. Barcia, F. J. Romero
-
- 10.30 **Modulation of Src kinase by the natural polyamines**
G. Mondanelli (*Perugia*), E. Proietti, M. T. Pallotta, C. Volpi, U. Grohmann
-
- 10.45 **Coffee Break**
-
- 11.00-12.15 **Oral Communications**
RARE DISEASES
 CHAIRPERSONS: C. Altamura (*Bari*), E. Caiazzo (*Naples*)
-
- 11.00 **Src tyrosine kinase as a drug target in Duchenne muscular dystrophy: effects of a new oral formulation of dasatinib in the exercised *mdx* mouse**
B. Boccanegra (*Bari*), P. Mantuano, F. Sanarica, A. Cutrignelli, N. Denora, A. Mele, M. De Bellis, A. De Luca
-
- 11.15 **A long – term treatment with taurine prevents cardiac dysfunction in dystrophic *mdx* mice**
P. Mantuano (*Bari*), A. Mele, F. Sanarica, F. Rana, M. G. Morgese, M. Bove, J. F. Rolland, R. F. Capogrosso, S. Pierno, L. Trabace, A. De Luca
-
- 11.30 **Modulation of the activity of the synaptic phosphodiesterase PDE2A corrects the behavioral deficits observed in a preclinical model of Fragile x syndrome**
F. Melancia (*Rome*), M. Servadio, S. Schiavi, M. Jarjat, B. Bardoni, V. Trezza
-
- 11.45 **A new multidisciplinary approach in pharmacological research for muscular dystrophies: the optogenetic engineered 3-D artificial muscle**
F. Sanarica (*Bari*), O. Cappellari, D. Wells, A. De Luca
-
- 12.00 **Functional characterization of two novel mutations in *CLCNKB* associated with Bartter syndrome**
D. Sahbani (*Bari*), P. Imbrici, A. Liantonio, S. Tedeschi, B. Strumbo, G. Montini
-

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