

41° CONGRESSO NAZIONALE della SOCIETÀ ITALIANA di FARMACOLOGIA

**IL VALORE SCIENTIFICO
e l'USO APPROPRIATO
del FARMACO**

**Roma, Ergife Palace Hotel
16-19 novembre 2022**

**PROGRAMMA
SCIENTIFICO**



SOCIETÀ ITALIANA DI FARMACOLOGIA

3PSOLUTION
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Carissime e Carissimi,

è un grande piacere invitarvi al 41° Congresso Nazionale della Società Italiana di Farmacologia (SIF), che si svolgerà in presenza, a Roma, dal 16 al 19 novembre 2022.

Il Consiglio Direttivo ha approvato la mia proposta di trasformare il Congresso da biennale ad annuale. Nel 2021 il 40° Congresso, che si è svolto in modalità digitale, è stato un successo sia scientifico che organizzativo, con una partecipazione di circa 2.000 iscritti per un totale di 11.000 accessi.

Ho ritenuto di fare questa sperimentazione annuale, in quanto la Farmacologia sta vivendo un periodo esaltante di grande trasformazione ed è chiamata a rivestire un ruolo sempre più centrale attraverso nuove metodologie di ricerca, terapie avanzate quali le terapie geniche e cellulari, l'intelligenza artificiale, i *big data* e la medicina personalizzata.

Per malattie cronico-degenerative, oncologiche, immunologiche, cardiovascolari-dismetaboliche e infettive sono in sviluppo farmaci innovativi che possono dare risposta alle esigenze dei pazienti e che hanno contribuito a curare malattie per le quali, fino a qualche anno fa, non vi erano prospettive terapeutiche. Siamo consapevoli che le terapie avanzate hanno un costo elevato, bisogna quindi impostare delle politiche di *governance* del farmaco che non mettano in crisi la sostenibilità del nostro Servizio Sanitario Nazionale.

La pandemia in corso ha esercitato una notevole pressione sulla necessità di fare formazione e informazione sul tema della innovazione, che sta diventando sempre più presente e, pertanto, risulta strategico affiancare modelli organizzativi nuovi, consentendo l'accesso rapido ai trattamenti più innovativi nell'ambito dei costi assistenziali, come è avvenuto per l'approvazione dei vaccini anti-COVID. Questi nuovi modelli di *governance* potranno trarre beneficio da forme di partenariato pubblico-privato, dagli strumenti messi a disposizione dalla medicina digitale e dalla intelligenza artificiale applicata alla salute.

Il mondo del farmaco sta, quindi, cambiando rapidamente ed il Farmacologo deve essere aggiornato in tempo reale sul piano della formazione, della informazione (SIF Magazine), dell'appropriatezza e della ricerca preclinica, traslazionale e clinica. Nel Congresso annuale verranno affrontati temi di grande attualità, proposti dai Gruppi di Lavoro della SIF, con lo scopo di implementare un dialogo multidisciplinare attraverso *joint symposia* con le Società cliniche specifiche delle diverse aree terapeutiche, stimolando anche la partecipazione di medici specialisti.

Ho mantenuto il tema del mio mandato: **"Il valore scientifico e l'uso appropriato del farmaco"**. Ci confronteremo quindi con diversi *stakeholder* della filiera di sviluppo di un farmaco. I farmacologi di base e clinici devono essere gli attori principali che dovranno promuovere attività ed iniziative post-congressuali con altri esperti di ricerca pubblici e privati, con i regolatori e i politici, con le associazioni dei cittadini-pazienti e con le aziende farmaceutiche con modalità di confronto costruttivo. Durante il Congresso, affronteremo anche delicate tematiche universitarie, non solo sulla formazione e sulle carriere del Farmacologo nei vari corsi di laurea, ma anche come rivalutare il suo ruolo essenziale per lo sviluppo e le conoscenze del farmaco in laboratori di ricerca e nel Servizio Sanitario Nazionale. Particolare riguardo verrà dato anche al ruolo dei giovani farmacologi della SIF, che avranno spazio anche nella giornata pregressuale (i giorni 15 e 16 novembre) per organizzare sessioni scientifiche da loro selezionate.

A nome del Consiglio Direttivo, ringrazio i Soci che hanno votato la proroga del nostro mandato, dimostrando fiducia sul nostro operato, permettendoci di portare avanti i progetti che il *lockdown* ci ha impedito di effettuare.

Vi aspetto numerosi al Congresso.

Giorgio Racagni

Presidente SIF

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SEGRETERIA SCIENTIFICA

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Referenti della segreteria:

- Ida Ceserani
- Muriel Bertomoro
- M. Elena Scamoni
- Adele Tangolo

Durante il Congresso sarà possibile rivolgersi alla Segreteria SIF presso il desk dedicato.



PROVIDER E SEGRETERIA ORGANIZZATIVA

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41° CONGRESSO NAZIONALE della SOCIETÀ ITALIANA di FARMACOLOGIA



Con il patrocinio di:

*Istituto Superiore
di Sanità*



INFORMAZIONI GENERALI

ISCRIZIONE IN SEDE CONGRESSUALE

Per i **SOCI** è possibile iscriversi presso la postazione della **Segreteria SIF (quote esente IVA)**:

Quote di iscrizione esenti IVA	Quote
Socio SIF	€ 450.00
Socio SIF Under 38 NON STRUTTURATO	€ 150.00
Socio SIF Under 38 STRUTTURATO	€ 200.00
QUOTA GIORNALIERA (tutte le categorie di socio)	€ 180.00

Per i **NON SOCI** è possibile iscriversi presso la postazione della **Segreteria Organizzativa 3P Solution**:

Quote di iscrizione IVA inclusa (22%)	Quote
Non Socio	€ 854.00
Non Socio SIF Under 38	€ 293.00
QUOTA GIORNALIERA	€ 305.00

La quota di iscrizione comprende:

- Accesso alle sale e agli spazi espositivi
- Partecipazione ai lavori scientifici
- Accesso al coffee - break
- Borsa congressuale
- Attestato di partecipazione

PAGAMENTO QUOTA DI PARTECIPAZIONE

Le quote di partecipazione possono essere pagate tramite:

- contanti
- carta di credito via Pay Pal (Visa - American Express - Mastercard)

ACCESSO ALLA SEDE CONGRESSUALE

L'accesso sarà consentito solo agli iscritti in possesso del badge nominativo.

GUARDAROBA

Per i partecipanti al Congresso è disponibile un guardaroba custodito presso la sede dell'Ergife Palace Hotel.

Gli orari del servizio seguono quelli dei lavori congressuali. I partecipanti sono pregati di controllare gli orari e di ritirare i propri effetti personali entro l'orario di chiusura.

SEGRETERIA SIF

La Segreteria SIF è operativa presso il desk SIF durante tutta la durata del congresso per informazioni inerenti all'associazione e per le iscrizioni al congresso per i SOCI SIF.

BADGE

A ciascun partecipante iscritto verrà consegnato un badge nominativo che dovrà essere sempre esibito per poter accedere alle aule dove si svolgono le sessioni scientifiche, ai lunch e ai coffee break.

SEDE CONGRESSUALE

Ergife Palace Hotel & Conference Center

Largo Lorenzo Mossa, 8
00165 Roma RM

Ergife Palace Hotel & Conference Center - Google Maps

Indicazioni per arrivare alla sede congressuale:

• **STAZIONE TERMINI**

- Bus 246 fino a Piazza Inerio
- Metro linea A direzione Battistini, fermata Cornelia, da Cornelia prendere Bus 246 per 2 fermate. Dalla fermata all'hotel sono pochi passi.

• **AUTOSTRADA**

All'uscita dell'autostrada prendere il grande raccordo anulare in direzione Fiumicino, uscita n.1 direzione Aurelia Città del Vaticano, dopo circa 3km al quarto semaforo girare a destra in via Lombardi, l'hotel si trova in fondo alla via.

• **AEROPORTO FIUMICINO LEONARDO DA VINCI**

L'Aeroporto Leonardo Da Vinci si trova a circa 25 km dall'hotel, prendere treno diretto Leonardo Express per Roma Termini, prendere la metro linea A direzione Battistini, fermata Cornelia, da Cornelia prendere Bus 246 per 2 fermate. Dalla fermata all'hotel sono pochi passi.

• **AEROPORTO CIAMPINO**

L'Aeroporto di Ciampino si trova a circa 30 km dall'hotel, prendere un Bus Cotral o un Bus Terravision per raggiungere la Stazione di Roma Termini, prendere la metro linea A direzione Battistini, fermata Cornelia, da Cornelia prendere Bus 246 per 2 fermate. Dalla fermata all'hotel sono pochi passi.

INFORMAZIONI SUL PROGRAMMA

Il Congresso è suddiviso in due aree:

- un'area di formazione ECM
- un'area congressuale NON ECM

ECM

La Commissione Nazionale per la Formazione Continua ha formulato parere positivo all'accreditamento di 3P Solution Srl come PROVIDER STANDARD (codice 327, autorizzato il 15 ottobre 2012). La responsabilità per i contenuti, la qualità e la correttezza etica delle attività ECM è a carico di 3P Solution.

Il programma accreditato ECM è identificato nel programma scientifico.

Il Congresso è accreditato (4,5 crediti ECM) per 201 partecipanti appartenenti alle seguenti categorie professionali:

- Medico Chirurgo (Allergologia e Immunologia clinica; Anatomia Patologica; Anestesia e Rianimazione; Angiologia; Audiologia e Foniatria; Biochimica Clinica; Cardiocirurgia; Cardiologia; Chirurgia generale; Chirurgia Maxillo-facciale; Chirurgia Pediatrica; Chirurgia Plastica e Ricostruttiva; Chirurgia Toracica; Chirurgia Vascolare; Continuità Assistenziale; Cure Palliative; Dermatologia e Venereologia; direzione medica di presidio ospedaliero; Ematologia; Endocrinologia; Epidemiologia; Farmacologia e Tossicologia clinica; Gastroenterologia; Genetica Medica; Geriatria; Ginecologia e Ostetricia; Igiene degli Alimenti e della Nutrizione; Igiene, Epidemiologia e Sanità Pubblica; laboratorio di Genetica Medica; malattie dell'apparato respiratorio; malattie infettive; malattie metaboliche e Diabetologia; Medicina Aeronautica e spaziale; medicina del lavoro e sicurezza degli ambienti di lavoro; medicina dello sport; medicina di comunità; medicina e Chirurgia di accettazione e di urgenza; medicina Fisica e Riabilitazione; medicina Generale (medici di famiglia); medicina interna; medicina legale; medicina nucleare; medicina subacquea e iperbarica; medicina termale; medicina trasfusionale; microbiologia e virologia; Nefrologia; Neonatologia; Neurochirurgia; Neurofisiopatologia; Neurologia; Neuropsichiatria infantile; Neuroradiologia; Oftalmologia; Oncologia; organizzazione dei servizi sanitari di base; Ortopedia e Traumatologia; Otorinolaringoiatria; patologia clinica (laboratorio di analisi chimico-cliniche e microbiologia); Pediatria; Pediatria (pediatri di libera scelta); Psichiatria; Psicoterapia; Radiodiagnostica; Radioterapia; Reumatologia; scienza dell'alimentazione e dietetica; Urologia)

- Farmacista (Farmacia ospedaliera, Farmacia territoriale)

- Assistente Sanitario

- Odontoiatra

- Veterinario (igiene degli allevamenti e delle produzioni zootecniche; igiene prod., trasf., commercial., conserv. e tras. Alimenti di origine animale e derivati; sanità animale)

- Biologo

- Fisico

- Chimico

- Psicologo (Psicologia; Psicoterapia)

- Infermiere

- Infermiere Pediatrico

- Ostetrica/o

- Tecnico Sanitario di Radiologia Medica

- Tecnico Audiometrista

- Tecnico Sanitario di Laboratorio Biomedico

- Tecnico di Neurofisiopatologia
- Tecnico della Prevenzione nell'Ambiente e nei luoghi di lavoro
- Tecnico Ortopedico
- Tecnico Audioprotesista
- Tecnico della Fisiopatologia Cardiocircolatoria e Perfusione Cardiovascolare
- Igienista dentale
- Dietista
- Podologo
- Fisioterapista
- Logopedista
- Ortottista
- Terapista della Neuro e Psicomotricità dell'Età Evolutiva
- Tecnico Riabilitazione Psichiatrica
- Terapista Occupazionale
- Educatore Professionale

Per ottenere l'attribuzione dei crediti ECM è necessario:

- aver compilato correttamente e in ogni sua parte la scheda d'iscrizione cartacea o il form di iscrizione on line con tutti i dati personali;
- garantire la propria presenza in misura uguale o superiore al 90% del programma accreditato;
- al termine del Congresso consegnare il modulo di valutazione dell'evento ricevuto unitamente al materiale congressuale.

Attestato crediti ECM

L'attestato riportante i crediti ECM sarà inviato successivamente al completamento della procedura di validazione.

I relatori di simposi e letture accreditati che hanno compilato correttamente e in ogni sua parte la scheda d'iscrizione cartacea o il form di iscrizione on line con tutti i dati personali, avranno diritto a 1 credito ECM per ogni mezz'ora continuativa di docenza, indipendentemente dai crediti attribuiti all'evento.

Attestato di partecipazione

L'attestato di partecipazione verrà rilasciato a tutti gli iscritti che ne faranno richiesta alla Segreteria presso la Sede Congressuale, al termine dei lavori scientifici.

INFORMAZIONI SCIENTIFICHE

TEMI TRASVERSALI

- Aspetti regolatori e politiche del farmaco
- Digital Health
- Dipendenze patologiche
- Dispositivi medici
- Farmacogenetica
- Farmacologia di genere
- Farmacologia pediatrica
- Farmacovigilanza, Farmacoepidemiologia, Farmacoeconomia & Real World Evidence (RWE)
- Innovazione, etica e sostenibilità
- Medicina personalizzata
- Povertà farmaceutica
- Ricerca farmacologica di base e clinica
- Tossicologia

TEMI SPECIFICI

- Chemioterapia e vaccini
- Farmacognosia, fitoterapia e nutraceutica
- Farmacologia apparato digerente
- Farmacologia del dolore
- Farmacologia oncologica
- Farmacologia rigenerativa
- Farmacologia sistema cardiovascolare e metabolico
- Farmacologia sistema endocrino
- Farmacologia sistema immunitario e dell'infiammazione
- Farmacologia sistema nervoso
- Farmacologia sistema respiratorio
- Malattie infettive
- Malattie rare
- Terapie avanzate

LINEE GUIDA PER I RELATORI DEI SIMPOSI, DELLE LETTURE E DELLE COMUNICAZIONI ORALI

Al fine di garantire il rispetto delle tempistiche, i Relatori sono invitati a seguire le linee guida sotto riportate.

1. Secondo la regolamentazione ECM, i **nomi specifici** di prodotti medicinali non possono essere presenti durante le sessioni accreditate. Più specificatamente, sono permessi solo i nomi generici (principi attivi, strumenti, dispositivi) e i nomi commerciali non possono essere riportati, anche se non correlati all'argomento trattato. In aggiunta, non può essere indicata alcuna azienda farmaceutica.
2. I **Relatori** sono invitati a depositare la propria presentazione su **chiavetta USB presso lo slide center entro le 24 ore precedenti alla propria sessione**. Le presentazioni possono anche essere trasmesse tramite email all'**indirizzo congressoSIF@3psolution.it**. Solamente per le sessioni di mercoledì 16 novembre, è possibile depositare le relative slide entro 3 ore dall'inizio del simposio. Le presentazioni saranno precaricate sul software integrato con un **timer** e saranno accessibili direttamente dal podio della sala.
3. I file devono essere solamente in **formato PowerPoint** (.ppt o .pptx) e nominati come segue: **CognomeNome-data del simposio** (es: BianchiMario-16nov).
4. Non è permessa la connessione del proprio pc al proiettore. Tutte le proiezioni saranno gestite da un sistema unico, che raccoglie le slide e permette di caricarle direttamente in sala congressuale.
5. I **Relatori** sono fortemente incoraggiati a rispettare le tempistiche assegnate. Un **timer** sarà visibile durante la relazione per controllare il tempo rimanente.

Le relazioni dovranno rispettare rigorosamente le tempistiche schedate delle sessioni, pertanto i **Moderatori** sono invitati a esortare il rispetto degli orari sin dall'inizio del simposio. Una hostess e/o un assistente tecnico saranno presenti in sala a supporto dei Relatori per eventuali problemi o richieste estemporanee.

LINEE GUIDA PER I MODERATORI

I **Moderatori** sono fortemente raccomandati di presentarsi in sala almeno 10 minuti prima dell'inizio della sessione e di garantire il rispetto delle tempistiche della sessione e di ogni relazione.

LINEE GUIDA PER LE POSTER SESSION

I **Presenting Author** sono invitati ad essere disponibili per la discussione durante le poster session (dettagli di seguito):

Poster Session I: 17 novembre, dalle ore 08:30 alle ore 15:00

ALLESTIMENTO POSTER: 10:00 - 10:15

ESPOSIZIONE POSTER: 10:15 - 15:00

DISCUSSIONE POSTER CON IL PRESENTING AUTHOR: 13:45 - 15:00

DISALLESTIMENTO POSTER: 15:00 - 15:15

Poster Session II: 17 novembre, dalle ore 16:00 alle ore 20:30

ALLESTIMENTO POSTER: 15:45 - 16:00

ESPOSIZIONE POSTER: 16:00 - 20:30

DISCUSSIONE POSTER CON IL PRESENTING AUTHOR: 19:00 - 20:30

DISALLESTIMENTO POSTER: 20:30 - 20:45

Poster Session III: 18 novembre, dalle ore 08:30 alle ore 15:00

ALLESTIMENTO POSTER: 10:00 - 10:15

ESPOSIZIONE POSTER: 10:15 - 15:00

DISCUSSIONE POSTER CON IL PRESENTING AUTHOR: 13:45 - 15:00

DISALLESTIMENTO POSTER: 15:00 - 15:15

Tutti i poster dovranno essere in **inglese**, e le **dimensioni** non dovranno superare i 90 cm di larghezza e 160 cm in altezza.

I pannelli dedicati ai poster saranno numerati e gli Autori dovranno accertarsi di apporre il proprio lavoro nel pannello a loro assegnato.

Tutti i poster dovranno essere disallestiti alla fine della sessione di presentazione, secondo gli orari indicati.

La Segreteria non custodirà i poster che non sono stati rimossi entro i termini stabiliti.

SLIDE CENTERS

Opening:

Wednesday, November 16th, 12.00 - 19.00

Thursday November 17th, 08.00 - 19.00

Friday November 18th, 08.00 - 19.00

Saturday November 19th, 08.00 - 12.00

Mercoledì 16 novembre 2022

	AREA FORMAZIONE ECM	AREA FORMAZIONE NON ECM									
Ora	MASSALIA II	LEPTIS MAGNA	MASSALIA I	BAALBEK	TARRAGONA	PERGAMO	MYSALA				
14.00-15.00	Symposium Sex-bias in preclinical research	Oral Communications Neuropharmacology 1	Oral Communications Cancer Pharmacology 1	Oral Communications Pharmacovigilance, Pharmacoepidemiology, Pharmacoeconomy and Real World Evidence 1	Oral Communications Cardiometabolic Pharmacology	Oral Communications Basic and Clinical Research	Symposium Biomarkers for optimization of pharmacotherapy: focus On immune-mediated diseases				
15.00-16.00											
16.00-17.00	OPENING CEREMONY - LEPTIS MAGNA										
17.00-17.45	LEPTIS MAGNA Opening Plenary Lecture - Science and politics: to each his own, in the interest of citizens - Elena Cattaneo (Rome)										
17.45-19.15	LEPTIS MAGNA Plenary Round Table - PNRR and drug policies in support of the National Health Care System										

Giovedì 17 novembre 2022

Ora	AREA FORMAZIONE ECM		AREA FORMAZIONE NON ECM					
	MASSALIA II	MASSALIA II	LEPTIS MAGNA	MASSALIA I	BAALBEK	TARRAGONA	PERGAMO	MYSALA
8.30-9.00		Oral Communications Approaching Pharmacological Space and New Challenges in pharmacology	Symposium New options for understanding and treating chronic pain	Symposium Emerging therapeutic concepts and drugs in cancer therapy	Oral Communications Inflammation Pharmacology and Immunopharmacology		Symposium Patterns of patients' differentiation in respiratory diseases	SIF-Associazione Italiana di Epidemiologia Joint Symposium How to deal with polypharmacy? From quality of care indicators to deprescribing
9.00-9.30					Lecture Complexity in developing an orphan drug: the case study of Polihexanide	Symposium Immune dysregulation in cardiovascular disease - from novel mechanisms to therapeutic targeting		
9.30-10.00	Round Table Population medicine in chronic diseases: Cardiovascular pathologies		Special Lecture Real World Evidence in support of the implementation of mission 6 of PNRR - Nello Martini (Rome)	Lecture Novel immunotherapies in multiple myeloma	Round Table Developing therapies for rare pediatric diseases: new rules and tools	Special Lecture Resolution (of inflammation): women do it better - Amrita Ahluwalia (UK)		Lecture Orexin: a new target for insomnia treatment
10.00-10.30				Lecture Immunotherapy of cancer - what we know and what we can still achieve: future perspectives				
10.30-11.00		Special Lecture Acetylsalicylic Acid 1897-2022: New Avenues for Research - Carlo Patrano (Rome)	Round Table Real World Evidence in support of the implementation of mission 6 of PNRR: the role of scientific societies in the national plan of study and research	Lecture The evolution of early stage non-small-cell lung cancer treatment and the new role of immunotherapy		Symposium Immunometabolism as an emergent therapeutic target in autoimmunity	SIF-SITOX Round Table Efficacy and safety of nutraceutical products	Symposium Focus On histamine and sleep disorders
11.00-11.30								
11.45-12.15			LEPTIS MAGNA Plenary Lecture - Personalised cancer medicine: design of chemical probes and drugs - Paul Workman (UK)					
12.15-13.45			LEPTIS MAGNA Plenary Round Table - What is the role of the future pharmacology and medicine for the Personalized Health-Care (PHC)?					
13.45-14.30			Poster Session I and Lunch					General Assembly "Collegio Nazionale dei Farmacologi Universitari"
14.30-15.00								
15.00-15.30	Symposium Therapeutic perspectives in chronic heart failure: clinical and experimental aspects		Round Table PNRR Where are we going? The partnership in response to the Sanitary System	Round Table New horizons in cancer pharmacology and therapeutics. Toward innovative research paths in Italy	Symposium New therapeutic approaches in rare diseases	Lecture Type 2 inflammation: overview and role of Dupilumab in current and future indications	Symposium Novel mechanisms, atypical drugs and cell-based therapies for the treatment of inflammatory and autoimmune diseases	Symposium Treatment-Resistant Depression: the role of fast-acting antidepressants
15.30-16.00						Symposium Time to implement pharmacogenetic test in the clinical practice: a public health opportunity		
16.00-16.30			Symposium Pharmacological strategies for selective targeting in cancer treatment				Symposium Sex and gender inequality in pharmacology: raising awareness and motivating change	Symposium Impact of early life experiences on psychiatric conditions: accounting for sex differences
16.30-17.00	Symposium Gene silencing strategies in dyslipidemias					SIF-IsOP-SIMeF Joint Symposium Big data and artificial intelligence in Pharmacovigilance		
17.00-17.30				Oral Communications Addiction and Pain				
17.30-18.00	Joint Symposium SIF-SISA Treatment of hypertriglyceridemias				Symposium From rare to common diseases: a continuous path for the development of novel therapeutics			
18.00-18.30						General Assembly "Sezione di Farmacologia Clinica della SIF"		
18.30-19.00								
19.00-20.30								

Poster Session II

Venerdì 18 novembre 2022

Venerdì 18 novembre 2022								
	AREA FORMAZIONE ECM	AREA FORMAZIONE NON ECM						
Ora	MASSALIA II	LEPTIS MAGNA	MASSALIA I	BAALBEK	TARRAGONA	PERGAMO	MYSALA	SPALATO
8.30-9.00	Symposium New perspectives in microbiota and gut-brain axis	Symposium The gliflozin lesson: where will we end up?	Oral Communications Toxicology	Symposium New challenges in Alzheimer's Disease: what lesson can we take from the past?	Symposium Cannabis, between therapy and toxicity: the bad and the good for the brain	Oral Communications Pharmacognosy	Symposium How to prevent and to treat COVID-19 in pediatrics	Symposium Detection and adverse effects of drugs in the environment
9.00-9.30								
9.30-10.00								
10.00-10.30			Round Table The value of personalized therapy: CAR-T today				Lecture Monoclonal Antibodies for the prevention of Respiratory Syncytial Virus in young children	
10.30-11.00	Symposium Brain-gut axis as a key target for the treatment of stress-related diseases	SIF-Egualia Round Table Medicines reconciliation: generic medicine's role in chronic diseases at community health level		Special Lecture "Rodolfo Paoletti" Exploring the synapse: novel insights into diagnosis and treatment of Alzheimer Disease - Monica Dilella (Milan)		Symposium Nutraceuticals and rare diseases: evidences and experimental approaches for a rationale use		Symposium New Frontiers in chronic inflammation treatments
11.00-11.30			Lecture New Treatment solutions to address the unmet need of patients with previously untreated diffuse large B cell lymphoma (DLBCL)	Lecture S1PR modulators in multiple sclerosis management	Round Table Real world data in a value based health system. The example of age-related macular degeneration		Round Table Antimicrobial resistance	
11.45-12.15	LEPTIS MAGNA Plenary Lecture - siRNA: ready for prime-time - David Webb (UK)							
12.15-13.45	LEPTIS MAGNA Plenary Round Table - Scientific value and appropriate use of medicine: the role of SIF							
13.45-15.00	Poster Session III and Lunch							
15.00-15.30	Symposium Neurobiology of stress-related neuropsychiatric disorders: mechanisms of vulnerability and therapeutic strategies	Lecture Antisense oligonucleotides (ASOs): The evolution of a new therapeutic paradigm	Symposium Innovation in the treatment of hemophilia: a change of paradigm	Round Table The care of multiple sclerosis patient: the right therapy at the right time	Symposium Medical devices made of substances: scientific and regulatory aspects	Lecture SIF consensus update for botulinum toxin	Symposium Type2 Diabetes Mellitus: an evolving disease	Symposium New Frontiers in Immunopharmacological Treatments
15.30-16.00								
16.00-16.30	Symposium "Giancarlo Pepeu" Cognitive dysfunctions in neuropsychiatric disorders: mechanisms and therapeutic challenges	Symposium Repurposing/repurposing of drugs to cover unmet pediatric therapeutic needs	Symposium Antibody-drug conjugates in metastatic breast cancer: from clinical pharmacology considerations to patient care	Symposium The BBB as an additional target for the treatment of brain disorders	Round Table Decentralized Clinical Trials	Symposium Nutraceuticals in paediatrics: efficacy and safety		
16.30-17.00								
17.00-17.30								
17.30-18.00		Symposium Didactic aspects under the aegis of the Collegio Nazionale dei Farmacologi Universitari (CNFU)	Round Table Animal studies on Substance Use Disorders in Italy: focus on scientific relevance, regulation laws and alternative methods	Symposium An Inflammation-Centric view of neurodegenerative diseases	Lecture HTA of chronic aspects in the lymphoproliferative diseases	Oral Communications Targeting neuronal chloride transporters NKCC1 and KCC2 for psychiatric and neurological disorders	Symposium Pharmacologic approaches for the treatment of eating disorders and obesity	Symposium Non-neuronal cells as pharmacological target for novel therapies against pain and related symptoms
18.00-18.30								
18.30-19.30	LEPTIS MAGNA - SIF General Assembly							

Sabato 19 novembre 2022

	AREA FORMAZIONE ECM	AREA FORMAZIONE NON ECM					
Ora	MASSALIA II	LEPTIS MAGNA	MASSALIA I	BAALBEK	TARRAGONA	PERGAMO	MYSALA
8.20-8.30						Oral Communications Pharmacology of Rare Diseases	
8.30-9.00		SIF-EACPT joint Symposium COVID-19 vaccine safety: what have we learned?	Oral Communications Neuropharmacology 2	Oral Communications Cancer Pharmacology 2	Oral Communications Pharmacovigilance, Pharmacoepidemiology, Pharmacoeconomy and Real World Evidence 2		Oral Communications Chemotherapy and infectious disease
9.00-9.30	Symposium New hopes for the therapy of amyotrophic lateral sclerosis, from preclinical to clinical studies						
9.30-10.00		Symposium COVID-19 and the new paradigms of drug research	Symposium State of the art and perspectives in cancer biomarkers research and application	Symposium Novel targets in the treatment of chronic pain	Symposium Environmental factors during pregnancy and enhanced risk for mental illness	Symposium Natural products in the management of cognitive impairment and behavioral disorders: from bench to bedside	Symposium Therapeutic Drug Monitoring (TDM) of anti-infective agents
10.00-10.30	Symposium Circulating Extracellular Vesicles: cellular mediators, biomarkers and therapeutic tools						
10.30-11.00							
11.00-11.30							
11.45-12.15		LEPTIS MAGNA Plenary Lecture - The neurobiology of social behavior: implication for mental health - Camilla Bellone (Switzerland)					
12.15-12.45		LEPTIS MAGNA Plenary Special Lecture - The future of pharmaceutical industry: perspectives - Marcello Cattani (Rome)					
12.45-13.30		Plenary session LEPTIS MAGNA - Conclusions, Awards and Grants					

41 CONGRESSO NAZIONALE della SOCIETÀ ITALIANA di FARMACOLOGIA

**IL VALORE SCIENTIFICO
e l'USO APPROPRIATO
del FARMACO**

**AREA
FORMAZIONE
ECM**



MASSALIA II

14.00-16.00

SYMPOSIUM

Sex-bias in preclinical research

Chairpersons: **Vincenzo Cuomo, Liana Fattore, Luigia Trabace**

- 14.00** Studying biological sex differences in cellular models:
a methodological approach
Maria Grazia Cattaneo
- 14.15** Experimental approach to gender pharmacology: vascular function and beyond
Vincenzo Brancaleone
- 14.30** *In vivo* evaluation of biological sex differences: a methodological approach
Maria Grazia Morgese
- 14.45** Sex role in pre-clinical models of inflammation: implications for a sex-related therapy
Antonietta Rossi
- 15.00** Early life stress & brain reward system: the modulating role of sex
Liana Fattore
- 15.15** Sex-dependent differences in the pharmaco-toxicological effects of NPS
Matteo Marti
- 15.30** The Sex of fetus and infants impacts on pharmacological response
Ilaria Campesi
- 15.45** Discussion "Sex-bias in preclinical research"
Vincenzo Cuomo, Liana Fattore

MASSALIA II

09.30-11.00

ROUND TABLE

Population medicine in chronic diseases: cardiovascular pathologies

Chairperson: **Alberico Catapano**

Participants: **Americo Cicchetti, Anna Lisa Mandorino, Walter Marrocco, Graziano Onder**

11.00-11.30

SPECIAL LECTURE:

Introduced by **Achille Caputi**

Acetylsalicylic Acid 1897-2022: New Avenues for Research

Carlo Patrono (Roma)

15.00-16.30

SYMPOSIUM

Therapeutic perspectives in chronic heart failure: clinical and experimental aspects

Chairpersons: **Elisabetta Cerbai, Francesco Rossi**

15.00

ESC new guidelines on heart failure: news and clinical impact

Massimo Volpe

15.15

Advanced therapy medicinal products for heart failure: from stem cells to Non-Coding RNAs

Daniele Torella

15.30

Cardiolipotoxicity and heart failure: molecular mechanisms and therapeutic strategies

Giuseppe Danilo Norata

15.45

Women's heart and research on aging: when is too late?

Konrad Urbanek

16.00

Hallmarks of IL-6 effects on cardiomyocytes: combined molecular and electrophysiological studies

Annunziata Laurino

16.15

Discussion "Therapeutic perspectives in chronic heart failure: clinical and experimental aspects"

Elisabetta Cerbai, Francesco Rossi

16.30-17.30

SYMPOSIUM

Gene silencing strategies in dyslipidemias

Chairpersons: **Alberico Catapano, Francesco Rossi**

16.30

PCSK9 silencing and LDL-C reduction

Maurizio Averna

16.50

Apo(a): new frontiers of therapy

Laura Calabresi

17.10

Effectiveness of ANGPTL3 gene silencing in Homozygous familial hypercholesterolemia

Marcello Arca

MASSALIA II

17.30-18.30

JOINT SYMPOSIUM SIF-SISA

Treatment of hypertriglyceridemias

Chairpersons: **Marcello Arca, Giuseppe Danilo Norata**

17.30

Triglycerides and cardiovascular risk: which evidence?

Marcello Arca

17.50

Update on the efficacy of Omega 3 fatty acids

Alberico Catapano

18.10

ApoC-III as a target in severe hypertriglyceridemias

Maurizio Averna

MASSALIA II

08.30-10.00

SYMPOSIUM

New perspectives in microbiota and gut-brain axis

Chairpersons: **Giuseppe Esposito, Matteo Fornai**

- 08.30** Microbiota-gut-brain axis in CNS disorders
Loris Lopetuso
- 08.45** Next generation probiotics and their impact on gut-brain axis
Marcella Pesce
- 09.00** Dysfunctional gut-brain axis:
pathogenic implications and nutraceutical approach
Giuseppina Mattace Raso
- 09.15** Inflammasome at crossroads at microbiota-gut-brain axis
Carolina Pellegrini
- 09.30** Enteric glia as bridging element connecting gut and brain:
pathophysiological and pharmacological implications
Luisa Seguela
- 09.45** Discussion "New perspectives in microbiota and gut-brain axis"
Giuseppe Esposito, Matteo Fornai

10.00-11.30

SYMPOSIUM

Brain-gut axis as a key target for the treatment of stress-related diseases

Chairpersons: **Silvia Alboni, Annamaria Cattaneo**

- 10.00** Altered gut microbiota composition and traumatic stress susceptibility:
new insights into the pathophysiology of PTSD
Sebastiano Alfio Torrisi
- 10.20** A healthy diet prevents stress-induced maladaptive behaviours
and gut microbiota changes
Maria Beatrice Passani
- 10.40** Stress early in life and long-term alterations in the inflammatory system and in the gut
microbiome composition: how antidepressants can play a role?
Annamaria Cattaneo
- 11.00** Role of local, intestinal, and systemic inflammation in the comorbidity between anxiety,
depression, and metabolic syndrome: results from a cross-sectional study
Silvia Alboni
- 11.20** Discussion "Brain-gut axis as a key target for the treatment of stress-related
diseases"
Silvia Alboni, Annamaria Cattaneo

MASSALIA II

15.00-16.00

SYMPOSIUM

Neurobiology of stress-related neuropsychiatric disorders: mechanisms of vulnerability and therapeutic strategies

Chairpersons: **Francesca Calabrese, Fabio Tascadda**

15.00

Vulnerability and resilience to stress exposure: focus on mitochondrial function
Francesca Calabrese

15.20

Gender modulates the long-term sequelae of adolescent neuroinflammation
Cristina Benatti

15.40

Physiopathology and pharmacology of post-stroke depression: from preclinical evidence to patients' treatment
Federica Ferrari

16.00-17.30

SYMPOSIUM "GIANCARLO PEPEU"

Cognitive disfunctions in neuropsychiatric disorders: mechanisms and therapeutic challenges

Chairpersons: **Filippo Drago, Gian Marco Leggio**

16.00

Neural circuits of emotion discrimination
Francesco Papaleo

16.15

Sex differences in dysbindin related cognitive disfunctions of schizophrenia
Gian Marco Leggio

16.30

Integrating endocannabinoids into the neurobiology and treatment of post traumatic stress disorder
Patrizia Campolongo

16.45

A dissection of neural circuits underlying social decision-making
Diego Scheggia

17.00

Stratification of schizophrenia based on clinical, cognitive and neuroimaging features
Giuseppe Blasi

17.15

Discussion "Cognitive dysfunctions in neuropsychiatric disorders: mechanisms and therapeutic challenges"
Filippo Drago, Gian Marco Leggio

MASSALIA II

09.00-10.00

SYMPOSIUM

New hopes for the therapy of amyotrophic lateral sclerosis,
from preclinical to clinical studies

Chairpersons: **Giambattista Bonanno, Sabata Pierno**

- 09.00** Genetic characterization of Amyotrophic Lateral Sclerosis and new therapeutic approaches
Adriano Chiò
- 09.15** The mGlu5 receptor negative allosteric modulator CTEP improves the ALS disease course in an *in-vivo* pre-clinical study
Marco Milanese
- 09.30** Amyotrophic Lateral Sclerosis and pharmacological approaches in preclinical models: focus on skeletal muscle
Giulia Maria Camerino
- 09.45** The role of technological tools in deciphering ALS and supporting clinical trials
Christian Lunetta

10.00-11.15

SYMPOSIUM

Circulating Extracellular Vesicles: cellular mediators,
biomarkers and therapeutic tools

Chairpersons: **Salvatore Cuzzocrea, Elena Tremoli**

- 10.00** Diagnostic and therapeutic potential of EVs in inflammatory arthritis
Mauro Perretti
- 10.15** Extracellular vesicles as diagnostic and prognostic biomarkers in cardiovascular diseases
Marina Camera
- 10.30** Alterations of extracellular vesicles in sporadic and genetic dementias
Luisa Benussi
- 10.45** Personalized management of cancer patients with the exosomes-interfering strategy
Paolo Ciana
- 11.00** Exosome membrane for targeting nanovectors for drug delivery
Luisa De Cola

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NON ECM**



**LEPTIS MAGNA
PLENARY SESSION**

16.00-17.00

OPENING CEREMONY

Silvio Brusaferro, Annalisa Capuano, Giuseppe Cirino, Emilio Clementi, Giorgio Racagni, Giovanni Rezza

17.00-17.45

OPENING PLENARY LECTURE

Introduced by **Giorgio Racagni**

Science and politics: to each his own, in the interest of citizens
Elena Cattaneo

17.45-19.15

PLENARY ROUND TABLE

Introduced by **Enrico Coscioni, Giorgio Racagni**

PNRR and drug policies in support of the National Health Care System

Participants: **Arturo Cavaliere, Claudio Cricelli, Nello Martini, Francesco Saverio Mennini**

SALA MYSALA

14.00-16.00

SYMPOSIUM

Biomarkers for optimization of pharmacotherapy:
focus on immune-mediated diseases

Chairpersons: **Matteo Fornai, Gabriele Stocco**

- 14.00** Pharmacoeugenetics in adult inflammatory bowel disease
Elisabetta Bigagli
- 14.20** Pharmacogenetics in pediatric inflammatory bowel disease
Marianna Lucafò
- 14.40** Biomarkers in renal transplant: focus on omics approaches
Gianluigi Zaza
- 15.00** Concept therapy in pediatric patients
Andrea Taddio
- 15.20** Cytokines as biomarkers in immune mediated disease
Matteo Fornai
- 15.40** Development of biomarkers of pharmacological relevance: the regulatory perspective
Viviana Giannuzzi

LEPTIS MAGNA

08.30-10.00

SYMPOSIUM

New options for understanding and treating chronic pain

Chairpersons: **Livio Luongo, Romina Nassini**

08.30

Chemotherapy induced painful neuropathy:
from neurotoxicity to mood alterations

Silvia Franchi

08.45

The role of Schwann cell CGRP receptor in migraine pain

Francesco De Logu

09.00

Chronic pain and alcohol use disorder association: neurochemical correlates

Patrizia Romualdi

09.15

C5aR1 inhibition as a new potential therapeutic target for the prevention of
chemotherapy-induced peripheral neuropathy

Serena Boccella

09.30

Targeting the interface between the microbiota and the gut as a therapeutic approach
to visceral pain

Elena Lucarini

10.00-11.30

SPECIAL LECTURE

10.00

Introduced by **Giorgio Racagni**

Real World Evidence in support of the implementation of mission 6 of PNRR

Nello Martini (Rome)

10.30

ROUND TABLE

Real World Evidence in support of the implementation of mission 6 of PNRR: the role
of scientific societies in the national plan of study and research

Chairpersons: **Nello Martini, Giorgio Racagni**

Participants: **Annalisa Capuano, Patrizia Popoli, Pierluigi Russo**

**LEPTIS MAGNA
PLENARY SESSION**

11.45-12.15

PLENARY LECTURE

Introduced by **Enrico Mini**

**Personalised cancer medicine: design of chemical probes and drugs
Paul Workman (UK)**

12.15-13.45

PLENARY ROUND TABLE

What is the role of the future pharmacology and medicine for the Personalized Health-Care (PHC)?

Chairpersons: **Mauro Biffoni, Romano Danesi**

Participants: **Gianni Amunni, Dario Manfellotto, Paolo Marchetti, Nello Martini,
Walter Marrocco**

LEPTIS MAGNA

15.00-16.30

ROUND TABLE

PNRR: where are we going? The partnership in support to the Sanitary System

Chairperson: **Giuseppe Cirino**

Participants: **Americo Cicchetti, Enrico Desideri, Domenico Mantoan, Francesca Patarnello, Giuseppe Pompilio**

16.30-18.00

SYMPOSIUM

Pharmacological strategies for selective targeting in cancer treatment

Chairpersons: **Romano Danesi, Enrico Mini**

16.30

Targeting of oncogenic signaling pathways as a current paradigm for cancer treatment
Alberta Bergamo

16.45

Homologous recombination deficiencies as therapeutic targets in oncology:
BRCA and beyond
Grazia Graziani

17.00

EZH2 inhibitors for cancer therapy: mechanisms of action and determinants of resistance
Nadia Zaffaroni

17.15

Targeting the CD73-adenosine pathway in cancer
Silvana Morello

17.30

Intrinsic and acquired tumor resistance in the era of targeted agents
Marzia Del Re

17.45

Aspirin for the Prevention and Treatment of Cancer: Mechanism(s) of action
Paola Patrignani

MASSALIA I

08.30-09.45

SYMPOSIUM

Emerging therapeutic concepts and drugs in cancer therapy

Chairpersons: **Giorgio Minotti, Giuseppe Nocentini**

08.30

Role of immunotherapy as an increasingly broad-spectrum cancer therapy
Giampaolo Bianchini

08.45

Optimizing efficacy of cancer immunotherapy
Chiara Colarusso

09.00

Pharmacokinetic issues in cancer immunotherapy:
does dose of MoAbs make matter?
Antonello Di Paolo

09.15

Evaluating and optimizing toxicity of cancer immunotherapy
Francesco Sabbatino

09.30

Bispecific monoclonal antibodies
Pier Luigi Zinzani

MASSALIA I

09.50-10.20

LECTURE

Introduced by **Romano Danesi**

Novel immunotherapies in multiple myeloma
Michele Cavo

10.25-10.55

LECTURE

Sponsored by **MSD**

Immunotherapy of cancer - What we know and what we can still achieve:
future perspectives
Romano Danesi

11.00-11.30

LECTURE

Introduced by **Mauro Biffoni**

The evolution of early stage non-small-cell lung cancer treatment and the new role of
immunotherapy
Filippo De Braud, Giulia Veronesi

15.00-16.30

ROUND TABLE

New horizons in cancer pharmacology and therapeutics. Toward innovative research
paths in Italy

Chairpersons: **Giorgio Cantelli Forti, Carlo Riccardi**

Participants: **Francesco Buccisano, Gennaro Ciliberto, Gabriella Fontanini, Enrico Mini,
Nicola Normanno, Nicola Silvestris, Marco Zibellini**

BAALBEK

09.30-10.00

LECTURE

Sponsored by SIFI

**Complexity in developing an orphan drug: the case study of Polihexanide
Filippo Drago**

10.00-11.30

ROUND TABLE

Developing therapies for rare pediatric diseases: new rules and tools

Chairpersons: **Annamaria De Luca, Gianluca Trifirò, Gabriele Stocco**

Speakers: **Paolo Bettica, Elisabetta Bigagli, Adriana Ceci, Carmen Ferrajolo, Armando
Magrelli, Francesca Rocchi, Annalisa Scopinaro**

BAALBEK

15.00-17.00

SYMPOSIUM

Sponsored by Alexion

New therapeutic approaches in rare diseases

Chairpersons: **Nicoletta Carbone, Giuseppe Limongelli**

15.00

Introduction

Chairperson: **Nicoletta Carbone**

Speaker: **Giuseppe Limongelli**

15.15

Neurology Session

Chairperson: **Giuseppe Limongelli, Gianluca Trifirò**

15.15

C5-inhibition: central paradigm in gMG

Renato Mantegazza

15.35

NMOSD: neurological disease complement mediated

Marco Capobianco

15.55

PNH Session

Chairpersons: **Annamaria De Luca, Simona Sica**

15.55

Ravulizumab: a new C5 inhibitor in PNH treatment which is already a reality

Antonio De Vivo

16.15

aHUS Session

Chairpersons: **Simona Sica, Gianluca Trifirò**

16.15

Eculizumab in aHUS: role of systemic complement pathway inhibition in the context of rare disease

Domenico Santoro

16.35

NF1 Session

Chairpersons: **Annamaria De Luca, Andrea Pession**

16.35

Neurofibromatosis type 1: from a genic mutation to a complex syndrom

Chiara Leoni

16:55

Conclusions

Chairperson: **Nicoletta Carbone**

Speaker: **Giuseppe Limongelli**

BAALBEK

17.00-18.20

SYMPOSIUM

From rare to common diseases: a continuous path for the development of novel therapeutics

Chairpersons: **Antonella De Angelis, Antonella Liantonio**

17.00

The uromodulin gene shows a continuum of genetic risk from rare to common kidney disease

Luca Rampoldi

17.20

SOCE-pathies: a false rare?

Elena Conte

17.40

Transulfuration pathway from common to rare diseases: a new potential therapeutic target

Maria Rosaria Bucci

18.00

Rare or not: The value of patient registries

Salvatore Crisafulli

TARRAGONA

09.00-10.00

SYMPOSIUM

Immune dysregulation in cardiovascular disease - from novel mechanisms to therapeutic targeting

Chairpersons: **Carlo Riccardi, Francesco Rossi**

09.00

Immunometabolism and cardiovascular diseases
Giuseppe Danilo Norata

09.20

Neuroimmune interactions in cardiovascular diseases
Giuseppe Lembo

09.40

Mechanisms of immune dysregulation in atherosclerosis
Pasquale Maffia

10.00-10.30

SPECIAL LECTURE

Introduced by **Giuseppe Cirino**

Resolution (of inflammation): women do it better

Amrita Ahluwalia

10.30-11.30

SYMPOSIUM

Immunometabolism as an emergent therapeutic target in autoimmunity

Chairpersons: **Francesca Fallarino, Simona Ronchetti**

10.30

The cross-road between macrophages and dendritic cells: from immunometabolism to single cell fate
Vincenzo Bronte

10.50

Immunometabolism in autoimmune diseases
Giuseppe Matarese

11.10

DCs go social: Tryptophan metabolism, a language to communicate tolerance
Francesca Fallarino

TARRAGONA

15.00-15.30

LECTURE

Sponsored by Sanofi

*Introduced by **Giorgio Racagni***

Type 2 inflammation: overview and role of Dupilumab in current and future indications
Eustachio Nettis

15.30-16.45

SYMPOSIUM

Time to implement pharmacogenetic test in the clinical practice:
a public health opportunity

*Chairpersons: **Sabrina Angelini, Erika Cecchin***

15.30

Evaluation of the utility and cost-effectiveness of pharmacogenetic testing based on CYP2D6 e CYP2C19 profiling in antidepressants treatment in Sardinia
Alessio Squassina

15.45

The role of pharmacogenetics in the stewardship of infectious diseases
Valeria Conti

16.00

Implementation of an integrated pharmacogenetic approach to predict drug exposure and toxicity in oncology
Erika Cecchin

16.15

Implementation of pharmacogenetics in pediatric patients
Gabriele Stocco

16.30

Pharmacogenetics beyond genetics: a miRNA signature predicts response to growth hormone treatment
Sabrina Angelini

17.00-18.00

SIF-ISoP-SIMeF JOINT SYMPOSIUM

Big data and artificial intelligence in Pharmacovigilance

*Chairpersons: **Gianluca Trifirò, Marco Tuccori***

17.00

Big data, artificial intelligence and drugs: where do we stand?
Luca Pani

17.15

The data analysis and real world interrogation Network (DARWIN EU®):
game changing opportunity in Europe
Peter Rijnbeek

17.30

Overcoming barriers for widespread adoption of automation in Pharmacovigilance
Andrew Bate

17.45

PV activities and Digital Media: the industry perspective
Gian Nicola Castiglione

PERGAMO

08.30-10.30

SYMPOSIUM

Patterns of patients' differentiation in respiratory diseases

Chairpersons: **Bruno D'Agostino, Luca Gallelli**

08.30

Phenotyping of severe asthma
Paolo Montuschi

08.50

Changes in gene expression profile of LOXs in patients with respiratory allergy
Davida Mirra

09.10

Airway smooth muscle dysfunction in asthma beyond contraction
Ida Cerqua

Chairpersons: **Paolo Montuschi, Fiorentina Roviezzo**

09.30

Immune checkpoint in COPD and lung cancer
Giuseppe Spaziano

09.50

Gender differentiation in patients with COPD and severe asthma
Lucia Muraca

10.10

The lesson from COVID-19 in the management of respiratory diseases
Alessandro Casarella

PERGAMO

10.30-11.30

SIF-SITOX ROUND TABLE

Efficacy and safety of nutraceutical products

Chairpersons: **Orazio Cantoni, Giuseppe Cirino**

Participants: **Giacchino Calapai, Corrado Lodovico Galli, Carla Ghelardini, Marinella Trovato**

15.00-17.00

SYMPOSIUM

Novel mechanisms, atypical drugs and cell-based therapies for the treatment of inflammatory and autoimmune diseases

Chairpersons: **Stefano Bruscoli, Emanuela Esposito**

15.00

Novel insight in Inflammation and the link to Cardio-Cerebrovascular Diseases
Fausto Chiazza

15.20

NAMPT and Calcineurin: key players and novel pharmacological targets in inflammatory disorders
Armando Genazzani

15.40

Anti-GITR antibodies and GITR-positive Treg cells in the modulation of inflammatory and autoimmune diseases
Giuseppe Nocentini

16.00

On and off-targets of tamoxifen in inflammation
Elisabetta Vegeto

16.20

The immunomodulating function of vascular endothelium: sexual dimorphism and pharmacological targeting
Andrea Cignarella

16.40

Engineering polymeric nanoparticles to enhance drug potency
TBD

PERGAMO

17.00-19.00

SYMPOSIUM

Sex and gender inequality in pharmacology: raising awareness and motivating change

*Chairpersons: **Elena Ortona, Marina Ziche***

- 17.00** Which options for reducing gender health disparity in 2022?
Luca Gallelli
- 17.15** Gender-specific intervention strategies in the control of cardiovascular risk
Andrea Cignarella
- 17.30** Sex and gender therapeutic drug monitoring: from benchside to community
Silvia De Francia
- 17.45** Do women have more adverse drug reactions? Experience of Regional Centre of Pharmacovigilance
Liberata Sportiello
- 18.00** Gender differences in vaccine therapy
Simona Anticoli
- 18.15** First line drug utilization and survival of patients with non-resectable NSCLC: a cohort study with gender perspective
Andrea Spini
- 18.30** Gender difference in the use, abuse and dependence of BDZ
Rebecca Casari

MYSALA

08.30-10.00

SIF-AIE JOINT SYMPOSIUM

How to deal with polypharmacy? From quality of care indicators to deprescribing

Chairpersons: **Ursula Kirchmayer, Viviana Ruggieri, Gianluca Trifirò**

08.30

The challenges of the chronic diseases management in Italy

Nello Martini

08.45

The Italian guideline on polypharmacy and comorbidity management

Graziano Onder

09.00

Anti-hypertensive drug deprescribing in older people: a systematic review

Salvatore Crisafulli

09.15

Quality of care indicators in nursing home: Italian experience

Elisabetta Poluzzi

09.30

Quality of care in general practice: how to improve prescribing behavior?

Giampiero Mazzaglia*

09.45

How to assess deprescribing in routine care? Potential and limitations of claims databases

Giovanni Corrao

10.00-10.30

LECTURE

Sponsored by IDORSIA

Orexin: a new target for insomnia treatment

Luigi Ferini Strambi, Ferdinando Nicoletti

10.30-11.15

SYMPOSIUM

Focus On histamine and sleep disorders

Speakers: **Maria Beatrice Passani, Luigi Ferini Strambi**

MYSALA

15.00-16.20

SYMPOSIUM

Treatment-Resistant Depression: the role of fast-acting antidepressants

Chairpersons: **Marco Andrea Riva, Luca Pani**

15.00

Neurobiology of Treatment-Resistant depression:
from stress response to neuronal plasticity

Marco Andrea Riva

15.20

Fast-acting antidepressants in Treatment-Resistant depression:
from ketamine to esketamine

Filippo Caraci

15.40

Novel therapeutic strategies in treatment resistant depression: the role of esketamine

Bernardo Maria Dell'Oso

16.00

Future perspectives: the pipeline of rapid acting antidepressants

Laura Musazzi

16.30-18.30

SYMPOSIUM

Impact of early life experiences on psychiatric conditions: accounting for sex differences

Chairpersons: **Roberto Ciccocioppo, Viviana Trezza**

16.30

The impact of gender on brain maturation in major psychiatric disorders

Paolo Brambilla

16.50

Sex-dependent dysregulation of the glutamate homeostasis in rats exposed to negative
early-life experiences

Lucia Caffino

17.10

The endocannabinoid system and early social experiences: sex and age-related
molecular alterations and behavioral correlates

Patrizia Romualdi

17.30

Oxidative stress as a potential therapeutic target in neurodevelopmental disorders:
preclinical evidence and sex differences

Maria Bove

17.50

Sex-dependent impact of prenatal valproate on neurodevelopmental disorders:
possible strategies for intervention

Antonia Manduca

18.10

Early life maternal separation enhances stress-induced alcohol abuse vulnerability in
male and female msP rats

Esi Domi

LEPTIS MAGNA

08.30-09.50

SYMPOSIUM

The gliflozin lesson: where will we end up?

Chairperson: **Annamaria De Luca**

08.30

SGLT2 inhibitors in ischemic heart disease: do they work in non-diabetic patients?

Giuseppe Paolisso

08.50

SGLT2 inhibition beyond diabetes: from heart to kidney

Antonella De Angelis

09.10

Direct effects of SGLT2 inhibitors on cardiac myocytes: mechanisms and perspectives

Raffaele Coppini

09.30

Gliflozins and heart failure: from preclinical studies to artificial intelligence analysis of clinical database

Antonella Liantonio

10.00-11.30

SIF-EGUALIA ROUND TABLE

Medicines reconciliation: generic medicine's role in chronic diseases at community health level

Chairpersons: **Enrique Häusermann, Giorgio Racagni, Maurizio Tagliatela**

Speakers: **Amelia Filippelli, Marco Pistis, Maurizio Tagliatela, Walter Marrocco, Giuseppe Traversa**

**LEPTIS MAGNA
PLENARY SESSION**

11.45-12.15

PLENARY LECTURE

Introduced by **Giuseppe Cirino**
siRNA: ready for prime-time
David Webb (UK)

12.15-13.45

PLENARY ROUND TABLE

Scientific value and appropriate use of medicine: the role of SIF

Chairpersons: **Giuseppe Cirino, Salvatore Cuzzocrea**

Participants: **Amelia Filippelli, Armando Genazzani, Giuseppe Ippolito, Patrizia Popoli, Giorgio Racagni**

LEPTIS MAGNA

15.00-15.30

LECTURE

Sponsored by Biogen

Antisense oligonucleotides (ASOs): The evolution of a new therapeutic paradigm

Speakers: Annamaria De Luca, Valeria Sansone

15.30-17.30

SYMPOSIUM

Repurposing/repositioning of drugs to cover unmet pediatric therapeutic needs

Chairpersons: Adriana Ceci, Alessandro Mugelli

15.30

In-patent and off-patent drugs to be repurposed for pediatric use
Lucia Ruggieri

15.50

In silico profiling to identify and develop new pediatric therapeutic indications for existing drugs
Oscar Della Pasqua

16.10

The regulatory framework to repurpose medicines for pediatric use
Lucia Ruggieri

16.30

Biomarkers of platelet activation and inhibition: a paradigm for repurposing aspirin dosing or indications?
Bianca Rocca

16.50

Repurposing of drugs in pediatric inflammatory bowel disease: insights on thalidomide mechanism of action
Marianna Lucafo

17.10

Diazoxide repurposing for treating Friedreich ataxia
Nunzio Denora

17.30-18.30

SYMPOSIUM

Didactic aspects under the aegis of the CNFU

Chairpersons: Giuseppe Cirino, Maurizio Taglialatela

17.30

Italian National University Council (Consiglio Universitario Nazionale, CUN)
Paolo Vincenzo Pedone

17.50

Qualifying degree in pharmacy
Giuseppe Cirino

18.10

Postgraduate Schools in Pharmacology and Toxicology
Maurizio Taglialatela

MASSALIA I

09.30-11.00

ROUND TABLE

The value of personalized therapy: CAR-T today

Chairperson: **Romano Danesi**

Participants: **Americo Cicchetti, Paola Coco, Maurizio Martelli**

11.00-11.30

LECTURE

Sponsored by Roche

Introduced by **Teresita Mazzei**

New Treatment solutions to address the unmet need of patients with previously untreated diffuse large B cell lymphoma (DLBCL)

Monica Balzarotti

15.00-16.00

SYMPOSIUM

Innovation in the treatment of hemophilia: a change of paradigm

15.00

Present and future of hemophilia therapy

Giancarlo Castaman

15.30

Innovation in hemophilia: focus on pharmacological aspects

Paolo Simioni

16.00-17.00

SYMPOSIUM

Sponsored by Daiichi Sankyo

Antibody-drug conjugates in metastatic breast cancer: from clinical pharmacology considerations to patient care

16.00

Opening remarks, introduction and learning objectives

Daniele Santini

16.10

Clinical Pharmacology of Antibody-Drug Conjugates in metastatic breast cancer

Romano Danesi

16.25

The new era of ADC in Metastatic Breast Cancer: treatment options and clinical data

Pierfranco Conte

16.40

Discussion "Antibody-drug conjugates in metastatic breast cancer: from clinical pharmacology considerations to patient care"

Romano Danesi, Daniele Santini

16.50

Closing remarks and take-home messages

Daniele Santini

17.00-18.30

ROUND TABLE

Animal studies on Substance Use Disorders in Italy: focus on scientific relevance, regulation laws and alternative methods

Chairpersons: **Marco Pistis, Patrizia Romualdi**

Participants: **Alessandra Bitto, Silvia Dotti, Giuliano Grignaschi, Angela Ianaro, Micaela Morelli**

BAALBEK

08.30-10.30

SYMPOSIUM

New challenges in Alzheimer's Disease: what lesson can we take from the past?

Chairpersons: **Elena Marcello, Carmela Matrone**

08.30

New perspectives on conformational recombinant antibodies in Alzheimer's Disease research

Giovanni Meli

08.45

The neuronal DNA replication as a basis for translation into new methods of neuroprotection in Alzheimer's Disease

Agata Copani

09.00

Non-invasive brain stimulation in Alzheimer's Disease: from biomarkers to novel therapeutics

Giacomo Koch

09.15

Impairment in circadian glymphatic clearance as driver of neurodegeneration

Cristina Lanni

09.30

Targeting Alzheimer's Disease progression through c-Abl inhibition

Marcello D'Amelio

09.45

The way back: CR13626, a novel oral brain penetrant multikinase inhibitor: from Alzheimer's Disease to glioblastoma

Gianfranco Caselli

10.00

Neuroprotective potential of choline alfoscerate on amyloid-beta toxicity in an *in vitro* and murine animal model of Alzheimer's Disease

Giuseppina Cantarella

10.30-11.00

SPECIAL LECTURE "RODOLFO PAOLETTI"

Introduced by **Nicoletta Brunello**

Exploring the synapse: novel insights into diagnosis and treatment of Alzheimer's Disease

Monica Diluca

BAALBEK

11.00-11.30

LECTURE

S1PR modulators in multiple sclerosis management

Speakers: **Annalisa Capuano, Serena Ruggieri**

15.00-16.00

ROUND TABLE

The care of multiple sclerosis patient: the right therapy at the right time

Participants: **Mario Alberto Battaglia, Annalisa Capuano, Francesco Saverio Mennini**

16.00-17.00

SYMPOSIUM

The BBB as an additional target for the treatment of brain disorders

Chairpersons: **Michela Matteoli, Maria Angela Sortino**

16.00

Crosstalk among various BBB cellular components contributes to drug effects at the CNS

Simona Federica Spampinato

16.20

A BBB *in vitro* model for drug screening of BBB permeability and immune cell trafficking

Eliana Lauranzano

16.40

BBB-on-a-chip devices for brain modelling and drug screening: state-of-the-art and perspectives

Lucia Boeri

17.00-18.15

SYMPOSIUM

An Inflammation-Centric view of neurodegenerative diseases

Chairpersons: **Livio Luongo, Morena Zusso**

17.00

Role of Fibroblast Growth Factor Receptors on modulation of inflammatory pathway in neurodegenerative and traumatic diseases

Michela Campolo

17.15

The role of glial reactivity in neurodegenerative disorders: from cellular modifications to possible therapeutic approaches

Caterina Scuderi

17.30

Neuroinflammatory pathways as potential pharmacological targets in Huntington's Disease

Andrea Tarozzi

17.45

Microglia as therapeutic targets in neurodegenerative disorders

Morena Zusso

18.00

Autophagy in neurodegenerative diseases: what do we know about glaucoma?

Rossella Russo

TARRAGONA

09.00-10.15

SYMPOSIUM

Cannabis, between therapy and toxicity: the bad and the good for the brain

Chairpersons: **Carla Cannizzaro, Paola Fadda**

09.00

In utero THC shifts endocannabinoid signaling and synaptic plasticity onto dopamine neurons

Miriam Melis

09.15

Prenatal THC exposure impinges on offspring's cognitive processing enduringly: evidence of CBD selective rescue potential

Anna Brancato

09.30

Unveiling adolescent vulnerability to chronic exposure to CBD and THC mixtures

Erica Zamberletti

09.45

THC during adolescence in a maternal immune activation model of schizophrenia revealed a disrupted endocannabinoid signaling

Marco Pistis

10.00

Cannabis extracts and selected cannabinoids play differential roles in the mechanisms of neuronal death in models of ischemia and epilepsy *in vitro*

Elisa Landucci

10.30-11.30

ROUND TABLE

Real world data in a value based health system. The example of age-related macular degeneration

Age-related macular degeneration in Italy. Burden of disease and unmet need

Speakers: **Nello Martini, Giovanni Staurenghi**

Suggestions for reintroduction of value based and appropriate health assistance

Participants: **Renato Bernardini, Nello Martini, Giovanni Staurenghi**

TARRAGONA

15.00-16.00

SYMPOSIUM

Medical devices made of substances: scientific and regulatory aspects

Chairperson: **Giorgio Racagni**

15.00

Medical devices made of substances: the new paradigm

Maria Grazia Leone

15.20

The marketing authorisation of herbal medicinal products in Italy

Alessandro Assisi

15.40

Scientific aspects of medical devices made of substances

Carla Ghelardini

16.00-17.30

ROUND TABLE

Decentralized Clinical Trials

Chairpersons: **Luigi Magnani, Patrizia Popoli**

White Paper on Decentralized Clinical Trials

Gualberto Gussoni

The perspective of patients

Nicola Merlin

Governance of innovative drugs evaluation

Renato Bernardini

The perspective of clinicians

Filippo Pieralli

The perspective of clinical pharmacologists

Cristiano Chiamulera

The perspective of a Company

Marco Zibellini

The perspective of Digital Medicine Start-up

Massimo Beccaria

The perspective of Institutions

Sandra Petraglia

17.30-18.00

LECTURE

Sponsored by Beigene

HTA of chronic aspects in the lymphoproliferative diseases

Francesco Saverio Mennini

PERGAMO

10.00-11.15

SYMPOSIUM

Nutraceuticals and rare diseases: evidences and experimental approaches for a rational use

Chairpersons: **Annamaria De Luca, Angelo Antonio Izzo**

10.00

Rare patients and unmet medical and nutritional needs: the importance of an informed active role

Filippo Buccella

10.15

Motivation for use and safety of food supplements in rare diseases

Ilaria Ippoliti

10.30

Synbiotic supplementation in children and adolescents with cystic fibrosis

Eugenia Bruzzese

10.45

The role of nutraceutical supplementation in heart failure: a lesson for rare cardiomyopathies

Vincenzo Mollace

11.00

Nutraceuticals in Duchenne muscular dystrophy: toward a robust translational research

Paola Mantuano

15.00-15.30

LECTURE

Sponsored by Abbvie

SIF consensus update for botulinum toxin

Speaker: **Pierangelo Geppetti**

15.30-16.45

SYMPOSIUM

Nutraceuticals in pediatrics: efficacy and safety

Chairpersons: **Gioacchino Calapai, Patrizia Hrelia**

15.30

The role of probiotics and postbiotics in modulating the gut microbiome-immune system axis in the pediatric age

Roberto Berni Canani

15.45

Dietary supplements in the first 1000 days

Elvira Verduci

16.00

Dietary supplements and dietary modifications in the treatment of infant colics

Francesco Savino

16.15

Vitamin D in pediatric age: indications for a rational use

Giuseppe Saggese

16.30

Adverse events to dietary supplements in pediatrics

Francesca Menniti Ippolito

MYSALA

08.30-10.00

SYMPOSIUM

How to prevent and to treat COVID-19 in pediatrics

Chairpersons: **Annalisa Capuano, Armando Genazzani**

08.30

Overview of drug vaccines and state of art in pediatrics

Laura Fregonese

08.45

Clinical and therapeutic management of COVID19 in children

Giuseppe Indolfi

09.00

Pediatric vaccine surveillance: European perspective

Cosimo Zaccaria

09.15

Pediatric vaccine surveillance: Italian perspective

Concetta Rafaniello

09.30

Methodology on pediatric vaccine safety signal detection and validation

Carmen Ferrajolo

09.45

Clinical and therapeutic management of Multisystem inflammatory syndrome in children

Gabriele Simonini

10.00-10.30

LECTURE

Sponsored by Sanofi

Introduced by **Gianluca Trifirò**

Monoclonal Antibodies for the prevention of Respiratory Syncytial Virus in young children

Chiara Azzari

10.30-11.30

ROUND TABLE

Antimicrobial resistance

Chairpersons: **Giorgio Racagni, Francesco Scaglione**

Introduction: **Marco Falcone**

Participants: **Andrea Fontanella, Rosa Moscogiuri, Giorgio Racagni, Francesco Scaglione, Carlo Tascini, Marco Zibellini**

MYSALA

15.00-16.00

SYMPOSIUM

Sponsored by Eli Lilly

Type 2 Diabetes Mellitus: an evolving disease

15.00

Opening and introduction

Alfonso Bellia

15.10

Evolving diabetology: new landscapes and unmet needs

Paolo Di Bartolo

15.30

Evolving knowledge: type 2 diabetes mellitus pathophysiology revisited

Gian Paolo Fadini

15.50

Conclusions

Alfonso Bellia

16.00-18.00

SYMPOSIUM

Pharmacologic approaches for the treatment of eating disorders and obesity

Chairpersons: Carlo Cifani, Silvana Gaetani, Maria Vittoria Micioni Di Bonaventura

16.00

Neurobiology of Anorexia Nervosa in a preclinical animal model

Maria Scherma

16.20

Maladaptive neuroplasticity in Anorexia Nervosa: evidence from a preclinical model

Francesca Mottarlini

16.40

Structural organization of the brain in Anorexia Nervosa: longitudinal considerations and translational perspectives

Enrico Collantoni

17.00

Chemogenetic manipulation of histaminergic neurons regulates food intake

Gustavo Provensi

17.20

The oxytocinergic system as a possible target for the treatment of obesity and aberrant eating patterns

Adele Romano

17.40

New opportunities for therapeutic innovation in cardiometabolic diseases: from metaflammation targeting to drug repurposing

Massimo Collino

SPALATO

09.00-10.15

SYMPOSIUM

Detection and adverse effects of drugs in the environment

Chairpersons: **Sergio Caroli, Raffaella Sorrentino**

09.00

Direct and indirect effects of medicinal products on ecosystems

Anna Barra Caracciolo

09.15

Radio Ligand Therapy: the challenges of product logistic and waste treatment

Giorgia Calamari*

09.30

Risk assessment of veterinary drugs: between research and institutional activities

Mario Carere, Laura Mancini

09.45

Analytical approaches for the determination of medicinal products and their metabolites

Sergio Caroli

10.00

Environmental exposure to pharmaceuticals: the Venice lagoon as a case study

Antonio Marcomini

10.30-11.30

SYMPOSIUM

Sponsored by Galapagos

New frontiers in chronic inflammation treatments

Speaker: **Matteo Fornai, Marco Fornaro**

15.00-17.00

SYMPOSIUM

New Frontiers in Immunopharmacological Treatments

Chairpersons: **Pasquale Maffia, Ciriana Orabona, Carlo Riccardi**

15.00

Targeted therapies and biomarkers for personalized treatment of psoriasis

Paola Di Meglio

15.20

Distinct synovial tissue macrophage subsets regulate inflammation and remission in rheumatoid arthritis

Stefano Alivernini

15.40

Neural control of inflammation

Peder Olofsson

16.00

Novel approaches in immunotherapy of rheumatic diseases

Roberto Gerli

16.20

Neural stem cells in neurological disorders: from biology to treatment

Marco Bacigaluppi

16.40

Immunotherapy in the control of Type 1 diabetes

Dario Pitocco*

SPALATO

17.00-18.20

SYMPOSIUM

Non-neuronal cells as pharmacological target for novel therapies against pain and related symptoms

Chairpersons: **Cristina Lanni, Lorenzo Di Cesare Mannelli**

17.00

Novel insights on neuro-immune relationship in painful gastrointestinal diseases
Roberto De Giorgio

17.20

Modulation of the mastocyte-astrocyte cross-talk as a strategy against morphine tolerance
Laura Micheli

17.40

The gut-brain axis: misalignment of the circadian-regulated glymphatic flux in a model of visceral pain
Francesca Fagiani

18.00

Vitamin D deficiency induces chronic pain and microglial phenotypic changes in mice: role of N-acylethanolamines
Francesca Guida

LEPTIS MAGNA

08.30-10.00

SIF-EACPT JOINT SYMPOSIUM

COVID-19 vaccine safety: what have we learned?

Chairpersons: **Annalisa Capuano, Gianluca Trifirò**

08.30

Pharmacovigilance in the pandemic: EMA experience
Annalisa Capuano

08.45

Real world Effectiveness and safety of COVID19 vaccines: the Italian experience
Francesca Menniti Ippolito

09.00

Advanced methods for vaccine surveillance
Carmen Ferrajolo

09.15

Prospective monitoring of COVID-19 vaccine: the experience of "ilmiovaccino COVID19" collaborating group
Nicoletta Luxi

09.30

The experience of Regional Centre of Pharmacovigilance on COVID19 vaccine
Liberata Sportiello

09.45

Risk communication on vaccines during COVID-19 pandemic
Luca De Fiore

10.30-11.30

SYMPOSIUM

COVID-19 and the new paradigms of drug research

Chairpersons: **Giuseppe Nocentini, Gianni Sava**

10.30

Drug repurposing and COVID-19: the reasons for failures and successes
Alberta Bergamo

10.50

Antiviral approaches with small molecules
Gloria Ravagnini

11.10

Antiviral antibodies for COVID-19 prevention
Giuseppe Nocentini

**LEPTIS MAGNA
PLENARY SESSION**

11.45-12.15

PLENARY LECTURE

Introduced by **Monica Diluca**

The neurobiology of social behavior: implication for mental health
Camilla Bellone (Switzerland)

12.15-12.45

PLENARY SPECIAL LECTURE

Introduced by **Giorgio Racagni**

The future of pharmaceutical industry: perspectives
Marcello Cattani (Rome)

12.45-13.30

AWARDS AND GRANTS

SIF-FARMINDUSTRIA AWARDS

Introduced by **Marcello Cattani, Giuseppe Cirino, Giorgio Racagni,
Massimo Scaccabarozzi**

PAOLO PREZIOSI GRANTS

WORKING GROUP PHARMACOGNOSY AWARD

BEST ORAL COMMUNICATIONS AND BEST POSTERS AWARDS

MASSALIA I

10.00-11.15

SYMPOSIUM

State of the art and perspectives in cancer biomarkers research and application

*Chairpersons: **Giuseppe Toffoli, Marina Ziche***

10.00

State of the art and perspectives in cancer pharmacogenetics

Erika Cecchin

10.15

Newly discovered pharmacogenetic biomarkers in Non-Hodgkin's lymphoma for potential clinical use

Stefania Nobili

10.30

Therapeutic drug monitoring in oncology

Giorgio Minotti

10.45

Drug interactions and pharmacovigilance

Emanuel Raschi

11.00

Pharmacological strategies to personalize therapy in pediatric oncology

Raffaella Franca

BAALBEK

10.00-11.20

SYMPOSIUM

Novel targets in the treatment of chronic pain

Chairpersons: **Agata Copani, Ferdinando Nicoletti**

10.00

Dissecting the role of mGlu5 receptors in the pain neuraxis with aid of light-sensitive receptor ligands

Serena Notartomaso

10.20

Emerging role of Perineuronal Nets in nociceptive sensitization

Giada Mascio

10.40

Targeting epigenetic mechanisms in the treatment of neuropathic pain associated with Fabry's disease

Marco Caprini

11.00

Different roles of amygdala mGluR2 and mGluR3 in pain

Mariacristina Mazzitelli

TARRAGONA

10.00-11.00

SYMPOSIUM

Environmental factors during pregnancy and enhanced risk for mental illness

*Chairpersons: **Patrizia Campolongo, Marco Andrea Riva***

10.00

Modeling prenatal depression in mice: placental, behavioral and molecular consequences and the impact of antidepressant treatment

Juliet Richetto

10.15

Vulnerability and resilience to stress exposure during gestation: focus on adolescence

Veronica Begni

10.30

Antioxidants prevent long-term effects of prenatal exposure to a highfat-diet on anxiety and hippocampal inflammatory and plasticity genes in adolescent mice

Francesca Cirulli

10.45

Early life stress and synaptic plasticity: the modulating role of sex

Giuseppe Talani

PERGAMO

09.30-11.30

SYMPOSIUM

Natural products in the management of cognitive impairment and behavioral disorders: from bench to bedside

Chairpersons: **Giacinto Bagetta, Mario Dell'Agli**

09.30

Phytosomal preparations containing *Centella asiatica* L. and *Curcuma longa* L. influence cognitive performance through the modulation of BDNF signaling

Francesca Calabrese

09.50

Pain relief by local peripheral administration of Bergamot essential oil

Tsukasa Sakurada

10.10

2-pentadecil-oxazoline restores cognitive and social behaviour impairments in AD-like murine model

Rosmara Infantino

10.30

Anti-inflammatory properties of cannabidiol: from basic studies to clinical application in CNS diseases

Franca Marino

10.50

R&D of an essential oil in dementia: the case model of Bergamot

Damiana Scuteri

11.10

Cannabis medicinal preparations from bench to bedside: the experienced case from production to Real World Evidence

Barbara Pacchetti

MYSALA

10.00-11.30

SYMPOSIUM

Therapeutic Drug Monitoring (TDM) of anti-infective agents

*Chairperson: **Dario Cattaneo***

10.00

TDM of antibiotic drugs

Dario Cattaneo

10.15

TDM of antiviral drugs

Antonio D'Avolio

10.30

TDM of antifungal drugs

Francesco Scaglione

10.45

TDM as a tool to limit ADR and DDI induction by antibiotic drugs

Annalisa Capuano

11.00

TDM of long acting antibiotic drugs

Milo Gatti

11.15

TDM as a tool to limit bacterial resistance to antibiotic drugs

Antonello Di Paolo

41 CONGRESSO NAZIONALE della SOCIETÀ ITALIANA di FARMACOLOGIA

**IL VALORE SCIENTIFICO
e l'USO APPROPRIATO
del FARMACO**

**ORAL
COMMUNICATIONS**



LEPTIS MAGNA
NEUROPHARMACOLOGY 1

Chairpersons: **Filippo Caraci, Fabio Tascedda**

- 14:00-14:10** Sex-dimorphic impact of in-utero THC exposure on the executive cognitive processing: is the female offspring spared?
Castelli Valentina, Brancato Anna, Feo Salvatore, Plescia Fulvio, Lavanco Gianluca, Cannizzaro Carla
- 14:10-14:20** Prokineticin 2 is strongly increased in olfactory neurons of Parkinson's disease patients
Mattei Daniela, Schirinzi Tommaso, Vincenzi Martina, Mercuri Nicola B, Severini Cinzia, Lattanzi Roberto
- 14:20-14:30** Complement, a synaptic organizer at glutamate tripartite synapses in the cortex of mice suffering from experimental autoimmune encephalomyelitis: synaptic pruning and transmission derangements
Vallarino Giulia, Olivero Guendalina, Roggeri Alessandra, Lucarini Elena, Trebesova Hanna, Taddeucci Alice, Grilli Massimo, Di Cesare Mannelli Lorenzo, Ghelardini Carla, Pittaluga Anna
- 14:30-14:40** Overexpression of A2A Adenosine Receptors in cortex is mirrored in Platelets of Patients with Alzheimer's Disease
Gessi Stefania, Casetta Ilaria, Poloni Tino Emanuele, Medici Valentina, Cirrincione Alice, Varani Katia, Vincenzi Fabrizio, Borea Pier Andrea, Gragnaniello Daniela, Merighi Stefania
- 14:40-14:50** Exposure to chronic social stress leads to anxiety- and depressive-like behavioural and neurochemical alterations in rats
Dimonte Stefania, Schiavone Stefania, Tucci Paolo, Trabace Luigia
- 14:50-15:00** The neuroprotective effect of carnosine is mediated by insulin-degrading enzyme
Caruso Giuseppe, Distefano Alessia, Oliveri Valentina, Bellia Francesco, Sbardella Diego, Zingale Gabriele A., Caraci Filippo, Grasso Giuseppe
- 15:00-15:10** Involvement of metabotropic glutamate receptors in behavioural effects of bergamot essential oil
Rombolà Laura, Scuteri Damiana, Corasaniti Maria Tiziana, Bagetta Giacinto, Morrone Luigi Antonio
- 15:10-15:20** Long-lasting effects of attachment bond interference: investigating the role of Oxytocin
Mancini Camilla, Municchi Diana, Passeri Alice, Babicola Lucy, D'Addario Sebastian Luca, Di Segni Matteo, Cifani Carlo, Ventura Rossella
- 15:20-15:30** Seizure susceptibility to various chemoconvulsant stimuli in BTBR Mouse Model of Autism Spectrum Disorders
Tallarico Martina, Pisano Maria, Dardano Denise, Leo Antonio, Russo Emilio, Citraro Rita, De Sarro Giovambattista

ORAL COMMUNICATIONS

WEDNESDAY, NOVEMBER 16TH

15:30-15:40

Possible role of adrenergic α_2 and H3 histamine autoreceptors in the analgesic, antidepressant and anxiolytic effects of 2-pentadecyl-2-oxazoline in a neuropathic pain mice model

Ricciardi Flavia, Boccella Serena, Infantino Rosmara, Belardo Carmela, Iannotta Monica, Iannotti Fabio Arturo, Cristiano Claudia, Vitale Rosa Maria, Amodeo Pietro, Marabese Ida, de Novellis Vito, Paino Salvatore, Palazzo Enza, Guida Francesca, Calignano Antonio, Di Marzo Vincenzo, Maione Sabatino, Luongo Livio

15:40-15:50

Plasma and brain pharmacokinetic profile of cannabidiol in rats after subchronic treatment: a potential treatment for migraine?

Franco Valentina, Palmisani Michela, Greco Rosaria, Zanaboni Anna Maria, Marchiselli Roberto, Demartini Chiara, Francavilla Miriam, Pacchetti Barbara, Blandini Fabio, Tassorelli Cristina

15:50-16:00

Anaplastic lymphoma kinase receptor: possible involvement in anorexia nervosa

Dedoni Simona, Scherma Maria, Camoglio Chiara, Siddi Carlotta, Fadda Paola

MASSALIA I

CANCER PHARMACOLOGY 1

Chairpersons: **Sabrina Angelini, Alberta Bergamo**

- 14:00-14:10** HDL inhibit the proliferation of prostate cancer cells induced by LDL through the modulation of cholesterol content: role of ABCA1 and proteasome inhibition
Ossoli Alice, Cetti Federica, Ruscica Massimiliano, Parini Paolo, Pedrelli Matteo, Gomaschi Monica
- 14:10-14:20** Exploitation of the NAD rescue pathway as a new toxification route for cancer therapy
Buonvicino Daniela, Ranieri Giuseppe, Camaioni Emidio, Raffaelli Nadia, Chiarugi Alberto
- 14:20-14:30** Specific deletion of cyclooxygenase-1 (COX-1) in megakaryocyte/platelets reduces intestinal polyposis in Apc^{Min/+} mice
Bruno Annalisa, Tacconelli Stefania, Contursi Annalisa, Iezzi Manuela, Ballerini Patrizia, Patrignani Paola
- 14:30-14:40** Insights into anticancer sonodynamic activity of IR-780 in an *in vitro* three-dimensional model of pancreatic cancer
Federica Foglietta, Roberto Canaparo, Gianni Durando, Patrizia Panzanelli, Loredana Serpe
- 14:40-14:50** Extracellular Nicotinamide Phosphoribosyltransferase (eNAMPT) neutralization impairs TNBC burden, reducing cancer cell migration and T cell suppressive phenotype
Colombo Giorgia, Travelli Cristina, Sangaletti Sabina, Genazzani Armando A.
- 14:50-15:00** Ruxolitinib restores chemosensitivity in medulloblastoma resistant cells
Bortolozzi Roberta, Manfreda Lorenzo, Mariotto Elena, Rampazzo Elena, Miglioranza Paolo, Marchioro Chiara, Persano Luca, Viola Giampietro
- 15:00-15:10** Functional and pharmacological characterization of ClC chloride channels in human pancreatic ductal adenocarcinoma stem cells
Altamura Concetta, Saltarella Ilaria, Campanale Carmen, Laghetti Paola, Camerino Giulia Maria, Di Molfetta Daria, Greco Maria Raffaella, Cardone Rosa Angela, Desaphy Jean-François
- 15:10-15:20** Preclinical effects of progesterone as a new pharmacological tool in human adrenocortical carcinoma cell lines
Tamburello Mariangela, Abate Andrea, Rossini Elisa, Basnet Ram Manohar, Zizioli Daniela, Cosentini Deborah, Hantel Constanze, Grisanti Salvatore, Berruti Alfredo, Sigala Sandra
- 15:20-15:30** Autophagy inhibitors PIK-III and SAR405 sensitize resistant cancer cells to cisplatin treatment
Cocetta Veronica, Vianello Caterina, De Milito Angelo, Scorrano Luca, Giacomello Marta, Montopoli Monica

ORAL COMMUNICATIONS

15:30-15:40

mTOR pathway in glioblastoma: difference between inhibition of mTORC1 versus inhibition of both mTORC1 and 2

Pizzoferrato Michela, Ciotti Gabriella Maria Pia, Navarra Pierluigi, Lisi Lucia

15:40-15:50

Targeting PDGF-C to counteract melanoma invasiveness and resistance to BRAF inhibitors

Ceci Claudia, Ruffini Federica, Atzori Maria Grazia, Caporali Simona, Levati Lauretta, Bonmassar Laura, Antonini Cappellini Gian Carlo, D'Atri Stefania, Graziani Grazia, Lecal Pedro Miguel

15:50-16:00

Characterization of perillaldehyde as a new ferroptosis inducer with relevant clinical potential

Turrini Eleonora, Catanzaro Elena, Kerre Tessa, Sioen Simon, Baeyens Ans, Guerrini Alessandra, Abdi Bellau Mohamed Lamin, Krysko Dmitri V., Fimognari Carmela

BAALBEK

PHARMACOVIGILANCE, PHARMACOEPIDEMOLOGY,
PHARMACOECONOMY AND REAL WORLD EVIDENCE 1

Chairpersons: **Ylenia Ingrasciotta, Concetta Rafaniello**

- 14:00-14:10** Patients with heart failure eligible to a SGLT2 inhibitor treatment: prevalence, characteristics, and costs from a combination of administrative healthcare and primary care databases
Piccinni Carlo, Dondi Letizia, Ronconi Giulia, Calabria Silvia, Pedrini Antonella, Lapi Francesco, Marconi Ettore, Bianchini Elisa, Parretti Damiano, Medea Gerardo, Cricelli Claudio, Martini Nello, Maggioni Aldo Pietro
- 14:10-14:20** Atrial fibrillation and use of new oral anticoagulants in general practice: a focus on inappropriate drugs prescriptions
Rottura Michelangelo, Molonia Antonino, Drago Selene Francesca Anna, Orlando Luana, Gigliotti De Fazio Marianna, Marino Sebastiano, Scoglio Riccardo, Squadrito Francesco, Arcoraci Vincenzo, Imbalzano Egidio
- 14:20-14:30** Prescription appropriateness of antithrombotic drugs for prophylaxis of venous thromboembolism in hospitalized multimorbid older patients
Franchi Carlotta, Rossio Raffaella, Mandelli Sara, Ardoino Ilaria, Nobili Alessandro, Peyvandi Flora, Mannucci Pier Mannuccio
- 14:30-14:40** Polypharmacy determinants of torsade de pointes risk in older adults with cognitive impairment
Manes Annalaura, Pistorio Sabrina, Dodani Loreta, Paoletti Fabiola, Carbone Giovanni, Tagliatela Maurizio, Femminella Grazia Daniela, Cataldi Mauro
- 14:40-14:50** European pharmacovigilance analysis of cardiac arrhythmias events with Immune Checkpoint Inhibitors (ICIs)
Mascolo Annamaria, Sportiello Liberata, Rafaniello Concetta, Scisciola Lucia, Barbieri Mighelangelo, Rossi Francesco, Paolisso Giuseppe, Capuano Annalisa
- 14:50-15:00** Effectiveness and safety of maintenance immunosuppressive drug therapies in kidney transplant: a real-world retrospective cohort study in Italy
Finocchietti Marco, Rosa Alessandro Cesare, Poggi Francesca Romana, Massari Marco, Ricci Andrea, Pierobon Silvia, Mazzone Arianna, Ledda Stefano, CESIT study group CESIT project, Belleudi Valeria
- 15:00-15:10** Evaluating the disease activity of rheumatoid arthritis patients at initiation and discontinuation of biologic DMARDs in Tuscany
Convertino Irma, Cazzato Massimiliano, Tillati Silvia, Giometto Sabrina, Gini Rosa, Valdiserra Giulia, Cappello Emiliano, Ferraro Sara, Bonaso Marco, Bartolini Claudia, Paoletti Olga, Lorenzoni Valentina, Trieste Leopoldo, Filippi Matteo, Turchetti Giuseppe, Cristofano Michele, Blandizzi Corrado, Mosca Marta, Lucenteforte Ersilia, Tuccori Marco
- 15:10-15:20** Adverse drug reactions to anti-tumor necrosis factor- α therapies in inflammatory bowel disease
Ruffolo Livia, Spagnuolo Rocco, Tallarico Martina, Palleria Caterina, Marcianò Gianmarco, Catarisano Luca, Basile Emanuele, Doldo Patrizia, Leo Antonio, De Sarro Giovambattista

ORAL COMMUNICATIONS

WEDNESDAY, NOVEMBER 16TH

- 15:20-15:30** Estimation of patients with psoriasis potentially eligible to biologic agents and not currently treated with these therapies: analysis of real-world data in Italy
Degli Esposti Luca, Perrone Valentina, Dovizio Melania, Sangiorgi Diego, Di Cesare Antonella, Rosi Elia, Prignano Francesca
- 15:30-15:40** Safety profile of biological drugs in psoriasis: real life data from the active Calabria Biologics Pharmacovigilance Program (CBPP)
Verduci Chiara, Dastoli Stefano, Rania Vincenzo, Bennardo Luigi, Casarella Alessandro, Vocca Cristina, Palleria Caterina, Tallarico Martina, Gallelli Luca, Citraro Rita, De Sarro Giovambattista, Leo Antonio
- 15:40-15:50** Overview of the safety of biologic therapies for severe asthma: an analysis of VigiBase®, the WHO pharmacovigilance database
Cutroneo Paola Maria, Arzenton Elena, Furci Fabiana, Bulzomì Maria, Crisafulli Salvatore, Caminati Marco, Senna Gianenrico, Moretti Ugo, Trifirò Gianluca
- 15:50-16:00** Antibiotic-Induced neutropenia in pediatric patients: a pharmacoepidemiological analysis and a systematic review
Battini Vera, Gringeri Michele, Mosini Giulia, Guarnieri Greta, Bombelli Anna, Mari Alessandra, Casini Francesca, Bergamaschi Francesco, Fabiano Valentina, Clementi Emilio, Radice Sonia, Carnovale Carla

TARRAGONA

CARDIOMETABOLIC PHARMACOLOGY

Chairpersons: **Elisabetta Caiazzo, Marina Camera**

- 14:00-14:10** Platelet-associated Tissue Factor: pharmacological modulation and intracellular localization
Brambilla Marta, Canzano Paola, Rovati Gian Enrico, Cosentino Nicola, Conti Maria, Becchetti Alessia, Cattaneo Marco, De Candia Erica, Podda Gian Marco, Trabattoni Daniela, Pinna Christian, Marenzi Gian Carlo, Tremoli Elena, Camera Marina
- 14:10-14:20** Platelet thromboxane inhibition by low-dose aspirin in polycythemia vera: ex vivo and in vivo measurements and in silico simulation
Petrucci Giovanna, Giarretta Alberto, Ranalli Paola, Cavalca Viviana, Dragani Alfredo, Porro Benedetta, Hatem Duaa, Habib Aida, Tremoli Elena, Patrono Carlo, Rocca Bianca
- 14:20-14:30** Renal effect of sacubitril/valsartan in a rat model of age-related heart failure
Riemma Maria Antonietta, Cappetta Donato, Telesca Marialucìa, Bellocchio Gabriella, Donniacuo Maria, Rossi Francesco, Urbanek Konrad, De Angelis Antonella, Berrino Liberato
- 14:30-14:40** Byglican involvement in fibrosis: modulation of Adenosine 2A receptors improves fibrotic damage
Mannino Federica, Scuruchi Michele, Pallio Giovanni, Imbesi Chiara, Squadrito Francesco, Bitto Alessandra, Irrera Natasha
- 14:40-14:50** Cardiac fibroblast activation in the early stage of anthracycline cardiotoxicity involves Nav1.5 sodium channel
Donniacuo Maria, Cappetta Donato, Telesca Marialucìa, Riemma Maria Antonietta, Bellocchio Gabriella, Berrino Liberato, Rossi Francesco, De Angelis Antonella, Urbanek Konrad Arkadiusz
- 14:50-15:00** Genetic deletion of the entire inflammatory chemokine receptor (IL1Ccr) locus confers atheroprotective effects in experimental atherosclerosis
Caiazzo Elisabetta, MacRitchie Neil, Gurgone Danila, Khunayn Abdullatif Mohammed A Bin, Shoaran Mohsen, Gu Shutong, McShane Lucy, Ardizzone Alessio, Esposito Emanuela, Ialenti Armando, Giacca Mauro, Zentilin Lorena, E Cole Jennifer, Monaco Claudia, Guzik Tomasz J, Graham Gerard J, Maffia Pasquale
- 15:00-15:10** Genetically determined deficiency of ANGPTL3 does not alter HDL ability to preserve endothelial homeostasis
Ossoli Alice, Minicocci Ilenia, Turri Marta, Montavoci Linda, Di Costanzo Alessia, D'Erasmus Laura, Bini Simone, Veglia Fabrizio, Calabresi Laura, Arca Marcello
- 15:10-15:20** Dapagliflozin slows the progression of chronic kidney disease in a non-diabetic model of salt-sensitive hypertension and cardiorenal syndrome
Bellocchio Gabriella, Cappetta Donato, Telesca Marialucìa, Donniacuo Maria, Riemma Maria Antonietta, Conte Elena, Imbriaci Paola, De Luca Annamaria, Rossi Francesco, Liantonio Antonella, Berrino Liberato, Urbanek Konrad, De Angelis Antonella

ORAL COMMUNICATIONS

WEDNESDAY, NOVEMBER 16TH

- 15:20-15:30** Sex-dependent impacts of an essential amino acid defined-diet on obesity management
Ruocco Chiara, Ragni Maurizio, Severi Ilenia, Cinti Saverio, Giordano Antonio, Carruba Michele, Valerio Alessandra, Nisoli Enzo
- 15:30-15:40** Enteric glial activation during intestinal inflammation drives neuropathological changes across the gut-brain axis
Seguella Luisa, Pesce Marcella, Corpetti Chiara, Del Re Alessandro, Palenca Irene, Basili Franzin Silvia, Sarnelli Giovanni, Esposito Giuseppe
- 15:40-15:50** Diet-induced gut/brain dysregulation as a driver for obesity: a role for gut microbiota
Benvenuti Laura, D'Antongiovanni Vanessa, Pellegrini Carolina, Fornai Matteo, Di Salvo Clelia, Carta Gianfranca, Ghelardi Emilia, Calvigioni Marco, Panattoni Adelaide, Antonioli Luca
- 15:50-16:00** The role of TGF β 1 in diabetic retinopathy
Platania Chiara Bianca Maria, Bonfiglio Vincenza, Lazzara Francesca, Conti Federica, Pizzo Corrado, Reibaldi Michele, Longo Antonio, Avitabile Teresio, Drago Filippo, Bucolo Claudio

PERGAMO

BASIC AND CLINICAL RESEARCH

Chairpersons: **Luigi Brunetti, Alma Martelli**

- 14:00-14:10** Asic1a-blocking monoclonal antibody restores hippocampal synaptic plasticity impairment induced by $\alpha\beta$
Mango Dalila, Nisticò Robert
- 14:10-14:20** Hydroxycarboxylic acid receptor 2 activation and ocular pathologies: focus on diabetic retinopathy
Trotta Maria Consiglia, Gesualdo Carlo, D'Amico Giovanbattista, Lepre Caterina Claudia, Russo Marina, Pieretti Gorizio, Hermenean Anca, Rossi Settimio, D'Amico Michele
- 14:20-14:30** Plasma Membrane and Mitochondrial CB1 receptor in hippocampal D1-positive cells: Different Role on Memory Processes
Lavanco Gianluca, Cruz Jose Fernando Oliveira, Pagano Zottola Antonio, Cannich Astrid, Julio-Kalajzi Francisca, Cannizzaro Carla, Drago Filippo, Bellocchio Luigi, Marsicano Giovanni
- 14:30-14:40** Stress resilience and vulnerability: do glial cells play a role?
Valenza Marta, Facchinetti Roberta, Musazzi Laura, Barbon Alessandro, Milanese Marco, Popoli Maurizio, Bonanno Giambattista, Steardo Luca, Bonifacino Tiziana, Scuderi Caterina
- 14:40-14:50** Adenosinergic System Involvement in Ischemic Stroke Patients' Lymphocytes
Vincenzi Fabrizio, Pasquini Silvia, Casetta Ilaria, Laudisi Michele, Borea Pier Andrea, Varani Katia
- 14:50-15:00** Protective effects of prebiotic fructooligosaccharides supplementation in counteracting metabolic derangements evoked by chronic exposure to sugars (fructose versus galactose)
Collotta Debora, Mastrocola Raffaella, El-Masri Fidele, Ferreira Alves Gustavo, Aimaretti Eleonora, Aragno Manuela, Porcietto Elisa, Frank Jan, Collino Massimo
- 15:00-15:10** BAY-117082-driven NLRP3 inflammasome inhibition resolves nitro-glycerine (NTG) neuronal damage in *in vivo* model of migraine
Lanza Marika, Casili Giovanna, Filippone Alessia, Scuderi Sarah Adriana, Basilotta Rossella, Bova Valentina, Paterniti Irene, Esposito Emanuela
- 15:10-15:20** Ranolazine counteracts strength impairment and oxidative stress in aged sarcopenic mice
Cappetta Donato, Torcinaro Alessio, De Santa Francesca, Telesca Marialucìa, Ferraro Elisabetta, Urbanek Konrad, Berrino Liberato, De Angelis Antonella

ORAL COMMUNICATIONS

WEDNESDAY, NOVEMBER 16TH

15:20-15:30

In brain post-ischemic plasticity, $\text{Na}^+/\text{Ca}^{2+}$ exchanger 1 and ascl1 intervene in microglia-dependent conversion of astrocytes into neuronal lineage
Casamassa Antonella, Cuomo Ornella, Pannaccione Anna, Cepparulo Pasquale, Laudati Giusy, Valsecchi Valeria, Annunziato Lucio, Pignataro Giuseppe

15:30-15:40

Polydeoxyribonucleotide (PDRN) exhibits beneficial effects in an *in vitro* model of fuchs endothelial corneal dystrophy
Pallio Giovanni, Mannino Federica, Irrera Natasha, Minutoli Letteria, Squadrito Francesco

15:40-15:50

β -amyloid impairs the astrocyte-oligodendrocyte crosstalk required for myelination: preclinical evidence with co-ultramicrosized palmitoylethanolamide/luteolin
Facchinetti Roberta, Valenza Marta, Voci Valeria, Ciarla Claudia, Gomiero Chiara, Steardo Luca, Campolongo Patrizia, Scuderi Caterina

15:50-16:00

Obeticholic acid protects liver against matrix metalloproteinase activation in a diet-induced ob/ob mouse model of NASH
Cagna Marta, Palladini Giuseppina, Di Pasqua Laura Giuseppina, Croce Anna Clea, Bosco Oriana, Totaro Maria, Adorini Luciano, Ferrigno Andrea, Vairetti Mariapia

MASSALIA II

**APPROACHING PHARMACOLOGICAL SPACE
AND NEW CHALLENGES IN PHARMACOLOGY**

Chairpersons: **Mariarosaria Bucci, Lucia Morbidelli**

- 08:30-08:40** Pulsed electromagnetic fields stimulate VEGF release in human astrocytes protecting neuron-like cells from oxygen-glucose deprivation
Pasquini Silvia, Vincenzi Fabrizio, Setti Stefania, Salati Simona, Cadossi Ruggero, Borea Pier Andrea, Varani Katia
- 08:40-08:50** Physiological adaptations affecting drug pharmacokinetics in space: what do we really know?
Morbidelli Lucia
- 08:50-09:00** Adaptation of mouse skeletal muscle to long-term microgravity
Camerino Giulia Maria, Pierno Sabata, Desaphy Jean-Francois
- 09:00-09:10** Hydrogen sulfide donors improve obesity-induced skeletal muscle dysfunction
Vellecco Valentina, Martina Smimmo, Casillo Gian Marco, Bello Ivana, Panza Elisabetta, Cirino Giuseppe, Bucci Mariarosaria
- 09:10-09:20** The regulatory effects of microRNAs targeting the Wnt/b-catenin signaling pathway on primary and secondary osteoporosis
Bauso Luana Vittoria, Mannino Federica, Irrera Natasha, Lui Maria, Giosa Domenico, Bitto Alessandra

BAALBEK

**INFLAMMATION PHARMACOLOGY
AND IMMUNOPHARMACOLOGY**

Chairpersons: **Alessandra Bitto, Letteria Minutoli**

- 08:30-08:40** Positive allosteric modulation of the enzyme indoleamine 2,3-dioxygenase 1 (IDO1) for the control of neuroinflammation
Mondanelli Giada, Orabona Ciriana, Belladonna Maria Laura, Pallotta Maria Teresa, Gargaro Marco, Panfili Eleonora, Suvieri Chiara, Fallarino Francesca, Volpi Claudia
- 08:40-08:50** IL-9R loss in innate lymphoid cell type 2 (ILC2) reflects Treg impairment in mastocytosis patients
Ercolano Giuseppe, Trabanelli Sara, Ianaro Angela, Jandus Camilla, Jandus Peter
- 08:50-09:00** Inflammation and oxidative stress in chronic kidney disease: indoxyl sulfate as a regulator of intestinal and immune response impairment
Rapa Shara Francesca, Popolo Ada, Iovane Valentina, Di Iorio Biagio Raffaele, Dal Piaz Fabrizio, Paciello Orlando, Nishijima Fuyu, Autore Giuseppina, Marzocco Stefania
- 09:00-09:10** The sterol element binding protein 1c (SREBP1c) is an immunometabolic checkpoint of regulatory T cell phenotype
Bonacina Fabrizia, Fraire Sara, Procaccini Claudio, Pedretti Silvia, Audano Matteo, Stucchi Giulia, Catapano Alberico Luigi, Mitro Nico, Matarese Giuseppe, Norata Giuseppe Danilo
- 09:10-09:20** Amniotic fluid stem cells-derived extracellular vesicles reprogram dendritic cell functions in autoimmune neuroinflammation
Ricciuti Doriana, Manni Giorgia, Gargaro Marco, Scalisi Giulia, Mencarelli Giulia, Pieroni Benedetta, Talesa Vincenzo Nicola, Puccetti Paolo, Romani Rita, Fallarino Francesca
- 09:20-09:30** Hybrids targeting Nrf2 and MAO-B as pharmacological tools to counteract neuroinflammation
Baronchelli Eva, Fagiani Francesca, Basagni Filippo, Di Paolo Maria Luisa, Minarini Anna, Rosini Michela, Lanni Cristina

MASSALIA I

ADDICTION AND PAIN

Chairpersons: Irene Paterniti, Paola Sacerdote

- 17:00-17:10** Psycho-social events secondary to drug-induced impulse control disorders: network analysis in the FDA Adverse Event Reporting System
Fusaroli Michele, Giunchi Valentina, Polizzi Stefano, Menestrina Luca, Castellani Gastone, Raschi Emanuel, Poluzzi Elisabetta
- 17:10-17:20** A new rat model of Gaming Disorder (GD): sex differences in behavior and neural circuits activated during play
Casile Antonino, Bonaldo Brigitta, Nasini Sofia, Gotti Stefano, Cifani Carlo, Panzica Giancarlo, Marraudio Marilena
- 17:20-17:30** *In vitro* reconstructed human corneal tissue models for medical device testing in dry eye syndrome
Citi Valentina, Carolina Pellegrini, Fabio Neggiani, Marco Sansò, Nunzia Bernardini, Vincenzo Calderone
- 17:30-17:40** What amount of cannabinoids is associated with an opioid-sparing effect? A systematic review of longitudinal studies
Lunghi Carlotta, El-Mourad Jihane, Perez Herrera Norma, Liwono Jerry, Zongo Arsène
- 17:40-17:50** The dual role of VEGF-A in mediating pain and neuroprotective signaling in rat organotypic spinal cord slices
Toti Alessandra, Micheli Laura, Ferrara Valentina, Ciampi Clara, Margiotta Francesco, Graziani Grazia, Laca Pedro Miguel, Gerace Elisabetta, La Rocca Antonino, Di Cesare Mannelli Lorenzo, Ghelardini Carla
- 17:50-18:00** Protective effect of Dimethyl fumarate (DMF) in post-operative pain
Casili Giovanna, Lanza Marika, Filippone Alessia, Cucinotta Laura, Campolo Michela, Paterniti Irene, Cuzzocrea Salvatore, Esposito Emanuela
- 18:00-18:10** Glymphatic system and Inflammatory Bowel Diseases: evidence of brain clearance impairment in a mouse model of colitis-induced visceral pain
Ciampi Clara, Micheli Laura, Lucarini Elena, Trabace Luigia, Pittaluga Anna Maria, Mattace Raso Giuseppina, Meli Rosaria, Lanni Cristina, Ghelardini Carla, Di Cesare Mannelli Lorenzo
- 18:10-18:20** The endovanilloid/cannabinoid entorhinal cortex-dentate gyrus path in chronic pain memory impairment
Iannotta Monica, Guida Francesca, Ricciardi Flavia, Boccella Serena, Desiderio Vincenzo, Misso Gabriella, Tirino Virginia, Falco Michela, Infantino Rosmara, Pieretti Gorizio, de Novellis Vito, Papaccio Gianpaolo, Luongo Livio, Caraglia Michele, Maione Sabatino
- 18:20-18:30** A new Sigma-1 Receptor antagonist in Chronic Pain Treatment: (+)-2R/S-LP2 effects in inflammatory and neuropathic pain
Spoto Salvatore, Pasquinucci Lorella, Turnaturi Rita, Costanzo Giuliana, Chiechio Santina, Vicario Nunzio, Parenti Rosalba, Marrazzo Agostino, Amata Emanuele, Parenti Carmela

MASSALIA I
TOXICOLOGY

Chairpersons: **Alessio Masi, Emanuela Masini**

- 08:30-08:40** Phthalic acid esters impair sperm acrosomal reaction through the likely upstream inhibition of phospholipase A2-signaling pathway
De Toni Luca, Cosci Ilaria, Dal'Acqua Stefano, Sut Sfeania, Garolla Andrea, Ferlin Alberto
- 08:40-08:50** Epigenetic dysregulation in SHSY5Y cells exposed to endocrine disruptors
Morroni Fabiana, Graziosi Agnese, Sita Giulia, Corrieri Camilla, Hrelia Patrizia
- 08:50-09:00** Bisphenol A worsens anxiety-like behavior and neuroinflammation induced by high-fat diet in obese mice
Del Piano Filomena, Lama Adriano, Opallo Nicola, Pirozzi Claudio, Annunziata Chiara, Comella Federica, Melini Stefania, Mattace Raso Giuseppina, Meli Rosaria, Ferrante Maria Carmela
- 09:00-09:10** Arsenic in drinking water as a potential health risk in several municipalities of the Varese province (Italy)
Balestra Barbara, Minisini Oliviero, Chiesa Giulia, Costa Sara, Toffol Martina, Pastoris Ornella
- 09:10-09:20** Understanding Metformin: has the penny dropped? A case report
Fiorini Alessandro, Actis Pietro, Dal Porto Michele, Sama Maria Giulia, Domenicali Marco, Pani Luca, Guerzoni Simona
- 09:20-09:30** Environmental monitoring for the evaluation of professional exposure to antineoplastic agents in healthcare workers of the University Hospital San Giovanni di Dio e Ruggi d'Aragona
Coglianesi Albino, Charlier Bruno, De Rosa Federica, Cozzolino Armando, Marmo Elvira, Izzo Viviana, Filippelli Amelia, Dal Piaz Fabrizio

PERGAMO

PHARMACOGNOSY

Chairpersons: **Vincenzo Calderone, Anna Maria Pittaluga**

- 08:30-08:40** *Zingiber officinale* Roscoe rhizome extract as a novel nutraceutical intervention to control clinical and biological outcomes in animal model of multiple sclerosis
Borgonetti Vittoria, Galeotti Nicoletta
- 08:40-08:50** The H₂S-donor erucin (from *Eruca sativa* Mill.) protects endothelial cells from LPS-induced vascular inflammation
Piragine Eugenia, Ciccone Valerio, Citi Valentina, Gorica Era, Montanaro Rosangela, Testai Lara, Pagnotta Eleonora, Pecchioni Nicola, Brancaleone Vincenzo, Di Cesare Mannelli Lorenzo, Ghelardini Carla, Morbidelli Lucia, Martelli Alma, Calderone Vincenzo
- 08:50-09:00** Pre-clinical evidence of hydroxytyrosol efficacy in counteracting inflammatory response and oxidative stress induced by Nsp3/PLpro SARS-CoV-2 infection
Smeriglio Antonella, Crudele Annalisa, Ingegneri Mariarosaria, Panera Nadia, Braghini Maria Rita, Alisi Anna, Trombetta Domenico
- 09:00-09:10** Anti-inflammatory and immunomodulatory effects of *Mangifera indica* L. extract in CD4⁺CD45RB^{high} T cells transfer model of colitis
Saviano Anella, Marigliano Noemi, Raucci Federica, Mansour Adel Abo, Cirino Giuseppe, Bucci Mariarosaria, Iqbal Asif Jilani, Maione Francesco
- 09:10-09:20** Healthy effects of a new formulation of Pomegranate-Peel Extract in an animal model of multiple sclerosis
Olivero Guendalina, Vallarino Giulia, Roggeri Alessandra, Taddeucci Alice, Turrini Federica, Salis Annalisa, Lucarini Elena, Damonte Gianluca, Boggia Raffaella, Di Cesare Mannelli Lorenzo, Ghelardini Carla, Pittaluga Anna
- 09:20-09:30** Anti-Inflammatory effects of Polyphenolic Granular Complex from Olive (*Olea europaea*, mainly *Cultivar coratina*): results from *ex vivo* and *in vivo* studies in a model of Inflammation and MIA-Induced Osteoarthritis in rats
Libero Maria Loreta, Micaeli Laura, Recinella Lucia, Chiavaroli Annalisa, Giustino Orlando, Menghini Luigi, Acquaviva Alessandra, Di Simone Simonetta, Ferrante Claudio, Ghelardini Carla, Brunetti Luigi, Leone Sheila
- 09:30-09:40** Flavanones induced antiproliferative effects in human leukemia monocytic THP-1 cells via the inhibition of SIRT2 pathway
Cirmi Santa, Russo Caterina, Maugeri Alessandro, De Luca Laura, Gitto Rosaria, Lombardo Giovanni Enrico, De Sarro Giovambattista, Navarra Michele
- 09:40-09:50** Characterization of the phytochemical composition and cytoprotective properties of *Brassica oleracea* var. *botrytis* L. by-products: a recycling strategy for nutraceutical production
Di Sotto Antonella, Gulli Marco, Percaccio Ester, Vitalone Annabella, Spano Mattia, Ingallina Cinzia, Di Giacomo Silvia
- 09:50-10:00** Pro-apoptotic activity of the marine sponge *Dactylospongia elegans* metabolites pelorol and 5-epi-ilimaquinone on human 501Mel melanoma cells
Carpi Sara, Scoditti Egeria, Polini Beatrice, Brogi Simone, Calderone Vincenzo, Proksch Peter, Ebada Sherif S., Nieri Paola

PERGAMO

**TARGETING NEURONAL CHLORIDE TRANSPORTERS NKCC1
AND KCC2 FOR PSYCHIATRIC AND NEUROLOGICAL DISORDERS**

Chairpersons: **Roberto Frau, Davide Pozzi**

- 17:00-17:10** Targeting Cl Homeostasis in Neurodevelopmental Disorders with New Selective NKCC1 Inhibitors
Savardi Annalisa, Borgogno Marco, De Vivo Marco, Cancedda Laura
- 17:10-17:20** Oxytocin regulation of KCC2 in neurodevelopmental disorders
Chini Bice, Gigliucci Valentina, Busnelli Marta, Luoni Mirko, Woodbury-Smith Marc, Deutsch Jasper, Banerjee Abhishek
- 17:20-17:30** Maternal Immune Activation impinges on Excitatory-to Inhibitory GABA Switch in Offspring
Pozzi Davide, Desiato Genni, Mirabella Filippo, Fraviga Edoardo, Matteoli Michela
- 17:30-17:40** Targeting KCC2 rescues the neurobehavioral complications induced by sleep deprivation
Frau Roberto, Concas Luca, Traccis Francesco, Scheggi Simona, Melis Miriam
- 17:40-17:50** Effects of bumetanide on midbrain dopamine neurons activity impaired by sleep deprivation
Santoni Michele, Concas Luca, Pistis Marco, Frau Roberto
- 17:50-18:00** Ischemic preconditioning promotes neurogenesis in ischemic rats through $\text{Na}^+/\text{Ca}^{2+}$ exchanger activity
Brancaccio Paola, Cuomo Ornella, Vinciguerra Antonio, Anzilotti Serenella, Annunziato Lucio, Pignataro Giuseppe
- 18:00-18:10** Peripheral immune pathways are involved in neuroprotection exerted by ischemic preconditioning in mice subjected to transient middle cerebral artery occlusion
La Russa Daniele, Di Santo Chiara, Bagetta Giacinto, Amantea Diana
- 18:10-18:20** Neuroprotective effect of fluoxetine against retinal ganglion cells damage in a murine ischemia/reperfusion model
Di Martino Serena, Maurel Oriana, Gozzo Lucia, Riolo Valentina, Drago Filippo, Micale Vincenzo, Romano Giovanni Luca, Bucolo Claudio
- 18:20-18:30** Increased stress vulnerability in the offspring of socially isolated rats: behavioural and redox dysfunctions
Schiavone Stefania, Sikora Vladyslav, Palmieri Maria Adelaide, Tucci Paolo, Trabace Luigia

PERGAMO

PHARMACOLOGY OF RARE DISEASES

Chairpersons: **Marzia Del Re, Antonio Torsello**

- 08:20-08:30** Generation of a patient specific hiPSC-derived neuronal model for Congenital Central Hypoventilation Syndrome (CCHS)
Cuadros Gamboa Ana Lucia, Benfante Roberta, Nizzardo Monica, Bachetti Tiziana, Arzilli Cinzia, Peruzzi Marta, Cardani Silvia, Ceccherini Isabella, Piumelli Raffaele, Nassi Niccolò, Di Lascio Simona, Fornasari Diego
- 08:30-08:40** Olipudase Alfa for Adults with Acid Sphingomyelinase Deficiency: Improvements in Crossover Placebo Patients and Further Improvements in Original Olipudase Alfa Patients after 2 Years in ASCEND Trial
Scarpa Maurizio, Barbato Antonio, Gallagher Renata C, Giugliani Roberto, Guelbert Norberto Bernardo, Hennermann Julia B, Hollak Carla, Ikezoe Takayuki, Robin Lachmann Robin, Lidove Olivier, Mabe Paulina, Mengel Eugen, Senates Ebubekir, Tchan Michel, Villarrubia Jesus, Armstrong Nicole M, Thurberg Beth L, Yarramaneni Abhimanyu, Kim Yong, Kumar Monica, Wasserstein Melissa P.
- 08:40-08:50** Effects of the HDL mimetic CER-001 in Familial Lecithin: Cholesterol Acyltransferase Deficiency
Pavanello Chiara, Turri Marta, Strazzella Arianna, Tulissi Patrizia, Pizzolitto Stefano, De Maglio Giovanna, Nappi Riccardo, Calabresi Laura, Boscutti Giuliano
- 08:50-09:00** Characterization of *in vivo*, *ex vivo* and *in vitro* effects of growth hormone secretagogues in murine and cell models of Duchenne muscular dystrophy
Cappellari Ornella, Mantuano Paola, Boccanegra Brigida, Cirmi Santa, Tulumiero Lisamaura, Elena Bresciani, Mele Antonietta, De Bellis Michela, Conte Elena, Denoyelle Severine, Trisciuzzi Daniela, Nicolotti Orazio, Torsello Antonio, Liantonio Antonella, De Luca Annamaria
- 09:00-09:10** Targeting gut dysbiosis against inflammation and impaired autophagy in Duchenne muscular dystrophy
Kalkan Hilal, Pagano Ester, Paris Debora, Panza Elisabetta, Cuozzo Mariarosaria, Abolghasemi Armita, Piscitelli Fabiana, Gazzozerro Elisabetta, Silvestri Cristoforo, Capasso Raffaele, Motta Andrea, Russo Roberto, Di Marzo Vincenzo, Iannotti Fabio Arturo
- 09:10-09:20** Growth hormone secretagogues in Duchenne muscular dystrophy: effects on *in vitro* myogenesis
Bresciani Elena
- 09:20-09:30** Store-operated calcium entry modulators as novel pharmacological strategy for Duchenne muscular dystrophy
Riva Beatrice, Pessolano Emanuela, Reano Simone, Piralì Tracey, Genazzani Armando A, Filigheddu Nicoletta

MASSALIA I

NEUROPHARMACOLOGY 2

Chairpersons: **Raffaella Molteni, Marco Racchi**

- 08:30-08:40** miR135a Administration Ameliorates Brain Ischemic Damage by preventing TRPM7 activation during brain ischemia
Sirabella Rossana, Cuomo Ornella, Cepparulo Pasquale, Brancaccio Paola, Vinciguerra Antonio, Anzilotti Serenella, Guida Natascia, Laudati Giusy, Valsecchi Valeria, Annunziato Lucio, Pignataro Giuseppe
- 08:40-08:50** Importin1/KPNA2-mediated nuclear ERK1/2 signaling potentiation prevents neurodegeneration and facilitates cognitive enhancement
Morella Ilaria, Indrigo Marzia, Orellana Daniel, d'Isa Raffaele, Papale Alessandro, Parra Riccardo, Gurgone Antonia, Lecca Daniela, Cavaccini Anna, Tigaret Cezar, Cagnotto Alfredo, Jones Kimberley, Brooks Simon, Ratto Gian Michele, Allen Nicholas, Middei Silvia, Giustetto Maurizio, Carta Anna, Tonini Raffaella, Salmona Mario, Hall Jeremy, Thomas Kerrie, Fasano Stefania, Brambilla Riccardo
- 08:50-09:00** Characterization of the extracellular vesicles released by astrocytes cultured from the spinal cord of late symptomatic SOD1G93A mice, a model of amyotrophic lateral sclerosis
Zerbo Roberta Arianna, Fabbiano Fabrizio, Tessitore Sara, Balbi Matilde, Milanese Marco, D'Agostino Vito Giuseppe, Bonanno Giambattista
- 09:00-09:10** The role of glial reactivity in neurodegenerative disorders: from cellular modifications to possible therapeutic approaches
Valenza Marta, Facchinetti Roberta, Scuderi Caterina
- 09:10-09:20** Remarkable differences between astrocytes of Substantia Nigra pars compacta and pars reticulata in their response to aging and neurodegeneration
Bondi Heather, Bortolotto Valeria, Chiazza Fausto, Masante Irene, Canonico Pier Luigi, Grilli Mariagrazia
- 09:20-09:30** Modulators of lysosomal functions rescue autophagy and lysosomal defects in SPG15 hereditary spastic paraplegia models
Guarato Giulia, Vantaggiato Chiara, Dianin Francesca, Gumeni Sentiljana, Bassi Maria Teresa, Orso Genny
- 09:30-09:40** Beta-caryophyllene, a plant-derived CB2 receptor agonist, protects SH-SY5Y cells from cadmium-induced toxicity
Mannino Federica, Pallio Giovanni, Minutoli Letteria, Squadrito Francesco, Bitto Alessandra, Irrera Natasha
- 09:40-09:50** Experimental Evidence for cytoprotective effect of Idebenone in human retinal pigment epithelial cells exposed to H₂O₂-induced oxidative stress by via activation of intrinsic mitochondrial pathway of apoptosis
Pizzoferrato Michela, Clementi Maria Elisabetta, Bianchetti Giada, Brancato Anna, Maulucci Giuseppe, Tringali Giuseppe
- 09:50-10:00** Chronic administration of LBMAA in mice causes neurological and pathological phenotypes mimicking Amyotrophic Lateral Sclerosis
Anzilotti Serenella, Valente Valeria, Brancaccio Paola, Franco Cristina, Pierantoni Giovanna Maria, Canzoniero Lorella M T, Annunziato Lucio, Pignataro Giuseppe

BAALBEK

CANCER PHARMACOLOGY 2

Chairpersons: **Carmela Fimognari, Rosalinda Sorrentino**

- 08:30-08:40** Hyperacute Multisystem Toxicities with Immune Checkpoint Inhibitors: emerging signals from the FDA Adverse Event Reporting System
Raschi Emanuel, Giunchi Valentina, Fusaroli Michele, Comito Francesca, Ardizzoni Andrea, Poluzzi Elisabetta, De Ponti Fabrizio
- 08:40-08:50** Resistance to immunotherapy in advanced non-small cell lung cancer patients does not correlate to the development of anti-Drug Antibodies
Colarusso Chiara, Terlizzi Michela, Pinto Aldo, Sorrentino Rosalinda
- 08:50-09:00** *In vitro* and *in vivo* efficacy assessment of a novel formulation of PD-L1-targeted liposomal doxorubicin on hepatocellular carcinoma
Gabbia Daniela, Grigoletto Antonella, Zanolto Ilaria, Mazzucco Veronica, Marin Antonella, Pasut Gianfranco, De Martin Sara
- 09:00-09:10** TRPM8 high expression marks poor prognosis in colorectal cancer patients and its pharmacological targeting reduces murine colon carcinogenesis
Pagano Ester, Romano Barbara, Cicia Donatella, Iannotti Fabio Arturo, Cattaneo Fabio, De Cicco Paola, Lucariello Giuseppe, Nani Maria Francesca, D'Armiento Maria, Lionetti Ruggiero, De Luca Marcello, Capasso Raffaele, Zoppoli Pietro, Di Marzo Vincenzo, Borrelli Francesca, Izzo Angelo Antonio
- 09:10-09:20** Extracellular vesicles and circulating miRNAs as biomarkers of treatment response in ovarian cancer patients
Ravegnini Gloria, Gorini Francesca, Coadà Camelia, Dondi Giulia, De Iaco Pierandrea, Perrone Anna Myriam, Angelini Sabrina, Hrelia Patrizia
- 09:20-09:30** Oxoeicosanoid Receptor 1 (OXER1) emerging role as a promising druggable target in Triple Negative Cancer (TNBC)
Buoso Erica, Masi Mirco, Garattini Enrico, Bolis Marco, Di Marino Marino, Robustellini Ilaria, Corsini Emanuela, Travelli Cristina, Racchi Marco
- 09:30-09:40** ERO1- α deficiency and activation of protein translation synergistically impair breast tumor resilience
Zito Ester, Varone Ersilia
- 09:40-09:50** Trabectedin effect on cell invasiveness and metastasis formation in adrenocortical carcinoma preclinical cell models
Abate Andrea, Tamburello Mariangela, Rossini Elisa, Basnet Ram Manohar, Ribaudo Giovanni, Gianoncelli Alessandra, Cosentini Deborah, Hantel Constanze, Tiberio Guido, Alberto Massimo, Grisanti Salvatore, Berruti Alfredo, Sigala Sandra
- 09:50-10:00** Molecular pathway analysis of ω -3 PUFAs anti-cancer effects in an *in vitro* model of medulloblastoma
Baiula Monica, Spampinato Santi

TARRAGONA

PHARMACOVIGILANCE, PHARMACOEPIDEMOLOGY,
PHARMACECONOMY AND REAL WORLD EVIDENCE 2

Chairpersons: **Paola Cutroneo, Marco Tuccori**

- 08:30-08:40** A systematic review on antidepressant drugs utilization in the community: preliminary results
Lunghi Carlotta, Dugas Michèle, Carnovale Valérie, Poluzzi Elisabetta, Raschi Emanuel, Giunchi Valentina, Fusaroli Michele, Turcotte Stéphanie, Leclerc Jacinthe, Ekanmian Giraud, Martineau Cathy, Stéfán Théo, Blouin Patrick, Lépine Johanie, Jalbert Laura, Espinoza Suarez Nataly R., Svyntozelska Olha, Dery Marie-Pier, Nogueira Daniele Maria, Akinola Pelumi Samuel, Skidmore Becky, LeBlanc Annie
- 08:40-08:50** Paliperidone Palmitate Real World Tolerability and Safety: a publicly available EudraVigilance Data Analysis
Cicala Giuseppe, Barbieri Maria Antonietta, Cutroneo Paola Maria, de Filippis Renato, De Fazio Pasquale, Schoretsanitis Georgios, Spina Edoardo
- 08:50-09:00** Pharmacovigilance of cannabidiol
Ammendolia Ilaria, Calapai Fabrizio, Mannucci Carmen, Cardia Luigi, Calapai Giocchino
- 09:00-09:10** Cannabinoids and Multiple Sclerosis: interim analysis of a multicenter, cross-sectional, epidemiological study in Lombardy, Italy
Gioffi Riccardo, Mercenari Martina, Confalonieri Paolo, Brambilla Laura, Antozzi Carlo, Crisafulli Sebastiano Giuseppe, Filippi Massimo, Zanetta Chiara, Annovazzi Pietro, Conti Marta Zaffira, Ronzoni Marco, Barillà Caterina, Negri Attilio, Gustavsen Stefan, Torri Clerici Valentina
- 09:10-09:20** Clinical Utility of Panel of Pharmacogenetic markers Associated with Adverse Drug Reactions in Fluoropyrimidine and Irinotecan-treated cancer patients enrolled in the PREPARE study- Results from a preliminary analysis
Roncato Rossana, Montico Marcella, Bignucolo Alessia, Foltran Luisa, Berretta Massimiliano, De Paoli Antonino, Guardascione Michela, Gerratana Lorenzo, Bartoletti Michele, Puglisi Fabio, D'Andrea Mario, Peruzzi Elena, De Mattia Elena, Milan Noemi, Giuseppe Toffoli, Swen Jesse, Guchelaar Henk-Jan, Cecchin Erika
- 09:20-09:30** Adverse Drug Reactions with Tyrosine Kinase Inhibitors in Gastrointestinal Stromal Tumors: an analysis from the Eudravigilance Database
Barbieri Maria Antonietta, Sorbara Emanuela Elisa, Santoro Vincenza, Cicala Giuseppe, Cutroneo Paola Maria, Franchina Tindara, Santarpia Mariacarmela, Silvestris Nicola, Spina Edoardo
- 09:30-09:40** Serious Adrenal Insufficiency with Antiangiogenic Tyrosine Kinase Inhibitors: a Pharmacovigilance-Pharmacodynamic study in the FDA Adverse Event Reporting System
Raschi Emanuel, Fusaroli Michele, Giunchi Valentina, Repaci Andrea, Massari Francesco, Ardizzoni Andrea, Poluzzi Elisabetta, Pagotto Uberto, Di Dalmazi Guido

ORAL COMMUNICATIONS

09:40-09:50

Non-Overt Disseminated Intravascular Coagulation Associated with Obinutuzumab: a Signal Detection Case Study

Valdiserra Giulia, Mores Nadia, Rocchi Rosalba Elisabetta, Sottosanti Laura, Felicetti Patrizia, Marchione Pasquale, Laurenti Luca, Fresa Alberto, Bucaneve Giampaolo, Cappello Emiliano, Tuccori Marco

09:50-10:00

Azithromycin and COVID-19: a real-world observational study

Antonazzo Ippazio Cosimo, Fornari Carla, Rozza Davide, Conti Sara, Di Pasquale Raffaella, Kaleci Shaniko, Ferrara Pietro, Zucchi Alberto, Maifredi Giovanni, Silenzi Andrea, Mantovani Lorenzo Giovanni, Mazzaglia Giampiero

MYSALA

CHEMOTHERAPY AND INFECTIOUS DISEASE

Chairpersons: **Patrizia Romualdi, Raffaella Sorrentino**

- 08:30-08:40** Management of polypharmacy in people living with HIV: a 5-year experience of a multidisciplinary outpatient clinic
Cattaneo Dario, Resnati Chiara, Oreni Letizia, Meraviglia Paola, Minisci Davide, Astuti Noemi, Antinori Spinello, Gervasoni Cristina
- 08:40-08:50** Therapeutic drug monitoring to optimize rifampicin dosing in TB patients: a real-life investigation
Resnati Chiara, Fusi Marta, Schiuma Marco, Lazzarin Samuel, Gervasoni Cristina, Antinori Spinello, Clementi Emilio, Cattaneo Dario, Torre Alessandro
- 08:50-09:00** Plasma and intracellular concentrations of ritonavir-boosted atazanavir and dolutegravir in the presence of rifampicin: a dose-escalation study
De Nicolò Amedeo, De Vivo Elisa, Mugerwa Henry, Nakabuye Shamim, Namusanje Josephine, Kobusingye Jesephine, Denti Paolo, Gausi Kamunkhwala, Waiti Catriona, D'Avolio Antonio
- 09:00-09:10** Development of SARS-CoV-2 Mpro Peptide-Based Inhibitors Bearing Bifunctional Warheads: Design, Synthesis, and Biological Evaluation
Calderone Vincenzo, Maga Giovanni, Zazzi Maurizio, Gemma Sandra, Simone Brogi
- 09:10-09:20** *In vitro* spike protein production of SARS-CoV-2 mRNA vaccines in the real-world setting: efficacy and safety implications
Cari Luigi, Naghavi Alhosseini Mahdieh, Migliorati Graziella, Nocentini Giuseppe
- 09:20-09:30** Antibody response evaluation in mothers vaccinated against SARS-CoV-2 during pregnancy and respective newborns at birth
Pani Arianna, Proto Alice, Agliardi Stefano, Gagliardi Oscar Matteo, Renica Silvia, Di Ruscio Federica, Vismara Chiara, Campisi Daniela, Scaglione Francesco, Martinelli Stefano
- 09:30-09:40** COVID-19 vaccines during pregnancy: A report from the Florence Teratology Information Service
Malgherini Edoardo, Munafò Antonio, Lanzi Cecilia, Missanelli Andrea, Mannaioni Guido, Pistelli Alessandra
- 09:40-09:50** Effectiveness and safety of Anti SARS-CoV-2 vaccination in transplant patients treated with immunosuppressants: a Real-world pilot study
Rania Vincenzo, Vocca Cristina, Marcianò Gianmarco, Casarella Alessandro, Catarisano Luca, Citraro Rita, Palleria Caterina, Gallelli Luca, De Sarro Giovambattista
- 09:50-10:00** Coadministration of seasonal inactivated influenza and COVID-19 vaccines: immunogenicity and reactogenicity evaluation
Pani Arianna, Romandini Alessandra, Maggi Matteo, Gazzaniga Gianluca, Agliardi Stefano, Schianchi Alice, Scaglione Francesco

41° CONGRESSO NAZIONALE della SOCIETÀ ITALIANA di FARMACOLOGIA

**IL VALORE SCIENTIFICO
e l'USO APPROPRIATO
del FARMACO**

**POSTER
SESSION**



THURSDAY, NOVEMBER 17TH
from 13:45 to 15:00

POSTER SESSION I

NERVOUS SYSTEM PHARMACOLOGY PS 1-16

Chairperson: Silvia Alboni

PS I/1

Role of the activated microglia in synaptic dysfunction associated with experimental models of neuroinflammation

Piccioni Gaia, Mango Dalila, Maisto Nunzia, Nisticò Robert

PS I/2

Ischemic preconditioning affects cerebral and blood expression of the immunoregulatory protein tumor necrosis factor-stimulated gene-6 (TSG6) in mice subjected to transient focal cerebral ischemia

Di Santo Chiara, La Russa Daniele, Bagetta Giacinto, Amantea Diana

PS I/3

Administration of Low-dose 7,8-Dihydroxyflavone after Status Epilepticus Prevents Epilepsy Development in the Pilocarpine Model

Guarino Annunziata, Bettegazzi Barbara, Aziz Nimra, Barbieri Mario, Bochicchio Daniela, Crippa Lucia, Marino Pietro, Sguizzato Maddalena, Soukupova Marie, Zucchini Silvia, Simonato Michele

PS I/4

Role of the endocannabinoid system in a preclinical model of autism spectrum disorder induced by maternal immune activation (MIA)

Carbone Emilia, Buzzelli Valeria, Rava Alessandro, Manduca Antonia, Trezza Viviana

PS I/5

Prenatal stress and adolescent depression in rats: the role of TGF- β 1 pathway

Fidilio Annamaria, Grasso Margherita, Caruso Giuseppe, Musso Nicolò, Begni Veronica, Torrisi Sebastiano Alfio, Leggio Gian Marco, Drago Filippo, Riva Marco Andrea, Caraci Filippo

PS I/6

Aquaporin-4 aggregation and KATP channel functional expression drive the U87 cells to apoptosis

Maqoud Fatima, Simone Laura, Zizzo Nicola, Nicchia Grazia Paola, Tricarico Domenico

PS I/7

In-vivo treatment with the GPR17 antagonist montelukast improves lifespan and delays disease progression in the SOD1G93A mouse model of amyotrophic lateral sclerosis

Bonifacino Tiziana, Nguyen T.P. Nhung, Raffaele Stefano, Frumento Giulia, Milanese Marco, Abbracchio Maria Pia, Bonanno Giambattista, Fumagalli Marta

PS I/8

A2A and Oxytocin receptor heteromers: exploring their role as modulators of glutamate release in adult striatal astrocytes

Amato Sarah, Aversa Monica, Guidolin Diego, Pedrazzi Marco, Capraro Michela, Passalacqua Mario, Bozzo Matteo, Gatta Elena, Maura Guido, Agnati Luigi F, Cervetto Chiara, Marcoli Manuela

PS I/9

Safety and tolerability of PaliperidonePalmitate

Vannucchi Tommaso, Cardamone Giuseppe

PS I/10

Ultrasonic vocalizations as behavioral correlates of fear memory dynamics in a rat model of Post-Traumatic Stress Disorder

Riccardi Eleonora, Virgilio Anna, Morena Maria, Campolongo Patrizia

PS I/11

Potassium channel tetramerization domain-containing protein 12 (KCTD12) interacts with Metabotropic Glutamate receptor 1 in mouse cerebellar cortex

Carboni Lucia, Mansouri Mahnaz, Kremser Leopold, Nguyen Thanh-Phuong, Kasugai Yu, Caberlotto Laura, Gassmann Martin, Bettler Bernhard, Lindner Herbert, Ferraguti Francesco

PS I/12

Cannabinoids and epilepsy: the emerging role of microglia on the protective effect of cannabidiol

Mazzantini Costanza, Pellegrini-Giampietro Domenico Edoardo, Landucci Elisa

PS I/13

Effect of probiotics on an early-stage Parkinson's disease rat model

De Caro Carmen, Marascio Nadia, De Marco Carmela, Veneziano Claudia, Avagliano Carmen, Quirino Angela, Tallarico Martina, Dardano Denise Maria, Pisano Maria, Matera Giovanni, Russo Emilio

PS I/14

Computational systems biology approach: implications in glaucoma

Giuffrida Erika, Platania Chiara Bianca Maria, Drago Filippo, Bucolo Claudio

PS I/15

Novel disease-modifying drugs modulating alpha-synuclein/synapsin III interplay for the treatment of Parkinson's disease

Longhena Francesca, Faustini Gaia, Casiraghi Andrea, Brembati Viviana, Straniero Valentina, Ribaldo Giovanni, Gianoncelli Alessandra, Valoti Erimanno, Bellucci Arianna

PS I/16

5HT_{2A} heteroreceptors and mGlu_{2/3} autoreceptors coexist on glutamatergic nerve endings in the prefrontal cortex and functionally cross-talk in an antagonist manner to modulate glutamate exocytosis

Taddeucci Alice, Olivero Guendalina, Roggeri Alessandra, Vallarino Giulia, Grilli Massimo, Milanese Claudio, Di Giorgio Francesco Paolo, Marchi Mario, Garrone Beatrice, Pittaluga Anna

NERVOUS SYSTEM PHARMACOLOGY PS 17-33

Chairperson: **Laura Musazzi**

PS I/17

Dysmetabolism of Polyamines in a Transgenic Mouse Model Overexpressing Spermine Oxidase in Cerebrocortical Neurons: Reactive Astrocytosis and Neuronal Suffering

Cervetto Chiara, Amato Sarah, Averna Monica, Vergani Laura, Pedrazzi Marco, Giuliani Stefano, Baldini Francesca, Maura Guido, Mariotti Paolo, Cervelli Manuela

PS I/18

Tuberomammillary nucleus histaminergic neurons modulates stress susceptibility and resilience in a murine model of chronic social stress

Costa Alessia, Becagli Maria Vittoria, Blandina Patrizio, Provensi Gustavo, Passani Maria Beatrice

PS I/19

Age- and sex-dependent differences in GABA transmission in mice hippocampal nerve terminals

Roggeri Alessandra, Vallarino Giulia, Taddeucci Alice, Benatti Cristina, Blom Johanna Maria Catharina, Olivero Guendalina, Tascedda Fabio, Brunello Nicoletta, Pittaluga Anna

PS I/20

The Anemonia sulcata Toxin BDS-I Protects Astrocytes Exposed To $A\beta_{1-42}$ Oligomers by Restoring $[Ca^{2+}]_i$ Transients and ER Ca^{2+} Signaling

Piccialli Ilaria, Tedeschi Valentina, Boscia Francesca, Ciccone Roselia, Casamassa Antonella, de Rosa Valeria, Grieco Paolo, Secondo Agnese, Pannaccione Anna

PS I/21

Concomitant inhibition of α_2 and D2 receptors potentiates the dopamine system: implications for pharmacotherapy in schizophrenia

Sagheddu Claudia, Devoto Paola, Pistis Marco, Gessa Gianluigi

PS I/22

The negative allosteric modulator CTEP ameliorates the reactive phenotype of human-derived iAstrocytes differentiated from iNPCs of patients affected by Amyotrophic Lateral Sclerosis

Tessitore Sara, Torazza Carola, Kumar Mandeep, Bonifacino Tiziana, Shaw Allan, Bacchetti Francesca, Shaw Pamela Jean, Ferraiuolo Laura, Bonanno Giambattista, Milanese Marco

PS I/23

2-Pentadecyl-2-Oxazoline (PEA-OXA) lessens anxiety-like behavior and associated neuroinflammation in a mouse model of high-fat diet-induced obesity

Opallo Nicola, Pirozzi Claudio, Melini Stefania, Del Piano Filomena, Comella Federica, Chiara Annunziata, Mattace Raso Giuseppina, Meli Rosaria, Lama Adriano

PS I/24

Chemogenetic manipulation of TMNHA neurons modulates the expression of memory

Becagli Maria Vittoria, Costa Alessia, Rani Barbara, Blandina Patrizio, Provensi Gustavo, Passani Maria Beatrice

PS I/26

Pesticides dispersion in aquatic environment: analysis of behavior and histological effects of Rotenone and Deltamethrin exposure on the animal model, Zebrafish

Grisotto Jacopo, Moretti Ugo, Paolone Giovanna

PS I/27

Antioxidant activity of fluoxetine and vortioxetine in a non-transgenic animal model of Alzheimer's Disease

Grasso Margherita, Caruso Giuseppe, Fidilio Annamaria, Torrisi Sebastiano Alfio, Musso Nicolò, Geraci Federica, Tropea Maria Rosaria, Privitera Anna, Tascetta Fabio, Puzzo Daniela, Salomone Salvatore, Drago Filippo, Leggio Gian Marco, Caraci Filippo

PS I/28

Age-related effects of melatonin on symptoms of autism spectrum disorder (ASD)

Nasini Sofia, Niero Francesca, Barattin Andrea Gaia, Passuello Valentina, Friso Lisa, Tidei Sara, Comai Stefano

PS I/29

Selective pharmacological inhibition of PDE5 and PDE4D enhances Tau phosphorylation at Ser214 residue

Fedele Ernesto, Villa Viviana, Montalto Giulia, Caudano Francesca, Ricciarelli Roberta, Fedele Ernesto

PS I/30

The NOP antagonist BTRX-246040 increases stress resilience in mice without affecting adult neurogenesis in the hippocampus

Ruzza Chiara, D'Oliveira da Silva Flora, Azevedo Neto Joaquim, Sturaro Chiara, Guarino Annunziata, Robert Cathaline, Gavioli Elaine C., Calo Girolamo

PS I/31

Effect of SUN11602, a bFGF mimetic, in an *in vivo* model of Traumatic Brain Injury

Bova Valentina, Ardizzone Alessio, Casili Giovanna, Cucinotta Laura, Campolo Michela, Cuzzocrea Salvatore, Esposito Emanuela

PS I/32

A role for metabotropic glutamate receptors 2/3 in the modulation of BBB function

Costantino Giuseppe, Spampinato Simona Federica, Trabace Luigia, Sortino Maria Angela, Corso Gaetano

PS I/33

Melatonin modulates microglia polarization: effects on neuronal vulnerability to β -amyloid

Caruso Grazia Ilaria, Merlo Sara, Sortino Maria Angela, Bonfilii Laura, Eleuteri Anna Maria, Spampinato Simona Federica

NERVOUS SYSTEM PHARMACOLOGY PS 34-49

Chairperson: **Fabio Fumagalli**

PS I/34

Antiproliferative effect of cannabinoids and CBD-derived compounds in human cell lines

Gallicchio Margherita, Binello Arianna, Barge Alessandro, Boscaro Valentina

PS I/35

Glutamatergic alterations in the prefrontal cortex of a rat model of resilience/vulnerability to acute FS-stress

Paoli Caterina, Sala Nathalie, Bonifacino Tiziana, Mingardi Jessica, Ieraci Alessandro, Milanese Marco, Forti Lia, Scuderi Caterina, Barbon Alessandro, Bonanno Giambattista, Popoli Maurizio, Musazzi Laura

PS I/36

Evaluation of the intranasal administration of novel A2A antagonists in the mice EAE model of chronic multiple sclerosis

Morozzi Martina, Borgonetti Vittoria, Calenda Sara, Sasia Chiara, Varano Flavia, Catarzi Daniela, Colotta Vittoria, Galeotti Nicoletta

PS I/37

Discontinuation after one year of treatment with anti-CGRP antibodies did not provide long-term sustained response

Iannone Luigi Francesco, Fattori Davide, Chiarugi Alberto, De Cesaris Francesco, Geppetti Pierangelo

PS I/38

Effect of oral sodium butyrate supplementation on paclitaxel-induced behavioral and intestinal dysfunctions

Cristiano Claudia, Cuozzo Mariarosaria, Coretti Lorena, Liguori Fabrizio Maria, Avagliano Carmen, Lembo Francesca, Aviello Gabriella, Russo Roberto

PS I/39

A *Drosophila* loss of function model to study the effects of atypical antipsychotic drugs

Guarato Giulia, Milani Deborah, Forgiarini Alessia, Masin Elisa Maria, Gumeni Sentiljana, Orso Genny

PS I/40

LRRK-2 inhibition by PF06447475 modulates neuronal damage and immunity after spinal cord trauma

Paterniti Irene, Filippone Alessia, Mannino Deborah, Cucinotta Laura, Esposito Emanuela, Campolo Michela

PS I/41

Naringenin modulates the autophagic lysosomal reformation *in vivo* and ameliorates the disease-related phenotypes in SPG4 and SPG15 *Drosophila* models of Hereditary Spastic Paraplegia

Guarato Giulia, Feltrin Sara, Dianin Francesca, Vantaggiato Chiara, Napoli Barbara, Gumeni Sentiljana, Orso Genny

PS I/42

The amyloid precursor protein tyrosine 682 phosphorylation as druggable signature in monocytes from Alzheimer's disease patients

Serafini Sara, Ferretti Gabriella, Monterosso Paola, Angiolillo Antonella, Frisardi Vincenzo, Maier Thorsten Jürgen, Di Costanzo Alfonso, Matrone Carmela

PS I/43

The anti-inflammatory effect immunoproteasome inhibitors in a neuro-inflammation model of Chemobrain

Cali Gabriella, Bauso Luana, Imbesi Chiara, Gasparo Irene, Mannino Federica, Ettari Roberta, Bitto Alessandra

PS I/44

Ellagic and punonic acids extracted from *Punica granata* reduce excitotoxicity and modulate autophagy in an *in vitro* model of Parkinson's disease

Imbesi Chiara, Mannino Federica, Pallio Giovanni, Irrera Natasha, Bitto Alessandra

PS I/45

Expression and functional role of Kv7 channels in brain endothelial cells

Celentano Camilla, Barrese Vincenzo, Carotenuto Lidia, Miceli Francesco, Taglialatela Maurizio

PS I/47

Deep Learning approach for the recognition of behaviours in Forced Swim Test

Della Valle Andrea, De Carlo Sara, Petetta Francesca, Ciccocioppo Roberto, Ubaldi Massimo

PS I/48

Identification of novel KNa1.1 channel blockers through *in silico* and *in vitro* screening

Carotenuto Lidia, Miceli Francesco, Barrese Vincenzo, Iraci Nunzio, Ostacolo Carmine, Bertamino Alessia, Campiglia Pietro, Taglialatela Maurizio

PS I/49

Hydrogen Sulfide inhalation as a new potential treatment to delay Alzheimer's Disease progression in 5xFAD mice

Pioli Stefano, De Fanti Andrea, Migliore Maria Rita, Daini Eleonora, Bodria Martina, Vilella Antonietta, Giuliani Daniela

NERVOUS SYSTEM PHARMACOLOGY PS 50-67

Chairperson: **Girolamo Calò**

PS I/50

KLVFF from A β aggregation to synaptic modulation: a preclinical study

Trebesova Hanna, Olivero Guendalina, Marchi Mario, Grilli Massimo

PS I/51

Role of dopamine D3 receptors, dysbindin, and their functional interaction on the expression of key genes for neuroplasticity in the mouse brain

Rivi Veronica, Benatti Cristina, Blom Joan, Pani Luca, Brunello Nicoletta, Drago Filippo, Papaleo Francesco, Torrisi Sebastiano, Salomone Salvatore, Leggio Gian Marco, Tascetta Fabio

PS I/52

α -GPS as a promising agent to protect hippocampal cholinergic neurons from aging-associated neurodegenerative processes

Vergassola Matteo, Zappelli Elisa, Ceccarelli Lorenzo, Mangano Giorgia, Zucchi Sara, Daniele Simona, Ragni Lorella, Martini Claudia

PS I/53

Extinction of traumatic memory in a chronic PTSD-like model is promoted by Social Buffering phenomenon

Blasi Eleonora, Soloperto Stefania, Campolongo Patrizia, Morena Maria

PS I/54

Environmental enrichment influences mouse hippocampal neuroinflammatory response

Rigillo Giovanna, Benatti Cristina, Toscano Ylenia, Tascetta Fabio, Pani Luca, Brunello Nicoletta, Alboni Silvia

PS I/55

Contraceptive drug, Nestorone, enhances stem cell-mediated remodeling of the stroke brain by dampening inflammation and rescuing mitochondria

Castelli Vanessa, Sitruk-Ware Regine, Lee Jea-Young, Cesare Patrizia, Borlongan Cesario, Volpe Anna Rita

PS I/56

The synergic stimulation of adenosine A_{2A}/A_{2B} receptors reduces cortical and striatal damage induced by middle cerebral artery occlusion in a rat model of transient brain ischemia

Dettori Ilaria, Bulli Irene, Coppi Elisabetta, Jacobson Kenneth A., Lee H., Pugliese Anna Maria, Pedata Felicità

PS I/57

Network Intervention Analysis: an innovative tool to investigate Symptom-Specific Treatment Effects in Major Depression and Bipolar Disorder

Guerrera Claudia Savia, Sarti Pierfrancesco, Varrasi Simone, Platania Giuseppe Alessio, Popovic Dina, Tascetta Fabio, Pani Luca, Brunello Nicoletta, Drago Filippo, Di Nuovo Santo, Colliva Chiara, Castellano Sabrina, Caraci Filippo, Blom Johanna MC

PS I/58

Early life stress exposure: a pattern of adaptation or vulnerability to the development of stress-related psychopathologies?

Di Cesare Benedetta, Pisaneschi Arianna, Gorga Martina, Mancini Giulia Federica, Morena Maria, Campolongo Patrizia

PS I/59

Preliminary investigation of the potential effects of a new selective dopamine D4 receptor (DRD4) antagonist on food consumption

Botticelli Luca, Micioni Di Bonaventura Emanuela, Einaudi Giacomo, Del Bello Fabio, Giorgioni Gianfabio, Pavletti Pegi, Piergentili Alessandro, Quaglia Wilma, Micioni Di Bonaventura Maria Vittoria, Cifani Carlo

PS I/60

Role of A_{2A} and A_{2B} adenosine receptors in myelination processes and ionic conductances in neuronal and oligodendroglial cells

Santalmassi Clara, Frulloni Lucia, Cherchi Federica, Venturini Martina, Magni Giada, Dettori Ilaria, Rossi Francesca, Colotta Vittoria, Catarzi Daniela, Varano Flavia, Pedata Felicità, Coppi Elisabetta, Pugliese Anna Maria

PS I/61

GATA3/KMT2A Complex by increasing H3K4-3me upregulates NCX3 transcription and contributes to ischemic preconditioning neuroprotection

Formisano Luigi, Guida Natascia, Serani Angelo, Mascolo Luigi, Cuomo Ornella, Serenella Anzilotti, Brancaccio Paola, Pignataro Giuseppe, Molinaro Pasquale, Annunziato Lucio

PS I/62

Effect of Sodium Butyrate on peripheral and central alterations induced by paclitaxel-based chemotherapy
Cuozzo Mariarosaria, Avagliano Carmen, Aviello Gabriella, Cristiano Claudia, Russo Roberto

PS I/63

OEA affects the acylethanolamides profiles in selected brain areas after acute systemic administration
Eramo Barbara, Friuli Marzia, Zahid Nisha, Gallelli Cristina Anna, Muccioli Giulio Giorgio, Romano Adele, Gaetani Silvana

PS I/65

Pharmacological modulation of AMPA receptors as a therapeutic strategy to counteract neuronal hyperexcitability and cognitive deficits in mouse models of cerebral amyloidosis
Leo Antonio, Bellingacci Laura, Mancini Andrea, Megaro Alfredo, Tallarico Martina, De Caro Carmen, Tozzi Alessandro, Di Filippo Massimiliano, Sciaccaluga Miriam, De Sarro Giovambattista, Russo Emilio, Costa Cinzia

PS I/66

Psilocybin mitigates the cognitive deficits observed in a rat model of Fragile X syndrome
Buzzelli Valeria, Carbone Emilia, Manduca Antonia, Rava Alessandro, Schiavi Sara, Trezza Viviana

PS I/67

The anti-oxidant and anti-inflammatory effects of *Ceratonia siliqua* may be exploited for neuroprotection
Guercio Gianluca, Mannino Federica, Imbesi Chiara, Pallio Giovanni, Squadrito Francesco, Bitto Alessandra, Irrera Natasha

BASIC AND CLINICAL PHARMACOLOGICAL RESEARCH PS 68-85

Chairpersons: **Giustino Orlando, Cristina Lanni**

PS I/68

A functional selectivity study at the mu-opioid receptor - EM-2 derivatives
Medjofack Djeufo Francine, Marconato Chantal, Malfacini Davide, Piekienka-Ciesielska Justyna, Janecka Anna, Calo' Girolamo

PS I/69

Novel biguanide derivatives exert anti-proliferative and anti-invasive effects in 3D models of patient-derived glioblastoma stem cells and in zebrafish xenografts
Barbieri Federica, Bosio Alessia G., Pattarozzi Alessandra, Tonelli Michele, Bajetto Adriana, Fiaschi Pietro, Mazzanti Michele, Florio Tullio, Barbieri Federica

PS I/70

Selected Growth Hormone Secretagogues (GHS) decrease mutant SOD1 toxicity in an *in vitro* model of amyotrophic lateral sclerosis

Meanti Ramona, Rizzi Laura, Bresciani Elena, Licata Martina, Molteni Laura, Locatelli Vittorio, Torsello Antonio

PS I/71

Troxerutin: a new option to target early stages of diabetic retinopathy?

Marchesi Nicoletta, Fahmideh Foroogh, Campagnoli Lucrezia Irene Maria, Barbieri Annalisa, Govoni Stefano, Pascale Alessia

PS I/72

Cytoprotective role of a novel hydroalcoholic extract of *Lens culinaria* against chemotherapeutic agents and glucocorticoid dexamethasone in murine and human cells

Antonacci Marina, Dibenedetto Jacopo Raffaele, Maqoud Fatima, Tricarico Domenico

PS I/73

Inflammatory, bioenergetic, and red-ox state in microglia acutely purified from SOD1G93A mice during disease progression: effects of lowering mGluR5 expression

Balbi Matilde, Bonifacino Tiziana, Ravera Silvia, Fenoglio Daniela, Altosole Tiziana, Leardi Riccardo, Milanese Marco, Filaci Gilberto, Bonanno Giambattista

PS I/74

The effectiveness of glucoraphanin administration in the beta-amyloid-induced depressive-like state in rats

Sikora Vladyslav, Tucci Paolo, Trabace Luigia

PS I/75

Sulforaphane and its metabolites protects PC12 HD-Q74 cells against the neurotoxicity induced by mutant huntingtin through the activation of Keap1/Nrf2/ARE Pathway

Pruccoli Letizia, Tarozzi Andrea

PS I/76

Prenatal stress exposure produces time-dependent changes of brain activation and alters emotional behavior in the adolescent offspring

Creutzberg Kerstin Camile, Begni Veronica, Cattaneo Annamaria, Riva Marco Andrea

PS I/77

Effects of a Histamine H3 receptor (H3R) antagonist-Nitric Oxide (NO) donor hybrid compound in a model of retinal ischemia/reperfusion in rabbit

Sgambellone Silvia, Lucarini Laura, Marri Silvia, Frank Annika, Reiner David, Khanfar Mohammad A, Masini Emanuela, Stark Holger

PS I/78

Nicotine-induced genetic and epigenetic modifications in primary human amniotic fluid stem cells

Milillo Cristina, Upadhyaya Prabin, Scorrano Vincenzo, Antonucci Ivana, Palumbo Erika, Ballerini Patrizia

PS I/79

Effects of a nitric oxide (NO)-donating prostaglandin analog in a model of ischemia/reperfusion induced by endothelin-1 in rabbits

Marri Silvia, Bastia Elena, Sgambellone Silvia, Brambilla Stefania, Galli Corinna, Masini Emanuela, Impagnatiello Francesco, Lucarini Laura

PS I/80

Evaluation of the gene response in a mouse model of Alzheimer's disease induced at different ages by intracerebroventricular injection of β -amyloid oligomers: searching for predictors

Sita Giulia, Graziosi Agnese, Morroni Fabiana, Corrieri Camilla, Cortelli Pietro, Hrelia Patrizia

PS I/82

Pharmacological characterization of novel pan-adenosine receptors partial agonists for promoting wound healing and tissue repair

Pasquini Silvia, Vincenzi Fabrizio, Dal Ben Diego, Catarzi Daniela, Varano Flavia, Colotta Vittoria, Varani Katia

PS I/83

Pharmacological modulation of lysosomal ionic machinery in preclinical models of amyotrophic lateral sclerosis (ALS)

Tedeschi Valentina, Sisalli Maria José, Valsecchi Valeria, Vinciguerra Antonio, Pignataro Giuseppe, Piccialli Ilaria, Pannaccione Anna, De Rosa Giuseppe, Secondo Agnese

PS I/84

Acute stress affects different forms of long-term recognition memory in a sex-dependent manner

Rizzo Silvia, Torrisi Sebastiano Alfio, Salomone Salvatore, Drago Filippo, Leggio Gian Marco

PS I/85

The induction of the activity-based anorexia is associated to the modulation of neuroinflammatory and oxidative balance mediators in the rat prefrontal cortex

D'Amelio Sabrina, Scherma Maria, Spero Vittoria, Shamshiri Ali, Camoglio Chiara, Dedoni Simona, Molteni Raffaella, Fadda Paola

BASIC AND CLINICAL PHARMACOLOGICAL RESEARCH PS 86-102

Chairperson: **Lara Testai**

PS I/86

Lifelong exposure to n-3 PUFA deficiency leads to anxiety-like effects in adolescent rats: impact of sex on immune modulation

Morgese Maria Grazia, Bove Maria, Dimonte Stefania, Trabace Luigia

PS I/87

Involvement of miR-135a-5p downregulation in acute and chronic stress response in the prefrontal cortex of rats

Mingardi Jessica, Tornese Paolo, Sala Nathalie, La Via Luca, Popoli Maurizio, Barbon Alessandro, Musazzi Laura

PS I/88

Oleoylethanolamide protects against renal fibrosis via suppressing the TGF- β /Smad and MAPK signaling pathways

Comella Federica, Lama Adriano, Pirozzi Claudio, Annunziata Chiara, Del Piano Filomena, Melini Stefania, Opallo Nicola, Lago Paz Francisca, Meli Rosaria, Mattace Raso Giuseppina

PS I/89

Investigating the role of calcium homeostasis and SOCE alterations in sarcopenia: potential benefits of supplementation with BCAA-based formulation in aged mice

Conte Elena, Mantuano Paola, Boccanegra Brigida, Cirmi Santa, Dinoi Giorgia, Imbrici Paola, Bianchini Gianluca, Aramini Andrea, Liantonio Antonella, De Luca Annamaria

PS I/90

Addressing the maturation of social-cognitive functions in C57BL6J mice: effects of ketamine
De Luca Angelina, Contarini Gabriella, Salomone Salvatore, Drago Filippo, Papaleo Francesco, Leggio Gian Marco

PS I/91

Anti-headache effects of cannabidiol in acute and chronic migraine-like conditions

Sturaro Chiara

PS I/92

Caffeine protects against retinal inflammation

Conti Federica, Lazzara Francesca, Romano Giovanni Luca, Platania Chiara Bianca Maria, Drago Filippo, Bucolo Claudio

PS I/93

A novel *in vitro* model of the hepatic microenvironment as useful tool to evaluate the antifibrotic effect of NADPH oxidases inhibitors

Zanotto Ilaria, Gabbia Daniela, Frion-Herrera Yahima, Carrara Maria, De Martin Sara

PS I/94

Stress-induced astroglial plasticity in a murine model of depressive-like behaviour: a target for pharmacological interventions?

Bondi Heather, Bortolotto Valeria, Novella Alessia, Canonico Pier Luigi, Grilli Mariagrazia

PS I/95

Chronic acetazolamide treatment ameliorates brain pathology and restores cognitive functions in a mouse model of Amyloid- β deposition

Provensi Gustavo, Rani Barbara, Costa Alessia, Casamenti Fiorella, Blandina Patrizio, Supuran Claudiu T., Passani M. Beatrice, Provensi Gustavo

PS I/96

NORMAST 3 counteracts glucose and lipid dysmetabolism in high-fat diet-induced obese mice

Melini Stefania, Lama Adriano, Del Piano Filomena, Opallo Nicola, Comella Federica, Annunziata Chiara, Giuseppina Mattace Raso, Meli Rosaria, Pirozzi Claudio

PS I/97

Influence of 17 β -estradiol on dysbindin-dependent cognitive dysfunction in mice

Geraci Federica, Laudani Samuele, De Luca Angelina, Rizzo Silvia, Salomone Salvatore, Papaleo Francesco, Drago Filippo, Leggio GianMarco

PS I/98

Label-free SERS method as a tool for the study of thiopurine drug pharmacokinetics in *in vitro* cellular models

Pagarin Sofia, Fornasaro Stefano, Raffaella Franca, Lucafò Marianna, Bonifacio Alois, Stocco Gabriele, Decorti Giuliana

PS I/99

Amelioration of steatosis and inflammation in obese high-fat-diet mice after treatment with MPEP, an mGlu5 receptor allosteric modulator

Di Pasqua Laura Giuseppina, Cagna Marta, Bosco Oriana, Totaro Maria, Croce Anna Clela, Nicoletti Ferdinando, Vairetti Mariapia, Ferrigno Andrea

PS I/100

Fluoxetine ecofriendly nanoemulsion enhances wound healing in diabetic rats: *in vivo* efficacy assessment

Privitera Anna, Alhakamy Nabil A., Caruso Giuseppe, Ahmed Osama A. A., Fahmy Usama A., Md Shadab, Mohamed Gamal A., Ibrahim Sabrin R. M., Eid Basma G., Abdel-Naim Ashraf B., Caraci Filippo

PS I/101

Impairment of self-care behavior is associated with differences in the transcriptomic profile of the Habenula in adult rats exposed to prenatal stress

Zonca Valentina, Mazzelli Monica, Lopizzo Nicola, Petrillo Giulia, Riva Marco Andrea, Cattaneo Annamaria

PS I/102

Structural and functional evidence for citicoline binding and modulation of 20S proteasome activity: Novel insights into its pro-proteostatic effect

Tundo Grazia Raffaella, Sbardella Diego, Oddone Francesco, Coletta Massimo, Graziani Grazia

BASIC AND CLINICAL PHARMACOLOGICAL RESEARCH PS 103-119

Chairperson: **Claudio Bucolo**

PS I/103

The Avalglucosidase alfa Phase 3 COMET Trial in Late-onset Pompe Disease Patients: efficacy and safety results after 97 weeks

Toscano Antonio, Kishnani Priya, Diaz-Manera Jordi, Kushlaf Hani, Ladha Shafeeq, Mozaffar Tahseen, Straub Volker, van der Ploeg Ans, Berger Kenneth, Clemens Paula, Chien Yin-Hsiu, Day John, Illarioshkin Sergey, Roberts Mark, Attarian Shahram, Carvalho Gerson, Chul Choi Young, Erdem-Özdamar Sevim, Goker-Alpan Ozlem, Kostera-Pruszczyk Anna, An Haack Kristina, Thibault Nathan, Zhou Tianyue, Dimachkie Mazen, Schoser Benedikt

PS I/104

Effects of physical exercise on pain and analgesic drugs use after mastectomy

Mannucci Carmen, Calapai Fabrizio, Puzzo Luisa, Vecchio Daniele Alfio, Blandino Rosario, Bova Giuseppe, Barbagallo Alessia, Ammendolia Ilaria, Cardia Luigi, Esposito Emanuela, Calapai Marco

PS I/105

Vulnerability or Resilience to Chronic Mild Stress: role of miRNAs and their targeted signalling

Mazzelli Monica, Cattane Nadia, Begni Veronica, Papp Mariusz, Cattaneo Annamaria, Riva Marco Andrea

PS I/106

Lurasidone treatment on female rats exposed to chronic mild stress: the potential role of inflammatory processes and microglia activation

Bottanelli Chiara, Begni Veronica, Papp Mariusz, Cattaneo Annamaria, Riva Marco Andrea

PS I/107

Scouting pathogenic variants of indoleamine 2,3-dioxygenase 1

Mondanelli Giada, Gargaro Marco, Ambrosino Sara, Rossini Sofia, Pallotta Maria Teresa, Macchiarulo Antonio, Mecucci Cristina, Orabona Ciriana

PS I/108

Intraspecific and interspecific empathetic behavioral responses

Petetta Francesca, Ciccocioppo Roberto

PS I/109

Extracellular vesicles enriched in PCSK9 are pro-atherogenic

Greco Maria Francesca

PS I/110

Patient-specific induced pluripotent stem cells as an *in vitro* model for primary immunodeficiencies: cytotoxic effects of JAK inhibitors and antiretrovirals of clinical relevance

Braidotti Stefania, Ferraro Rosalba Monica, Genova Elena, Giambuzzi Francesco, Tommasini Alberto, Tesser Alessandra, Decorti Giuliana, Giliani Silvia, Stocco Gabriele

PS I/111

Effect of PCSK9 inhibitors treatment on serum lipoprotein functions in subjects with familial hypercholesterolemia: a multi-lipid-center real-world evaluation

Palumbo Marcella, Adorni Maria Pia, Zimetti Francesca, Pavanello Chiara, Giammanco Antonina, Cefalù Angelo Baldassare, Noto Davide, Piro Salvatore, Pino Antonio, Aversa Maurizio, Calabresi Laura, Bernini Franco, Purrello Francesco, Scicali Roberto

PS I/112

Encapsulated cell therapy for frontotemporal dementia: long-term, stable and efficacious targeting of the striatum with progranulin and GDNF

Paolone Giovanna, Bertasini Chiara, El Hachiri Fatima E., Salzano Sara, Grisotto Jacopo, Silvestri Erica, Wahlberg Lars U, Lundkvist Johan, Paolone Giovanna

PS I/113

GILZ is required for Dexamethasone-mediated effect on hematopoietic stem and progenitor cell proliferation

Febo Marta, Viana de Barros Zenobio, Paglialunga Musetta, Bruscoli Stefano, Flamini Sara, Riccardi Carlo, Migliorati Graziella, Bereshchenko Oxana

PS I/114

Effects of post-natal lipopolysaccharide challenge on neuroinflammation in Wistar and epileptic WAG/Rij rats: gender-related behavioral and molecular alterations

Pirozzi Claudio, Melini Stefania, Lama Adriano, Del Piano Filomena, Opallo Nicola, Comella Federica, Annunziata Chiara, Mattace Raso Giuseppina, Meli Rosaria

PS I/115

Proprotein convertase Subtilisin/Kexin Type 9 (PCSK9) modulates cholesterol homeostasis and neuroinflammation in cell models of astrocytes and neurons

Papotti Bianca, Marchi Cinzia, Adorni Maria Pia, Giuliani Daniela, Radi Marco, Giannesi Lisa, Ugolotti Martina, Lupo Maria Giovanna, Ferri Nicola, Bernini Franco, Zimetti Francesca

PS I/116

Neuroprotective effect of a dietary supplement containing forskolin, homotaurine, spearmint extract and group B vitamins in a mouse model of acute glaucoma

Adornetto Annagrazia, Laganà Maria Luisa, Satriano Andrea, Licastro Ester, Rusciano Dario, Nucci Carlo, Bagetta Giacinto, Russo Rossella

PS I/117

Study of angiogenic profile in patients with NSCLC

Filippelli Arianna, Ciccone Valerio, Del Gaudio Cinzia, Simonis Vittoria, Bengala Carmelo, Scotti Vieri, Donnini Sandra

PS I/118

Effect of prenatal stress in adolescent rats: potential role of microglia

Petrillo Giulia, Begni Veronica, Creutzberg Kerstin Camille, Zonca Valentina, Mazzelli Monica, Orso Rodrigo, Wearick-Silva Luis Eduardo, Viola Thiago Wendt, Tractenberg Saulo Gantes, Grassi-Oliveira Rodrigo, Cattaneo Annamaria, Riva Marco Andrea

PS I/119

Central region-specific modulatory effects of vortioxetine on the NLRP3 inflammasome in a lipopolysaccharide-induced inflammation mouse model

Ciani Miriam, Benatti Cristina, Toscano Ylenia, Rivi Veronica, Blom Johanna Maria Catharina, Tascadda Fabio, Alboni Silvia, Brunello Nicoletta

BASIC AND CLINICAL PHARMACOLOGICAL RESEARCH PS 120-135

Chairperson: Mariagrazia Grilli

PS I/120

Single or repeated exposure to cannabidiol modulates BDNF expression in the rat prefrontal cortex and striatum

Mottarlini Francesca, Fumagalli Marco, Castillo Díaz Fernando, Piazza Stefano, Targa Giorgia, Sangiovanni Enrico, Pacchetti Barbara, Sodergren Mikael, Dell'Agli Mario, Fumagalli Fabio, Caffino Lucia

PS I/121

Effectiveness and safety of monoclonal antibodies for COVID-19 in a real-life experience during the COVID-19 pandemic in an Italian hub hospital

Collotta Debora, Degioanni Diletta, Grande Elisabetta, Bersia M.E., Aimaretti Eleonora, Rebora Monica, Fruttero Claudia, Collino Massimo

PS I/122

A retrospective analysis on anxiolytic, hypnotic-sedatives and antidepressants prescriptions in an Italian hub hospital during the Covid-19 Pandemic

Collotta Debora, Pennacino Giovanni, Porcietto Elisa, Cifani Carlo, Infante Lucia, Fruttero Claudia, Collino Massimo

PS I/123

A Retrospective analysis on pharmacological approaches to COVID-19 patients in an Italian hub hospital comparing first and second pandemic wave

Collotta Debora, Menardi Giovanni, Rinaudo Elisa, Infante Lucia, Del Bono V., Fenoglio L., Macagno P., Rebora Monica, Aimaretti Eleonora, Fruttero Claudia, Collino Massimo

PS I/124

Cannabidiol promotes social behavior in mice: study on mechanism of action

Bonini Sara, Premoli Marika, Mastinu Andrea, Maccarinelli Giuseppina, Memo Maurizio

PS I/125

The potent alpha2-adrenoceptor antagonist RS 79948 also inhibits dopamine D2-receptors

Concas Luca, Sagheddu Claudia, Aroni Sonia, Santoni Michele, Siddi Carlotta, Carli Marco, Pistis Marco, Gessa Gian Luigi, Devoto Paola, Frau Roberto

PS I/126

Influence of the alteration of the serotonergic system during perinatal periods on the development of psychiatric-like behaviors

Gallo Maria Teresa, Brivio Paola, Dolci Beatrice, Veronesi Filippo Umberto Tancredi, Miceli Eleonora, Fumagalli Fabio, Calabrese Francesca

PS I/127

A designer diet enriched in essential amino acids as a non-pharmacological treatment for cardiac hypertrophy in rodents

Ragni Maurizio, Greco Carolina Magdalen, Ruocco Chiara, Carullo Pierluigi, Kunder Franco Paolo, Felicetta Arianna, Larcher Veronica, Fiocca Alessandro, Wang Yibin, Valerio Alessandra, Condorelli Gianluigi, Nisoli Enzo

PS I/128

The antidepressant amitriptyline affects cell proliferation and modulate autophagy of human SH-SY5Y neuroblastoma cells

Laganà Maria Luisa, Satriano Andrea, Licastro Ester, Adornetto Annagrazia, Corasaniti Maria Tiziana, Bagetta Giacinto, Russo Rossella

PS I/129

Functional alterations in both hippocampal neural progenitor cells and astrocytes in a murine model of Alzheimer's disease

Bortolotto Valeria, Pagano Corinna Anais, Lim Dimitry, Tapella Laura, Dematteis Giulia, Canonico Pier Luigi, Grilli Mariagrazia

PS I/130

Amygdalar neuroplastic alterations in an experimental model of Anorexia Nervosa: focus on the BDNF system

Rizzi Beatrice, Mottarlini Francesca, Targa Giorgia, Fumagalli Fabio, Caffino Lucia

PS I/131

Deletion of the dopamine transporter perturbs the glutamatergic neurotransmission in the striatum

Mottarlini Francesca, Targa Giorgia, Caffino Lucia, Villers Agnès, Lovera Alessandro, Gainetdinov Raul, Ris Laurence, Leo Damiana, Fumagalli Fabio

PS I/132

The antioxidant response to an acute stress is negatively modulated by previous chronic stress and partially restored by lurasidone treatment in the rat central nervous system

Spero Vittoria, D'Amelio Sabrina, Paladini Maria Serena, Brivio Paola, Molteni Raffaella

PS I/133

Alteration of autophagic flux and PINK1/Parkin dependent mitophagy in a mouse model of glaucoma

Satriano Andrea, Laganà Maria Luisa, Adornetto Annagrazia, Morrone Luigi Antonio, Nucci Carlo, Bagetta Giacinto, Russo Rossella

PS I/134

A Palmitoylethanolamide producing *Lactobacillus paracasei* improves *Clostridium difficile* Toxin A-Induced Colitis

Corpetti Chiara, Esposito Giuseppe, Pesce Marcella, Seguella Luisa, Del Re Alessandro, Vincenzi Martina, Lattanzi Roberta, Lu Jie, Sanseverino Walter, Sarnelli Giovanni

PS I/135

Adolescent cocaine exposure alters recency memory and mTOR signaling in the prefrontal cortex

Castillo Diaz Fernando, Mottarlini Francesca, Targa Giorgia, Rizzi Beatrice, Fumagalli Fabio, Caffino Lucia

THURSDAY, NOVEMBER 17TH
from 19:00 to 20:30

POSTER SESSION II

REGULATORY ASPECTS AND DRUG POLICIES PS 1-15

Chairperson: **Carla Carnovale**

PS II/1

Voriconazole Therapeutic Drug Monitoring: a retrospective pilot study

Angelini Jacopo, Lo Re Francesco, Baraldo Massimo

PS II/2

Role of MTHFR-mediated dysmetabolism and endothelial progenitor cell (EPCs) dysfunction on correlation between atrial cardiomyopathy and predictive biomarkers of cryptogenic stroke

Desantis Vanessa, Sgarra Luca, Potenza Assunta Maria, Nacci Carmela, Scaringella Antonietta, Cicco Sebastiano, Solimando Antonio Giovanni, Vacca Angelo, Montagnani Monica

PS II/3

Cardiovascular risk in patients with Takayasu arteritis directly correlates with diastolic dysfunction and inflammatory cell infiltration in the vessel wall: a clinical, *ex vivo* and *in vitro* analysis

Desanti Vanessa, Cicco Sebastiano, Vacca Antonio, Solimando Antonio Giovanni, Cazzato Gerardo, Cirulli Anna, Susca Cecilia, Ingravallo Giuseppe, Ria Roberto, Montagnani Monica

PS II/4

Beneficial effects of MR120 in a preclinical model of chronic intestinal inflammation

Allodi Marika, Giorgio Carmine, Durante Joseph, Barbieri Francesca, Radi Marco, Zingrillo Francesca, Domenichini Giuseppe, Ballabeni Vigilio, Barocelli Elisabetta, Berton Simona

PS II/5

Guillan-Barré Syndrome following COVID-19 vaccines: analysis of the Vaccine Adverse Event Reporting System (VAERS) database

Gaio Mario, Zinzi Alessia, Riccardi Consiglia, Balzano Nunzia, Sullo Giuseppa Maria, Sportiello Liberata, Rafaniello Concetta, Rossi Francesco, Capuano Annalisa

PS II/6

Post-marketing safety of Onasemnogene Apeparvovec and Nusinersen in pediatric population: analysis of FAERS database

Zinzi Alessia, Gao Mario, Pentella Ciro, Liguori Valerio, Balzano Nunzia, Rafaniello Concetta, Rossi Francesco, Capuano Annalisa, di Mauro Gabriella

PS II/7

Anxiolytic- and antidepressant-like effects of growth hormone-releasing hormone antagonist MIA-602 in mice

Recinella Lucia, Chiavaroli Annalisa, Orlando Giustino, Ferrante Claudio, Veschi Serena, Cama Alessandro, Marconi Guya Diletta, Diomedea Francesca, Gesmundo Iacopo, Granata Riccarda, Cai Renzhi, Sha Wei, Schally Andrew V., Brunetti Luigi, Leone Sheila

PS II/8

Cortisol impairment of neural plasticity in human dopaminergic neurons derived from iPSCs is reverted by Ketamine

Collo Luigia Rinalda, Cavalleri Laura, Dassieni Irene, Marcotto Giulia Sofia, Zoli Michele, Millan Mark J., Merlo Pich Emilio, Collo Luigia Rinalda

PS II/9

Fenofibrate mitigates inflammation-induced functional alterations in the medial prefrontal cortex in a mouse model of Alzheimer's Disease

Mastio Andrea, Sagheddu Claudia, Santoni Michele, Mostallino Rafaela, Castelli Maria Paola, Pistis Marco

PS II/10

Systemic administration of blood-derived exosomes induced by remote ischemic post-conditioning ameliorates ischemic damage and neurological functions in rats by delivering a specific cluster of miRNAs

Cuomo Ornella, Cepparulo Pasquale, Brancaccio Paola, Vinciguerra Antonio, Annunziato Lucio, Pignataro Giuseppe

PS II/11

A *Crocus sativus* petal extract acts on macrophage cells preventing inflammatory responses and osteoclast formation

Belladonna Maria Laura, Orecchini Elena, Mondanelli Giada, Panfili Eleonora, Pallotta Maria Teresa, Volpi Claudia, Orabona Ciriana

PS II/12

Induced pluripotent stem cells (iPSCs)-derived pancreatic models as a powerful tool for pharmacological studies

Rispoli Paola, Genova Elena, Lucafò Marianna, Stocco Gabriele, Bramuzzo Matteo, Decorti Giuliana

PS II/13

Unmet needs of Parkinson's disease patients in Italy through the COVID-19 pandemic: results of a structured survey

Rossi Elena, Martini Stefano, Marino Franca, Cosentino Marco, Comi Cristoforo

PS II/14

Hepatic disorders linked to cannabidiol prescription

Calapai Fabrizio, Ammendolia Ilaria, Cardia Luigi, Salvo Francesco, Calapai Gioacchino, Mannucci Carmen

PS II/15

Effects of Resveratrol on macrophage polarization in Childhood Cancer Survivors

Tortora Chiara, Argenziano Maura, Marrapodi Maria Maddalena, Di Paola Alessandra, Rossi Francesca

REGULATORY ASPECTS AND DRUG POLICIES PS 16-30

Chairperson: **Cristina Scavone**

PS II/16

Did Covid-19 pandemic impact therapeutic continuity in chronic cardiovascular diseases? Analysis of administrative databases

Casula Manuela, Galimberti Federica, Iommi Marica, Olmastroni Elena, Rosa Simona, Catapano Alberico L., Tragni Elena, Poluzzi Elisabetta

PS II/17

Anti-Inflammatory and neuromodulatory effects induced by *Tanacetum parthenium* water extract
Chiavaroli Annalisa, Recinella Lucia, Acquaviva Alessandra, Di Simone Simonetta Cristina, Leone Sheila, Ferrante Claudio, Menghini Luigi, Orlando Giustino, Brunetti Luigi

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Gut microbiota alterations promote susceptibility to post-traumatic stress disorder
Laudani Samuele, Torrisi Sebastiano Alfio, Alboni Silvia, Benatti Cristina, Rivi Veronica, Fuochi Virginia, Furneri Pio Maria, Tascetta Fabio, Salomone Salvatore, Drago Filippo, Leggio Gian Marco

PS II/19

Supplementation with *Spirulina platensis* counteracts Advanced Glycation End products harmful effects in a murine model of metabolic derangement
Aimaretti Eleonora, Porcietto Elisa, Murzio Carlo, Ferreira Alves Gustavo, Mastrocola Raffaella, Rubeo Chiara, Einaudi Giacomo, Collotta Debora, Cifani Carlo, Arago Manuela, Collino Massimo

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Neuroprotective effect of Oleacein in 6-OHDA-stressed sh-SY5Y cells, an *in vitro* model of Parkinson's disease
Russo Caterina, Maugeri Alessandro, Musumeci Laura, Lombardo Giovanni Enrico, Cirmi Santa, Navarra Michele

PS II/21

A red grape juice extract counteracts Bisphenol a-induced vascular damage in human umbilical vein endothelial cells
Lombardo Giovanni Enrico, Russo Caterina, Musumeci Laura, Maugeri Alessandro, Cirmi Santa, Navarra Michele

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CDK4/6 inhibitors in metastatic breast cancer: pharmacogenetics of ADME genes to predict differences in plasmatic exposure and toxicity profiles
Roncato Rossana, Peruzzi Elena, Sofia Nuzzo, Lorenzo Gerratana, Maddalena Zinato, Elena De Mattia, Bianca Posocco, Soledad Ariana Poetto, Sara Gagno, Marco Orleni, Giovanni Canil, Noemi Milan, Jerry Polesel, Michele Bartoletti, Serena Corsetti, Puglisi Fabio, Giuseppe Toffoli, Erika Cecchin

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Effect of early social isolation on the vulnerability to develop alcohol-related behaviors in genetically-selected Marchigian Sardinian alcohol-preferring rats and non-preferring Wistar rats
Domi Esi, Benvenuti Federica, De Carlo Sara, Ubaldi Massimo, Soverchia Laura, Cannella Nazzareno, Massetti Sara, De Cillis Sofia Laura, Fattore Liana, Trezza Viviana, Romualdi Patrizia, Fumagalli Fabio, Ciccocioppo Roberto

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Valorisation of an Italian mountain variety of *Echinacea purpurea* (L.) Moench: a sustainable strategy for medicinal plant production
Di Sotto Antonella, Percaccio Ester, Zaccagnino Stefania, Acquaviva Alessandra, De Angelis Marta, Ferrante Claudio, Nencioni Lucia, Di Giacomo Silvia, Nicotra Giovanna, Di Sotto Antonella

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Cannabidiol inhibits SARS-CoV-2 spike (S) protein-induced cytotoxicity and inflammation through a PPAR γ -dependent TLR4/NLRP3/Caspase-1 signaling suppression in Caco-2 cell line

Palenca Irene, Corpetti Chiara, Seguela Luisa, Del Re Alessandro, Basili Franzin Silvia, Pesce Marcella, Sarnelli Giovanni, Esposito Giuseppe

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n AccessCase Report High-Intensity, Low-Frequency Pulsed Electromagnetic Field as an Odd Treatment in a Patient with Mixed Foot Ulcer

Rania Vincenzo, Vocca Cristina, Marcianò Gianmarco, Casarella Alessandro, Catarisano Luca, Basile Emanuele, Gallelli Luca, Palleria Caterina, Rita Citraro, De Sarro Giovambattista

PS II/27

Critical role of ERO1 α in the regulation of Ca²⁺-dependent mitochondrial superoxide formation induced by arsenite

Guidarelli Andrea, Spina Andrea, Zito Ester, Fiorani Mara, Cantoni Orazio

PS II/28

Anti-inflammatory and neuroprotective effects of Oleoylethanolamide in a rat model of diet-induced obesity

Zahid Nisha, Friuli Marzia, Eramo Barbara, Gaetani Silvana, Romano Adele

PS II/29

Pharmacology of kappa opioid receptors: novel assays and ligands

Malfacini Davide, Sturaro Chiara, Argentieri Michela, Djeujo Francine M., Marzola Erika, Albanese Valentina, Ruzza Chiara, Guerrini Remo, Calo' Girolamo, Molinari Paola

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Effects of drugs targeting substance P on dysphagia and aspiration pneumonia: real-world data analysis from the FAERS database and systematic review

Guarnieri Greta, Pizzorni Nicole, Battini Vera, Rocca Sara, Bombelli Anna, Mosini Giulia, Gringeri Michele, Radice Sonia, Clementi Emilio, Carnovale Carla

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Chairperson: **Zito Ester**

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TGF- β 1 induces the expression of CD73 in human melanoma cells

Orlando Lavinia, Giraulo Caterina, Belvedere Raffaella, Petrella Antonello, Morello Silvana

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Thrombocytopenia induced by panitumumab in a patient with colorectal cancer

Pasquariello Stefano, Clavarezza Matteo, Piredda Sabrina, De Censi Andrea, Mattioli Francesca

PS II/33

Exploiting the role of NAMPT (nicotinamide phosphoribosyltransferase) in tumoral angiogenesis

Moro Marianna, Ciccone Valerio, Donnini Sandra, Ziche Marina, Genazzani Armando, Grolla Ambra

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NAMPT-induced breast cancer cell reprogramming towards an invasive and metastatic phenotype

Balestrero Federica Carolina, Grolla Ambra, Condorelli Fabrizio, Genazzani Armando

PS II/35

A machine learning and multi-target QSAR approach for the discovery of drugs for hematological cancers

Pellicioni Valentina, Halder Amit Kumar, Marfia Gustavo, Dias Soeiro Cordeiro Maria Natalia, Fimognari Carmela

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Perampanel in Glioblastoma: an *in vitro* study and clinical perspective

Stella Manuela, Baiardi Giammarco, Cameran Caviglia Michela, Piras Fabio, Bosio Alessia, Robbiano Luigi, Mattioli Francesca, Barbieri Federica, Florio Tullio

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New Eph antagonists discriminating between Eph-As and Eph-Bs classes

Ferrari Francesca Romana, Zappia Alfonso, Barocelli Elisabetta, Ballabeni Vigilio, Bertoni Simona, Castelli Riccardo, Guidetti Lorenzo, Lodola Alessio, Corrado Miriam, Giorgio Carmine, Tognolini Massimiliano

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Pharmacological characterization of new compounds aimed at inhibiting eph-ephrin interaction in glioblastoma

Zappia Alfonso, Ferrari Francesca Romana, Barocelli Elisabetta, Ballabeni Vigilio, Bertoni Simona, Castelli Riccardo, Guidetti Lorenzo, Lodola Alessio, Corrado Miriam, Giorgio Carmine, Tognolini Massimiliano

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Building the pharmacological bases for an all-oral, low-toxic, domiciliary approach to T-cell lymphomas in the pandemic era

Banchi Marta, Orlandi Paola, Fini Elisabetta, Cox Maria Christina, Bocci Guido

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Cardiotoxic effects of Doxorubicin and Trastuzumab sequential administration: an *in vitro* study

Pecoraro Michela, Marzocco Stefania, Popolo Ada

PS II/41

Characterization of exosomal miR-31-5p in thyroid cancer cells

Capriglione Francesca, Maggisano Valentina, Verrienti Antonella, Russo Diego, Sponziello Marialuisa, Pecce Valeria, Durante Cosimo, Bulotta Stefania, Celano Marilena

PS II/42

Positive feedback of apoptosis and autophagy pathways by sodium propionate to control glioblastoma progression through PPAR γ signaling: correlating *in vitro* and *in vivo* observations

Filippone Alessia, Lanza Marika, Casili Giovanna, Campolo Michela, Scuderi Sarah Adriana, Mannino Deborah, Cuzzocrea Salvatore, Esposito Emanuela

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Effect of tryptophan metabolism INHIBITION on human endothelial cells proliferation

Cecchi Marta, Silvano Angela, Pelli Giulia, Parenti Astrid

PS II/44

Sulforaphane causes cell cycle arrest and apoptosis in human glioblastoma U87MG and U373MG cell lines under hypoxic conditions

Graziosi Agnese, Sita Giulia, Hrelia Patrizia, Morroni Fabiana

PS II/45

Endogenous and exogenous hydrogen sulfide suppresses growth of human urothelial carcinoma cell lines

Panza Elisabetta, Bello Ivana, Smimmo Martina, Brancaleone Vincenzo, Mitidieri Emma, Esposito Erika, Bucci Mariarosaria, Cirino Giuseppe, Sorrentino Raffaella, d'Emmanuele di Villa Bianca Roberta

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K-RAS as a new pharmacological target for the treatment of oral squamous cell carcinoma (OSCC)

Mannino Deborah, Filippone Alessia, Basilotta Rossella, Campolo Michela, Esposito Emanuela

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Pharmacological evaluation of novel microtubule destabilizing agents

Foroutan Arash, Galli Ubaldina, Grolla Ambra A., Travelli Cristina, Tron Gian Cesare, Genazzani Armando A.

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GSK343, an inhibitor of EZH2, reduces glioblastoma progression through inflammatory and apoptosis processes modulation

Scuderi Sarah Adriana, Lanza Marika, Bova Valentina, Paterniti Irene, Esposito Emanuela

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Drug-drug interactions between pazopanib and proton pump inhibitors may significantly affect clinical outcome of patients affected by metastatic renal cell carcinoma

Crucitta Stefania, Del Re Marzia, Brighi Nicole, Rizzo Mimma, Paolieri Federico, Rebuzzi Sara Elena, Beninato Teresa, Mercinelli Chiara, Gri Nicole, Puglisi Sara, Verzoni Elena, Procopio Giuseppe, Fornarini Giuseppe, Galli Luca, Porta Camillo, De Giorgi Ugo, Danesi Romano

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An immature cellular prion protein isoform activates the canonical Wnt/ β -catenin pathway to sustain glioblastoma cell stemness

Dellacacagrande Irene, Corsaro Alessandro, Bosio Alessia Graziana, Thellung Stefano, Florio Tullio

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The correlation between Prostaglandin E2 and ERK5 modulates the behavior of NSCLC cells
Filippelli Arianna, Ciccone Valerio, Simonis Vittoria, Del Gaudio Cinzia, Rovida Elisabetta, Donnini Sandra

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Clinical involvement of Dickkopf protein-related protein 3 (Dkk-3) and Prolyl oligopeptidase in Glioblastoma multiforme tumor progression and in metastasis
Esposito Emanuela, Casili Giovanna, Caffo Maria, Campolo Michela, Paterniti Irene, Cuzzocrea Salvatore

PS II/53

CYP2D6, CYP2C8 and CYP1A2 pharmacogenetics and pharmacological interactions predict imatinib plasmatic exposure in GIST patients
Dalle Fratte Chiara, Sara Gagno, Rossana Roncato, Jerry Polesel, Martina Zanchetta, Mauro Buzzo, Bianca Posocco, Elena De Mattia, Rachele Borsatti, Fabio Puglisi, Luisa Foltran, Michela Guardascione, Angela Buonadonna, Erika Cecchin and Giuseppe Toffoli

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Chairperson: **Roberta D'Emmanuele di Villa Bianca**

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The signaling function of IDO1 incites the malignant progression of mouse B16 melanoma
Orabona Ciriana, Orecchini Elena, Pallotta Maria Teresa, Volpi Claudia, Belladonna Maria Laura, Mondanelli Giada

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Improving the prediction of permeability and anti-inflammatory effects of drugs in the colon
Parente Inês, Rubes Nicola, Gaiani Federica, de'Angelis Gian Luigi, Barocelli Elisabetta, Bertoni Simona

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Characterization of the acetylation of cyclooxygenase-isozymes and targeted lipidomics of eicosanoids in platelets and colon cancer cells by the new Aspirin formulation IP1867B versus Aspirin *in vitro*
Hofling Ulrika, Tacconelli Stefania, Contursi Annalisa, Bruno Annalisa, Mucci Matteo, Ballerini Patrizia, Cohen Simon, Patrignani Paola

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Leukocyte Integrin Antagonists as a promising option to tackle inflammatory diseases
Baiula Monica, Maurizio Andrea, Giraldi Valentina, Giacomini Daria, Gentilucci Luca, Spampinato Santi

PS II/58

Anti-inflammatory effects of synthetic peptides based on Glucocorticoid Induced Leucine Zipper (GILZ) protein for the treatment of inflammatory bowel diseases (IBD)
Paglalunga Musetta, Febo Marta, Flamini Sara, Bereshchenko Oxana, Ronchetti Simona, Ricci Erika, Riccardi Carlo, Migliorati Graziella, Bruscoli Stefano

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Both epacadostat and navoximod affect the IDO1 noncatalytic function

Pallotta Maria Teresa, Panfilì Eleonora, Orabona Ciriana, Mondanelli Giada, Volpi Claudia, Belladonna Maria Laura

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DSS and beyond: gut-to-brain communication in a model of inflammatory bowel disease

Liguori Fabrizio Maria, Cristiano Claudia, Russo Roberto, D'Agostino Giuseppe, Aviello Gabriella

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Immunoregulatory properties of breast milk: role of mesenchymal stromal cells and cannabinoid receptor type 2

Di Paola Alessandra, Tortora Chiara, Marrapodi Maria Maddalena, Argenziano Maura, Capristo Carlo, Rossi Francesca

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Alteration of osteoclast activity in childhood cancer survivors: role of iron and of CB2/TRPV1 receptors

Tortora Chiara, Di Paola Alessandra, Marrapodi Maria Maddalena, Argenziano Maura, Rossi Francesca

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Pharmacological approaches to improve thymic regeneration in cancer patients

Genah Shirley, Cardinale Antonella, Pellegrino Marsha, Rosichini Marco, Flamini Sara, De Crespin de Billy Emmanuel, Locatelli Franco, Velardi Enrico

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The dual function of Indoleamine 2,3-dioxygenase 1 (IDO1) in human cancer

Rossini Sofia, Mondanelli Giada, Pallotta Maria Teresa, Suvieri Chiara, Volpi Claudia, Murray Peter J., Orabona Ciriana

PS II/65

Wolfram syndrome is associated with an imbalance of the immune system

Panfilì Eleonora, Mondanelli Giada, Orabona Ciriana, Belladonna Maria Laura, Gargaro Marco, Fallarino Francesca, Pallotta Maria Teresa

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Effect of lycopene in an experimental model of osteoblast impairment using hydrogen peroxide

Gasparo Irene, Mannino Federica, Irrera Natasha, Bitto Alessandra

PS II/67

New inhibitors of NLRP3 inflammasome activation: pharmacological characterization in differentiated THP-1

Boscaro Valentina, Gastaldi Simone, Blua Federica, Bertinaria Massimo, Gallicchio Margherita

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Effect of cannabidiol on human peripheral blood mononuclear cells and CD4+ T cells: relevance for neuropathic pain

Martini Stefano, Furguele Alessia, Marino Franca, Rasini Emanuela, Legnaro Massimiliano, Luini Alessandra, Albizzati Maria Giulia, Sodergren Mikael Hans, Pacchetti Barbara, Cosentino Marco

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Possible involvement of hydrogen sulfide in the therapeutical effects associated to clodronate therapy
Montanaro Rosangela, D'Addona Alessio, Izzo Andrea, Ruosi Carlo, Brancaleone Vincenzo

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AhR activation by the DIETARY ligand ZEAXANTHIN DIPALMITATE promotes anti-inflammatory functions
Pieroni Benedetta, Manni Giorgia, Scalisi Giulia, Mencarelli Giulia, Ricciuti Doriana, Cossignani Lina, Gargaro Marco, Fallarino Francesca

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Small molecule modulators of prion protein (PrPc) in dendritic cells regulate inflammatory responses in a model of Multiple Sclerosis

Manni Giorgia, Manfroni Giuseppe, Barreca Maria Letizia, Gargaro Marco, Scalisi Giulia, Mencarelli Giulia, Ricciuti Doriana, Pieroni Benedetta, Massignan Tania, Biasini Emiliano, Fallarino Francesca

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Sorghum protects intestinal epithelial cells in inflammatory conditions by regulating oxidative stress and restoring intestinal barrier function

Rapa Shara Francesca, Pepe Giacomo, Magliocca Giorgia, Autore Giuseppina, Campiglia Pietro, Marzocco Stefania

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Dissecting dendritic cell subsets as key to installing tolerance to FVIII in hemophilia A

Gargaro Marco, Scalisi Giulia, Manni Giorgia, Ricciuti Doriana, Mencarelli Giulia, Pieroni Benedetta, Murphy Kenneth M., Fallarino Francesca

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Immunomodulatory effects of *Pelargonium sidoides* DC and Resveratrol combination on macrophage cells

Magliocca Giorgia, Cerciello Andrea, Bagnulo Antonino, Di Maio Umberto, Autore Giuseppina, Marzocco Stefania

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Cystathionine- β -synthase/nitric oxide signaling drives L-cysteine-induced inflammation in mouse hind paw

Mitidieri Emma, Valentina Vellecco, Turnaturi Carlotta, Esposito Erika, Marigliano Noemi, Cirino Giuseppe, Bucci Mariarosaria, Sorrentino Raffaella, d'Emmanuele di Villa Bianca Roberta

PS II/76

N-acyl taurines, new endogenous lipid messengers, inhibit macrophages mediate-inflammatory response

De Cicco Paola, Iannotti Fabio, Nani Maria Francesca, Romano Barbara, Capasso Raffaele, Di Marzo Vincenzo, Izzo Angelo A., Borrelli Francesca

**PHARMACOVIGILANCE, PHARMACOEPIDEMIOLOGY,
PHARMACOECONOMICS AND REAL WORLD EVIDENCE (RWE) PS 77-91**

Chairperson: **Carlo Piccinni**

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Serious adverse drug reactions to antineoplastic drugs in women: a regional pharmacovigilance analysis

Ruffolo Livia, Naturale Maria Diana, Leo Antonio, Palleria Caterina, Veraldi Marianna, Scarpelli Rita Francesca, Casarella Alessandro, Muraca Lucia, De Francesco Adele Emanuela, Piro Brunella, De Sarro Giovambattista

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The local pharmacy as a study centre for epidemiological collection and analysis data: the pharmacist experience during pandemic at ASL BT, Puglia

Dibenedetto Jacopo Raffaele, Cannone Domenico, Antonacci Marina, Tricarico Domenico

PS II/79

Adherence to oral antidiabetic therapy in patients with type 2 diabetes: a systematic review and meta-analysis

Piragine Eugenia, Petri Davide, Martelli Alma, Lucenteforte Ersilia, Calderone Vincenzo

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Medication adherence trajectory methods in pharmacoepidemiology: a scoping review

Tillati Silvia, Belleudi Valeria, Kirchmayer Ursula, Giometto Sabrina, Mitrova Zuzava, Gini Rosa, Lucenteforte Ersilia

PS II/81

Evaluation of mRNA COVID-19 vaccines in adolescents: analysis of European Pharmacovigilance Reporting Systems EudraVigilance

Liguori Valerio, Ruggiero Rosanna, Pentella Ciro, Balzano Nunzia, Gaio Mario, Sportiello Liberata, Rossi Francesco, Capuano Annalisa

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COVID-19 vaccines and Reproductive Disorders: an analysis of the European Database EudraVigilance

Riccardi Consiglia, Zinzi Alessia, Gaio Mario, Balzano Nunzia, Pentella Ciro, Liguori Valerio, Di Napoli Raffaella, Rafaniello Concetta, Rossi Francesco, Capuano Annalisa

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Postmarketing reports of lack of efficacy: an analysis of spontaneous reports at the University Hospital of Catania

Gozzo Lucia, Brancati Serena, Vitale Daniela Cristina, Longo Laura, Ruscica Rosy, Oteri Alessandro, Drago Filippo

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Covid-19 vaccines and hypertension: Vigibase® data and evidence from Real-World Studies

Bonaso Marco, Moretti Ugo, Valdiserra Giulia, Cappello Emiliano, Convertino Irma, Ferraro Sara, Tuccori Marco

PS II/85

A signal of acquired haemophilia associated with COVID-19 vaccination: a disproportionality analysis and a systematic case review

Cappello Emiliano, Franchini Massimo, Valdiserra Giulia, Bonaso Marco, Moretti Ugo, Focosi Daniele, Tuccori Marco

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Maternal, fetal, and neonatal outcomes among pregnant women receiving COVID-19 vaccination: the Preg-Co-Vax Study

Fraenza Federica, Scavone Cristina, di Mauro Gabriella, Ruggiero Rosanna, Di Napoli Raffaella, Rafaniello Concetta, Sullo Maria Giuseppa, Rossi Francesco, Sportiello Liberata, Capuano Annalisa

PS II/87

Capillary Leak Syndrome and COVID-19 vaccines: an analysis of the European Spontaneous Reporting System EudraVigilance

Di Napoli Raffaella, Ruggiero Rosanna, Balzano Nunzia, Mascolo Annamaria, Rafaniello Concetta, Sportiello Liberata, Rossi Francesco, Capuano Annalisa

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Use of biological drugs for psoriasis: a drug-utilization study using Tuscan administrative databanks

Giometto Sabrina, Tillati Silvia, Baglietto Laura, De Bortoli Nicola, Mosca Marta, Conte Marco, Tuccori Marco, Gini Rosa, Lucenteforte Ersilia

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Drug-utilization and healthcare facilities use in patients with ulcerative colitis treated with biologic therapy. Data of healthcare administrative database of Tuscany: results from MICHELANGELO study

Ferraro Sara, Paoletti Olga, Convertino Irma, Giometto Sabrina, Tillati Silvia, Cappello Emiliano, Valdiserra Giulia, Bonaso Marco, Bartolini Claudia, Lorenzoni Valentina, Turchetti Giuseppe, Fornai Matteo, Gini Rosa, Lucenteforte Ersilia, Tuccori Marco

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Safety assessment of biologics for Immune-Mediated Inflammatory Diseases using the Italian VALORE Healthcare Database Network and the National Spontaneous Reporting System

Benoni Roberto, Ingrasciotta Ylenia, Ferrajolo Carmen, Ientile Valentina, Fiore Elena Sofia, Arzenton Elena, Cavazzana Anna, Biasi Valeria, Rossi Paola, Ejlli Lucian, Belleudi Valeria, Poggi Francesca, Solfrini Valentina, Puccini Aurora, Trifirò Gianluca

PS II/91

Inflammasome Targeted Therapy in Pregnancy: new insights from an analysis of Real-World data from the FAERS Database and a Systematic Review

Mosini Giulia, Carnovale Carla, Tombetti Enrico, Battini Vera, Radice Sonia, Nivuori Mariangela, Negro Enrica, Tamanini Silvia, Brucato Antonio, Clementi Emilio

**PHARMACOVIGILANCE, PHARMACOEPIDEMIOLOGY,
PHARMACOECONOMICS AND REAL WORLD EVIDENCE (RWE) PS 92-106**

Chairperson: **Elena Arzenton**

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Adverse drug reactions in the clinical practice in an Italian allergy unit: ALLERG-RAF retrospective study

Abate Andrea, Rossini Elisa, Cinquini Massimo, Sigala Sandra, Lodi Rizzini Fabio

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Abnormal automatic movements after dexmedetomidine administration in a newborn: a case report

Ilardi Laura, Agliardi Stefano, Proto Alice, Pani Arianna, Scaglione Francesco, Martinelli Stefano

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Cardiac adverse events after COVID-19 vaccination: an analysis of European spontaneous reporting data

Ruggiero Rosanna, Stelitano Barbara, di Mauro Gabriella, Mascolo Annamaria, Scavone Cristina, Sportiello Liberata, Rossi Francesco, Capuano Annalisa

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Peripheral Neuropathies related to Immune Checkpoint Inhibitors: an Analysis of the European pharmacovigilance database Eudravigilance

Balzano Nunzia, Ruggiero Rosanna, Di Napoli Raffaella, Mascolo Annamaria, Scavone Cristina, Rafaniello Concetta, Rossi Francesco, Capuano Annalisa

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SGLT2-Is and GLP-1 RAs in T2DM patients: preliminary data from an Ordinary Clinical Practice Study

Cicala Giuseppe, Messineo Angela, Barbieri Maria Antonietta, Arcoraci Vincenzo, Mandraffino Giuseppe, Spina Edoardo

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Meta-analysis of randomized controlled trials comparing the impact of lipid-lowering therapies on C-reactive protein levels

Xie Sining, Galimberti Federica, Olmastroni Elena, Casula Manuela, Catapano Alberico L.

PS II/98

Algorithm to detect type 2 diabetes mellitus disease using claims data from a general population from Southern Italy

Vitturi Giacomo, Ingrasciotta Ylenia, L'Abbate Luca, Ientile Valentina, Tari Michele, Trifirò Gianluca

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Real-world evidence from administrative healthcare data of newly pomalidomide users from 2016 to 2019

Calabria Silvia, Ronconi Giulia, Dondi Letizia, Piccinni Carlo, Pedrini Antonella, Dondi Leonardo, Esposito Immacolata, Addesi Alice, Maggioni Aldo Pietro, Martini Nello

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Implementation of Pharmacogenetics, Therapeutic Drug Monitoring and the study of Drug-Drug interactions in an active pharmacovigilance approach as a tool for optimising prescribing and minimising the risk of ADRs in oral cancer drug therapy

Peruzzi Elena, Roncato Rossana, Nuzzo Sofia, De Mattia Elena, Milan Noemi, Gagno Sara, Posocco Bianca, Orleni Marco, Canil Giovanni, Polesel Jerry, Corsetti Serena, Bartoletti Michele, Gerratana Lorenzo, Puglisi Fabio, Toffoli Giuseppe, Cecchin Erika

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Adherence trajectories to biological treatments in patients with inflammatory bowel diseases: a pilot study from Sicily region (Italy)

Tanaglia Matilde, Mameli Elena, Giometto Sabrina, Ientile Valentina, Ingrasciotta Ylenia, Benoni Roberto, Fiore Elena Sofia, Allotta Alessandra, Scondotto Salvatore, Lucenteforte Ersilia, Trifirò Gianluca

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Real-world evidence of newly vismodegib users through administrative healthcare data from 2015 to 2019

Calabria Silvia, Ronconi Giulia, Dondi Letizia, Piccinni Carlo, Pedrini Antonella, Dondi Leonardo, Esposito Immacolata, Addesi Alice, Maggioni Aldo Pietro, Martini Nello

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Infliximab treatment and switching in Inflammatory Bowel Disease: a seven years' experience in a Hospital of ULSS2 Marca Trevigiana

Scanduzzi Piovesan Tatiana, Bacchetto Francesca Maria, Sartor Maria, Bastarolo Desirée

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Safety profile of Tyrosine Kinase Inhibitors used in Non-Small-Cell Lung Cancer: an analysis from The Italian Pharmacovigilance Database

Sorbara Emanuela Elisa, Barbieri Maria Antonietta, Cicala Giuseppe, Santoro Vincenza, Cutroneo Paola Maria, Franchina Tindara, Santaripa Mariacarmela, Silvestris Nicola, Spina Edoardo

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Assessment of medication adherence and persistence among patients on antithyroid drug therapy in the ASL TO4 Regione Piemonte (Italy): a retrospective longitudinal cohort study

Miglio Gianluca, Armando Lucrezia Greta, Baroetto Parisi Raffaella, Remani Elisa, Esiliato Mariangela, Rolando Cristina, Diarassouba Abdoulaye, Cena Clara

PS II/106

Clinical relevance and safety in clinical practice of PCSK9 inhibitors: An Italian prospective pharmacovigilance study

Tallarico Martina, Gagliardi Agnese, Palleria Caterina, De Sarro Caterina, Papadopoli Rosa, Pileggi Claudia, Leo Antonio, De Sarro Giovambattista

**PHARMACOVIGILANCE, PHARMACOEPIDEMOLOGY,
PHARMACOECONOMICS AND REAL WORLD EVIDENCE (RWE) PS 107-121**

Chairperson: Elisabetta Poluzzi

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Gonadotropin-releasing hormone analog treatment in children with idiopathic central precocious puberty: a pharmacovigilance study in a pediatric population

Nasso Chiara, Valenzise Mariella, Squadrito Violetta, Scarfone Alessandro, Rottura Michelangelo, Giorgi Domenico Antonio, Pirrotta Igor, Irrera Natasha, Arcoraci Vincenzo, Squadrito Francesco

PS II/108

Safety Profile of Antiviral Therapies for the Early Treatment/Prevention of COVID-19: Analysis of the International Pharmacovigilance Database VigiBase®

Bellitto Chiara, Ciccimarra Francesco, Arzenton Elena, Luxi Nicoletta, Cutroneo Paola Maria, Poluzzi Elisabetta, Raschi Emanuel, Moretti Gianluca, Trifirò Gianluca

PS II/109

A vulnerability index to predict COVID-19 severity and foster an equitable allocation of vaccine: an urgent need for an update due to COVID-19 vaccination

Marconi Ettore, Rossi Alessandro, Grattagliano Ignazio, Cricelli Claudio, Lapi Francesco

PS II/110

Urinary tract infections in paediatric patients and antibiotic resistance. Interference of antibiotic past and short-term outcomes: a retrospective observational study

Scarfone Alessandro, Nasso Chiara, Squadrito Violetta, Rottura Michelangelo, Giorgi Domenico Antonio, Pirrotta Igor, Irrera Natasha, Chimenz Roberto, Arcoraci Vincenzo, Squadrito Francesco

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The scientific value of the aggregate data: Real World Data in treatment of multiple sclerosis

Brachet Cota Myriam, Guidi Maria Francesca, Zinetti Elena Caterina

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Safety profile of monoclonal antibodies approved for migraine: an analysis from the European spontaneous adverse event reporting system

Barbieri Maria Antonietta, Sorbara Emanuela Elisa, Cicala Giuseppe, Cutroneo Paola Maria, Spina Edoardo

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High Cardiovascular Risk Management in Hypertension Patients in General Practice:
A Focus on Inappropriate Drugs Prescriptions

Rottura Michelangelo, Drago Selene Francesca Anna, Molonia Antonino, Nasso Chiara, Giorgi Domenico Antonio, Marino Sebastiano, Scoglio Riccardo, Imbalzano Egidio, Squadrito Francesco, Arcoraci Vincenzo

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Use of immunosuppressive therapies: complex post-transplant clinical management and complications related to their use

Melis Silvia, Ferrari Alessandra, Deidda Arianna, Stochino Maria Erminia, Pellecchia Michela, Sanna Giustina

PS II/115

Metabolic Syndrome Management in the Hospital Setting: A Focus on use of Drugs in Older Patients

Molonia Antonino, Giorgi Domenico Antonio, Rottura Michelangelo, Drago Selene Francesca Anna, Imbalzano Egidio, Squadrito Francesco, Arcoraci Vincenzo, Corrao Salvatore

PS II/116

Use of Anti-Obesity Drugs in Older Hospitalized Patients: a Retrospective Observational Study from the RePoSi Register

Giorgi Domenico Antonio, Rottura Michelangelo, Molonia Antonino, Drago Selene Francesca Anna, Imbalzano Egidio, Squadrito Francesco, Arcoraci Vincenzo, Corrao Salvatore

PS II/117

Real-word trends and patterns of psychiatric medication use in the year before and after a diagnosis of cluster B personality disorder in Quebec, Canada

Lunghi Carlotta, Cailhol Lionel, Massamba Victoria, Laouan Sidi Elhadji A., Sirois Caroline, Rahme Elham, Rochette Louis, Renaud Suzanne, Villeneuve Evens, Koch Marion, Biskin Robert, Martineau Cathy, Vincent Philippe, David Pierre, Lesage Alain

PS II/118

Prescription Appropriateness of Drugs for Peptic Ulcer and Gastro-Esophageal Reflux Disease: Baseline Assessment in the LAPTOP-PPI Cluster Randomized Trial

Franchi Carlotta, Casula Manuela, Molinari Giulia, Mucherino Sara, Orlando Valentina, Menditto Enrica, Ardoino Ilaria

PS II/119

Management of Benign Prostatic Obstruction-Associated Lower Urinary Symptoms in the ASL TO4 Regione Piemonte (Italy): Prescription Behaviour and Twelve-Months Medication Persistence

Miglio Gianluca, Armando Lucrezia Greta, Baroetto Parisi Raffaella, Remani Elisa, Esiliato Mariangela, Rolando Cristina, Vinciguerra Valeria, Diarassouba Abdoulaye, Cena Clara

PS II/120

The clinical risk associated with look-alike/sound-alike (LASA) drugs: results of a survey proposed to the Care Units of the University-Hospital of Padova

Libralato Monica, De Toni Luca, Venturini Francesca, Faoro Sonia, Bettio Monica, Xhoajda Taci, Realdon Nicola, Giroto Cristian, Udilano Alessandra, Barzon Elisa, Battistuta Claudia, Ferlin Alberto

PS II/121

Preliminary results from the Calabria Pharmacovigilance Program of adverse events associated with biologic therapy in rheumatology

Citraro Rita, Gagliardi Agnese, Iaquina Francesco Salvatore, Palleria Caterina, Leo Antonio, Gallelli Luca, Grembiale Rosa Daniela, De Sarro Giovambattista, Citraro Rita

RARE DISEASES PS 122-133

Chairperson: **Fornasari Diego**

PS II/122

Urine-derived stem cells and derived skeletal muscle cells as a functional model to study calcium homeostasis perturbation

Talmon Maria, Massara Erika, Pruonto Giulia, Quaregna Martina, De Battisti Marta, Boccafoschi Francesca, Riva Beatrice, Fresu Luigia Grazia

PS II/123

PHOX2B regulates neuronal excitability by modulating the expression of K⁺, Na⁺ and Ca²⁺ channel genes

Benfante Roberta, Cardani Silvia, Di Lascio Simona, Cambria Clara, Podestà Delia, Costa Elisa, Pagliardini Silvia, Antonucci Flavia, Fornasari Diego

PS II/124

Mitotane directly activates estrogen receptor α : a bioinformatics and pharmacological study

Abate Andrea, Giacomuzzi Edoardo, Gangemi Fabrizio, Tamburello Mariangela, Cosentini Deborah, Rossini Elisa, Laganà Marta, Berruti Alfredo, Grisanti Salvatore, Sigala Sandra

PS II/125

Pharmacological screening of fenamates as ClC-1 chloride channel modulators

Laghetti Paola, Campanale Carmen, Saltarella Ilaria, Imbrici Paola, Altamura Concetta, Desaphy Jean-François

PS II/126

Nutraceutical approaches in Duchenne Muscular Dystrophy: *in vivo* and *ex vivo* effects of L-citrulline supplementation in combination with prednisolone in the dystrophic mdx mouse model

Tulimiero Lisamaura, Boccanegra Brigida, Mantuano Paola, Cirmi Santa, De Bellis Michela, Cappellari Ornella, De Luca Annamaria

PS II/127

Repression of CB1 receptor gene expression caused by dysfunctional microRNAs contributes to simvastatin induced skeletal muscle cell toxicity

Moriello Claudia, Kalkan Hilal, Elisabetta Panza, Pagano Ester, Ercolano Giuseppe, Piscitelli Fabiana, Capasso Raffaele, Di Marzo Vincenzo, Iannotti Fabio Arturo

PS II/128

Functional and pharmacological characterization of a Nav1.4 sodium channel mutation in Italian kindred also affected by a ClC-1 chloride channel mutation

Campanale Carmen, Imbrici Paola, Vacchiano Veria, Laghetti Paola, Saltarella Ilaria, Altamura Concetta, Maggi Lorenzo, Brugnoli Raffaella, Donadio Vincenzo Angelo, Desaphy Jean-François

PS II/129

Inhibition of Complement C1s by Sutimlimab in Patients with Cold Agglutinin Disease (CAD): Efficacy and Safety Results from the Randomized, Placebo-Controlled Phase 3 CADENZA Study

Barcellini Wilma, Roth Alexander, Berentsen Sigbjorn, D'Sa Shirley, Jilma Bernd, Michel Marc, Weitz Ilene C., Yamaguchi Masaki, Nishimura Jun-ichi, Vos Josephine M. I., Storek Michael, Wong Nancy, Patel Parija, Jiang Xiaoyu, Vagge Deepthi, Wardecki Marek, Shafer Frank, Lee Michelle, Broome Catherine M.

PS II/130

Epilepsy, ataxia and developmental delay caused by a de novo variant in the KCNA1 gene: a functional and pharmacological *in vitro* study

Imbrici Paola, Dinoi Giorgia, Conte Elena, Blunck Rikard, Shaked Hagar Mor, Coppola Maria Antonietta, D'Adamo Maria Cristina, Elpeleg Orly, Hartmann Inbar, Russo Angelo, Liantonio Antonella, De Luca Annamaria

PS II/131

Genetic background in the pathogenesis of Familial Mediterranean Fever: a single-center cohort study on patients from Strait of Sicily

Capra Anna Paola, Briguori Sara, La Rosa Maria Angela, Briuglia Silvana, Esposito Emanuela

PS II/132

Sildenafil ameliorates MMP hyperpolarisation in MILS-NPCs lines carrying different MT-ATP6 mutations

Bottani Emanuela, Pedrotti Giulia, Zink Annika, Brunetti Dario, Decimo Ilaria, Tiranti Valeria, Prigione Alessandro

PS II/133

Targeting androgen receptor degradation, in spinal and bulbar muscular atrophy, through PROteolysis Targeting Chimeras: development of an AF2 domain-oriented degradation enhancer

Pedrucci Federica, De Toni Luca, Pappalardo Claudia, Verona Marco, Marzaro Giovanni, Ferlin Alberto

FRIDAY, NOVEMBER 18TH

from 13:45 to 15:00

CHEMOTHERAPY & VACCINES/DIGITAL HEALTH/PATHOLOGICAL ADDICTIONS PS 1-15

Chairperson: Anna Brancato

POSTER SESSION III

PS III/1

Previous positivity to SARS-CoV2 enhances mid- and long-term antibody response after BNT162b2 vaccination in healthcare workers

Gazzaniga Gianluca, Pani Arianna, Maggi Matteo, Conti Tommaso, Agliardi Stefano, Schianchi Alice, Schenardi Paolo Andrea, Romandini Alessandra, Senatore Michele, D'Onghia Stefano, Renica Silvia, Campisi Daniela, Scaglione Francesco

PS III/2

Pharmacological modulation of mitochondrial alterations to overcome doxorubicin resistance in osteosarcoma

Giacomini Isabella, Cocetta Veronica, Tinazzi Mattia, Cortini Margherita, Avnet Sofia, Baldini Nicola, Ragazzi Eugenio, Montopoli Monica

PS III/3

Soluble urokinase plasminogen activator receptor levels as prognostic factor of COVID-19 severity in vaccinated and not vaccinated patients

Maggi Matteo, Senatore Michele, Gazzaniga Gianluca, Pani Arianna, Scaglione Francesco

PS III/4

Software as Medical Device: the use of data science for shortening the diagnostic path in the field of rare diseases

Fatima Maqoud, Cesare Scalia, Antonio Miraglia, Gennaro Apuzzo

PS III/5

A predictive model of Artificial Intelligence as a clinical decision support system: study on patients affected by COVID-19

Inzalaco Gaia, Casani Gianlorenzo Francesco, Tacconi Elisa, Pani Arianna

PS III/6

Long-term consequences of chronic "light cannabis" consumption during adolescence: a comparison study with pure THC and a high THC/low CBD combination in rats

Gabaglio Marina, Zamberletti Erica, Manenti Cristina, Parolaro Daniela, Rubino Tiziana

PS III/7

Mechanisms underlying drug-induced impulse control disorders: a pharmacovigilance-pharmacodynamic study

Fusaroli Michele, Giunchi Valentina, Gringeri Michele, Battini Vera, Carnovale Carla, Raschi Emanuel, Poluzzi Elisabetta

PS III/8

NIH Heterogeneous Stock rats trained to heroin self-administration show heterogeneous response to the anti-addictive effects of the panopioid agonist Cebranopadol
Cannella Nazzareno, Lunerti Veronica, Allen Carter, Kuhn Brittany, Hardiman Gary, Solberg Woods Leah C., Soverchia Laura, Ubaldi Massimo, Kalivas Peter, Chung Dongjun, Ciccocioppo Roberto

PS III/9

Effects of environmental enrichment on alcohol self-administration and mesolimbic dopaminergic neuronal activity in Sardinian alcohol-preferring rats
Muntoni Anna Lisa, Santoni Michele, Maccioni Paola, Pistis Marco, Colombo Giancarlo

PS III/10

Benzodiazepine dependence: a new silent pandemic
Colella Giuliana

PS III/11

THC exposure during developmental stages evokes selective alterations in Dopamine D2 receptor gene regulation
Di Bartolomeo Martina, Di Martino Serena, Stark Tibor, Kuchar Martin, Čerňanová Andrea, Petrušová Veronika, Hodosy Július, Drago Filippo, D'Addario Claudio, Micale Vincenzo

PS III/12

A different kind of detoxification from butalbital: a case report
Gozdziewska Patrizia, Lo Castro Flavia, Giuliana Colella, Carlo Baraldi, Guerzoni Simona

PS III/13

Methadone & levomethadone for the treatment of chronic pain in patients with iatrogenic opioid use disorder or lack of therapeutic efficacy with short/medium acting opioids
Tabasso Giorgio, Borgioli Giulia, Losso Lorenzo, Lanzi Cecilia, Occupati Brunella, Mannaioni Guido

PS III/14

Shared transcriptomic signature in Alcohol use disorder and Post traumatic stress disorder
Deiana Giovanni, Domi Esi, Napolioni Valerio, Ciccocioppo Roberto

PS III/15

Smoking prevalence and intention to quit among medical school students attending e-learning courses on tobacco dependence in academic years 2019-2020 and 2021-2022
Grassi Maria Caterina, Milella Michele Stanislaw, Sansone Andrea, Basili Stefania, Battaglia Giuseppe, Ferketich Amy Kathleen

PHARMACOGENETICS PS 16-23

Chairperson: **Gloria Ravegnini**

PS III/16

Lipoprotein(a) does not have a clinically relevant arterial or venous prothrombotic effect

Olmastroni Elena, Galimberti Federica, Katzmann Julius L., Laufs Ulrich, Sabatine Marc S., Catapano Alberico L., Ference Brian A.

PS III/17

Identification of shared genetic loci between bipolar disorder, lithium response and IGF-1 levels: a local genetic correlation analysis

Pisanu Claudia, Meloni Anna, Congiu Donatella, Ardaù Raffaella, Chillotti Caterina, Severino Giovanni, Del Zompo Maria, Squassina Alessio

PS III/18

PACIN2 as a modulator of autophagy and thiopurine sensitivity: *in vitro* evaluations in lymphoid and intestinal cells

Zudeh Giulia, Franca Raffaella, Lucafò Marianna, Bramuzzo Matteo, Stocco Gabriele, Decorti Giuliana

PS III/19

Association of genetic polymorphisms in DNA repair genes with the risk of radiation-induced fibrosis in breast cancer patients

Cargnin Sarah

PS III/20

Effects of PACIN2 and thiopurines on cellular biomechanical properties and extracellular vesicles content: *in vitro* study on an immortalized intestinal cell line

Norbedo Alessia, Lucafò Marianna, Senigaglia Beatrice, Parisse Pietro, Bidoli Carlotta, Gerdol Marco, Lenassi Metka, Casalis Loredana, Stocco Gabriele, Decorti Giuliana

PS III/21

Activation of neuronal TRPV4 regulates itch in a mouse model of psoriasis

Landini Lorenzo, De Logu Francesco, Maglie Roberto, Titiz Mustafa, Poli Giulio, Marini Matilde, De Araujo Daniel Souza Monteiro, De Siena Gaetano, Montini Marco, Cabrini Daniela Almeida, Fleith Otuki Michel, Pawloski Priscila Lúcia, Antiga Emiliano, Tuccinardi Tiziano, Calixto João Batista, Geppetti Pierangelo, Nassini Romina, André Eunice

PS III/22

Investigating the mechanisms of thalidomide action in pediatric IBD patients by RNA-sequencing technology

Bidoli Carlotta, Lucafò Marianna, Bramuzzo Matteo, Curci Debora, Gerdol Marco, Decorti Giuliana, Stocco Gabriele

PS III/23

Investigating the role of telomere length in response to electroconvulsive therapy or psychotherapy in patients with treatment-resistant major depressive disorder

Meloni Anna, Pisanu Claudia, Congiu Donatella, Abate Maria, Bortolomasi Marco, Perusi Giulia, Squassina Alessio, Gennarelli Massimo, Minelli Alessandra

PHARMACOGNOSY, PHYTOTHERAPY AND NUTRACEUTICALS PS 24-42

Chairpersons: **Sheila Leone, Enrico Sangiovanni**

PS III/24

The nutraceutical formulation plays a pivotal role in hydroxytyrosol pharmacokinetics

Ingegneri Mariarosaria, Smeriglio Antonella, Gualtieri Paola, Di Renzo Laura, Trombetta Domenico

PS III/25

Natural P-glycoprotein inhibitors to bypass MDR in acute myeloid leukemia

Poma Paola, Occhipinti Chiara, Labbozzetta Manuela, Notarbartolo Monica

PS III/26

SIF22137– A bio-guided fractionation of *Arbutus unedo* L. reveals the presence of potential active natural products for Gastrointestinal stromal tumor therapy

Gorini Francesca, Mandrone Manuela, Chiocchio Ilaria, Trincia Simona, Di Vito Aldo, Ravegnini Gloria, Poli Ferruccio, Angelini Sabrina, Hrelia Patrizia

PS III/27

Analysis of circulating miRNAs in ovarian cancer as novel biomarkers of chemotherapy response

Gorini Francesca, Ravegnini Gloria, Tesei Marco, Dondi Giulia, Perrone Anna Myriam, De Iaco Pierandrea, Hrelia Patrizia, Angelini Sabrina

PS III/28

Phytochemical and biological investigations on the pollen from industrial hemp male inflorescences

Acquaviva Alessandra, Di Simone Simonetta Cristina, Canini Antonella, Braglia Roberto, Di Marco Gabriele, Campana Claudia, Angelini Paola, Angeles Flores Giancarlo, Venanzoni Roberto, Libero Maria Loreta, Tirillini Bruno, Zengin Gokhan, Chiavaroli Annalisa, Recinella Lucia, Leone Sheila, Nilofar Nilofar, Brunetti Luigi, Orlando Giustino, Menghini Luigi, Ferrante Claudio

PS III/29

Anti-acne vulgaris potential of extracts from two Moroccan *Cistus* L. species: phytochemical profile, antimicrobial, antioxidant and anti-inflammatory activities

Salamone Federica Lina, Bouabidi Maryem, Gadhi Chemsddoha, Bouamama Hafida, Speciale Antonio, Ginestra Giovanna, Siracusa Laura, Nostro Antonia, Cristani Mariateresa

PS III/30

Possible interference between exercise training and antioxidant supplementation

Sellitto Carmine, Stefanelli Berenice, Corbi Graziamaria, Costantino Maria, Trucillo Marta, Perna Angelica, Lucariello Angela, De Luca Antonio, Guerra Germano, Filippelli Amelia, Conti Valeria

PS III/31

Polyphenols content, antioxidant and anti-inflammatory activity of distillation wastewaters from five species of Lamiaceae family

Salamone Federica Lina, Cristani Mariateresa, Napoli Edoardo, Ruberto Giuseppe, Molonia Maria Sofia, Muscarà Claudia, Speciale Antonio, Saija Antonina, Cimino Francesco

PS III/32

Epilobium parviflorum, *Melilotus officinalis* and *Cardiospermum halicacabum* plant extracts show antioxidant and antiinflammatory effects of in macrophage and microglial cells

Gessi Stefania, Merighi Stefania, Travagli Alessia, Nigro Manuela, Tedeschi Paola, Marchetti Nicola

PS III/33

A standardized extract from *Cynara cardunculus* L. leaves as a promoter of intestinal epithelial differentiation and barrier function in Caco-2 cells

Muscarà Claudia, Molonia Maria Sofia, Salamone Federica Lina, Saija Antonina, Cimino Francesco, Antonio Speciale

PS III/34

Pro-apoptotic effect of moscatilin from *Dendrobium loddigesii* and TRAIL in prostate cancer cells

Cardile Venera, Graziano Adriana C.E, Madrid Alejandro, Russo Alessandra

PS III/35

Novel mechanism for a fixed combination of *Serenoa repens* and *Urtica dioica* in Benign Prostatic hyperplasia therapy

Tinazzi Mattia, Giacomini Isabella, Cocetta Veronica, Saponaro Miriam, Morandin Giulia, Carnevali Ilaria, Berretta Massimiliano, Orso Genny, Ragazzi Eugenio, Montopoli Monica

PS III/36

Citrus Flavonoids and autoimmune diseases: a systematic review of clinical studies

Musumeci Laura, Maugeri Alessandro, Russo Caterina, Lombardo Giovanni Enrico, Cirmi Santa, Navarra Michele

PS III/37

1 α ,25-dihydroxyvitamin D3 modulates ecto-5'-nucleotidase (CD73) on HaCaT cell line

De Palma Giacomo, Ialenti Armando, Cicala Carla

PS III/38

Solanum aethiopicum Linn. from the Basilicata Region as a source of Specialized Metabolites with promising Anti-Obesity effects

Ponticelli Maria, Carlucci Vittorio, Russo Daniela, Gorgoglione Domenico, De Biasio Filomena, Faraone Immacolata, Gálvez Julio, Milella Luigi

PS III/39

Caryophyllane sesquiterpenes sensitize pancreatic cancer cells to sorafenib treatment by affecting STAT3/ABC transporter axis

Di Giacomo Silvia, Gulli Marco, Facchinetti Roberta, Minacori Marco, Mancinelli Romina, Percaccio Ester, Scuderi Caterina, Eufemi Margherita, Di Sotto Antonella

PS III/40

Anti-osteoporotic activity of a lycopene-genistein combination: an *in vitro* and *in vivo* study

Pirrotta Igor, Giorgi Domenico Antonio, Scarfone Alessandro, Bitto Alessandra, Mannino Federica, Pallio Giovanni, Minutoli Letteria, Squadrito Francesco, Irrera Natasha

PS III/41

Lactiplantibacillus plantarum IMC 510 supplementation in rats consuming cafeteria diet changes gut composition and attenuates the body weight gain

Micioni Di Bonaventura Emanuela, Micioni Di Bonaventura Maria Vittoria, Botticelli Luca, Coman Maria Magdalena, Tomassoni Daniele, Gabrielli Maria Gabriella, Rossolini Gian Maria, Di Pilato Vincenzo, Cecchini Cinzia, Amedei Amedeo, Silvi Stefania, Verdenelli Maria Cristina, Cifani Carlo

PS III/42

Potential effects of nutraceutical agents in Venous Chronic Insufficiency Patients

Drago Selene Francesca Anna, Rottura Michelangelo, Molonia Antonino, Zirilli Natalia, Orlando Luana, Gigliotti De Fazio Marianna, Squadrito Francesco, Arcoraci Vincenzo, Imbalzano Egidio

PS III/42bis

Antitumor effect of *Glandora rosmarinifolia* (Boraginaceae) essential oil by inhibition of Topoisomerase II activity in an *in vitro* model of acute myeloid leukemia

Labbozzetta Manuela, Occhipinti Chiara, Poma Paola, Notarbartolo Monica

MISCELLANEOUS I PS 42-51

Chairperson: **Luca Antonioli**

PS III/43

The anti-inflammatory effect of NC-2600 and NP-1815-PX, two novel P2X4 receptor antagonists, in a model of DNBS-induced experimental colitis

Di Salvo Clelia, D'Antongiovanni Vanessa, Benvenuti Laura, Pellegrini Carolina, Fornai Matteo, Natale Gianfranco, Ryskalin Larisa, Bertani Lorenzo, Lucarini Elena, Di Cesare Mannelli Lorenzo, Ghelardini Carla, Nemeth Zoltan H., Haskó György, Antonioli Luca

PS III/44

Effect of *Lactobacillus rhamnosus* GG (ATCC 53103) administration on the enteric neuromuscular function of adolescent mice after antibiotic-induced dysbiosis

Bosi Annalisa, Banfi Davide, Valetti Giorgia, Moro Elisabetta, Crema Francesca, Giron Maria Cecilia, Bresesti Ilia, Salvatore Silvia, Agosti Massimo, Baj Andreina, Giaroni Cristina

PS III/45

An extract of brown seaweeds reduces the development and progression of non-alcoholic fatty liver disease

De Martin Sara, Gabbia Daniela, Zanotto Ilaria, Sarcognato Samantha, Colognesi Martina, Carrara Maria, Guido Maria, De Martin Sara

PS III/46

Peripheral pharmacological sympathetic denervation elicits neuromuscular dysfunctions in mouse small intestine

Cerantola Silvia, Faggini Sofia, Caputi Valentina, Tietto Angela, Carrossa Gloria, Giaroni Cristina, Savarino Edoardo V., Giron Maria Cecilia

PS III/47

Toll-like receptor 4 deficiency alleviates neuromuscular dysfunction and damage to myenteric neurons in a mouse model of DNBS-mediated ileitis

Faggin Sofia, Cerantola Silvia, Caputi Valentina, Tietto Angela, Carrossa Gloria, Bosi Annalisa, Porzionato Andrea, Savarino Edoardo, Giaroni Cristina, Giron Maria Cecilia

PS III/48

Macrophages in the pathophysiology of liver fibrosis: does gender play a role?

Sayaf Katia, Zanutto Ilaria, Gabbia Daniela, Alberti Dafne, Pasqual Giulia, Russo Francesco Paolo, De Martin Sara

PS III/49

A new dietary TRPM8 ligand exerts anti-inflammatory effects in mouse macrophages and colonic tissues

Cicia Donatella, Ferrante Claudio, Iannotti Fabio Arturo, Iaccarino Nunzia, Romano Barbara, Nani Maria Francesca, Lucariello Giuseppe, Orlando Giustino, Borrelli Francesca, Di Marzo Vincenzo, Matteoli Gianluca, Capasso Raffaele, Izzo Angelo Antonio, Pagano Ester

PS III/50

eNAMPT as pro-inflammatory cytokine in gastrointestinal inflammatory disorders

Travelli Cristina, Fagiani Francesca, Colombo Giorgia, Pasini Alessandra, Lenti Marco Vincenzo, Di Sabatino Antonio, Travelli Cristina

PS III/51

Inhibition of N-Acylethanolamine acid amidase (NAAA) limits intestinal fibrosis through IL-23 signalling

Nani Maria Francesca, Lucariello Giuseppe, Pagano Ester, Cicia Donatella, Raucci Federica, Marigliano Noemi, Tropeano Francesca Paola, Luglio Gaetano, Borrelli Francesca, Izzo Angelo Antonio, Romano Barbara

PHARMACOLOGY OF PAIN PS 52-71

Chairpersons: **Livio Luongo, Rosalia Crupi**

PS III/52

Morphological and functional alterations of colon organoids treated with faecal supernatants from visceraally hypersensitive mice affected by colitis

Margiotta Francesco, Toti Alessandra, Lucarini Elena, Micheli Laura, Ferrara Valentina, Ciampi Clara, Curti Lorenzo, Di Cesare Mannelli Lorenzo, Ghelardini Carla

PS III/53

Microglia senescence as a potential target in neuropathic pain induced by nerve injury and associated comorbidity

Borgonetti Vittoria, Borgonetti Vittoria, Galeotti Nicoletta

PS III/54

Real-world evidence supports combination therapy with anti-CGRP mAbs and onabotulinumtoxinA for chronic migraine

Scuteri Damiana, Tonin Paolo, Nicotera Pierluigi, Vulnera Marilù, Altieri Giuseppina Cristina, Tarsitano Assunta, Bagegga Giacinto, Corasaniti Maria Tiziana

PS III/55

Validation of an international pain assessment tool to improve pharmacological treatment of pain and agitation in severe dementia

Scuteri Damiana, Contrada Marianna, Loria Teresa, Sturino Domenico, Cerasa Antonio, Tonin Paolo, Sandrini Giorgio, Tamburin Stefano, Bruni Amalia Cecilia, Nicotera Pierluigi, Corasaniti Maria Tiziana, Bagegga Giacinto

PS III/56

Anti-hyperalgesic efficacy of alcar against visceral pain induced by colitis in rats

Lucarini Elena, Micheli Laura, Ciampi Clara, Margiotto Francesco, Ferrara Valentina, Toti Alessandra, Di Cesare Mannelli Lorenzo, Ghelardini Carla

PS III/57

Potential role of the hydroxyl carboxylic acid receptor type 2 (HCAR2) in microglia pathophysiology

Perrone Michela, Pagano Martina, Iannotti Fabio A., Trotta Maria Consiglia, Infantino Rosmara, Luongo Livio, Maione Sabatino, Boccella Serena, Guida Francesca

PS III/58

Homo-AMPA in the periaqueductal grey modulates pain and rostral ventromedial medulla activity in diabetic neuropathic mice

Fusco Antimo, Palazzo Enza, Boccella Serena, Marabese Ida, Perrone Michela, Belardo Carmela, Iannotta Monica, Infantino Rosmara, Maione Sabatino

PS III/59

Investigation of the two-faced role of IFN- γ in pain promotion and neuroprotection in rat organotypic spinal cord slices

Ferrara Valentina, Toti Alessandra, Micheli Laura, Lucarini Elena, Ciampi Clara, Margiotto Francesco, Gerace Elisabetta, Mattei Gianluca, Di Cesare Mannelli Lorenzo, Ghelardini Carla

PS III/60

Molecular pathway analysis of morphine- and pregabalin-mediated effects to implement an innovative Quantitative Systems Pharmacology (QSP) platform for predicting improved combinational analgesic treatments

Bedini Andrea, Baiula Monica, Gülave Berfin, Cuna Elisabetta, Spampinato Santi, de Lange Liesbeth

PS III/61

Analysis of delta 9-tetrahydrocannabinol effects on morphine-mediated signaling and MOR-CB1 heteromerization in human cell models co-expressing MOR and CB1

Cuna Elisabetta, Bedini Andrea, Spampinato Santi

PS III/62

Phenotypic characterization of mice lacking the nociceptin/orphanin FQ receptor in two *in vivo* models of migraine

Pola Pietro, Sturaro Chiara, Argentieri Michela, Ruzza Chiara, Calò Girolamo

PS III/63

Evaluation of the standard nod-like receptor protein 3 (NLRP3) blocker MCC950 in a mouse model of migraine

Argentieri Michela, Pola Pietro, Sturaro Chiara, Giorgi Carlotta, Missiroli Sonia, Ruzza Chiara

PS III/64

Cannabidiol modulates dynorphinergic and BDNF system alterations in the anterior cingulate cortex and hippocampus of neuropathic pain suffering rats

Morosini Camilla, Rullo Laura, Losapio Loredana Maria, Boccella Serena, Maione Sabatino, Candeletti Sanzio, Romualdi Patrizia

PS III/65

The role of diamagnetic therapy in a Patient with Complex Regional Pain Syndrome Type I and Multiple Drug Intolerance

Vocca Cristina, Rania Vincenzo, Casarella Alessandro, Marcianò Gianmarco, Catarisano Luca, Basile Emanuele, Palleria Caterina, Citraro Rita, Gallelli Luca, De Sarro Giovambattista

PS III/66

Transient receptor potential ankyrin 1 (TRPA1) contributes to mechanical hypersensitivity in a mouse model of endometriosis

Titiz Mustafa, Landini Lorenzo, De Logu Francesco, Seravalli Viola, Pasquini Benedetta, Souza Monteiro de Araujo Daniel, Di Tommaso Mariarosaria, Petraglia Felice, Geppetti Pierangelo, Nassini Romina, Benemei Silvia

PS III/67

Macrophages and Schwann cell TRPA1 mediate chronic allodynia in a mouse model of complex regional pain syndrome type I

Marini Matilde, De Logu Francesco, Nassini Romina, Geppetti Pierangelo

PS III/68

Oxidative stress mediates thalidomide-induced pain by targeting peripheral TRPA1 and central TRPV4

De Siena Gaetano, De Logu Francesco, Landini Lorenzo, Marini Matilde, Titiz Mustafa, Trevisan Gabriela, Marone Iliara Maddalena, Coppi Elisabetta, Souza Monteiro de Araujo Daniel, Li Puma Simone, Materazzi Serena, Geppetti Pierangelo, Nassini Romina

PS III/69

Peripheral Nerve Resident Macrophages and Schwann Cells Mediate Cancer-induced Pain

Souza Monteiro de Araujo Daniel, De Logu Francesco, Marini Matilde, Landini Lorenzo, Bartalucci Niccolò, Trevisan Gabriela, Bruno Gennaro, Marangoni Martina, L. Schmidt Brian, W. Bunnett Nigel, Geppetti Pierangelo, Nassini Romina

PS III/70

Clinical use of cannabinoid preparations for the treatment of symptoms of fibromyalgia
Cardia Luigi, Bova Giuseppe, Barbagallo Alessia, Quattrone Domenico, Calapai Fabrizio, Ammendolia Ilaria, Mannucci Carmen, Calapai Gioacchino

PS III/71

miR-203b-3p from psoriatic lesions activates 5-HTR2B and TRPV4 to induce pruritus
Romitelli Antonia, Landini Lorenzo, De Logu Francesco, Maglie Roberto, Poli Giulio, Marini Matilde, Souza Monteiro de Araujo Daniel, De Siena Gaetano, Titiz Mustafa, Montini Marco, Almeida Cabrini Daniela, Pawloski Priscila Lúcia, Fleith Otuki Michel, Antiga Emiliano, Tuccinardi Tiziano, Batista Calixto João, Geppetti Pierangelo, Nassini Romina

GENDER, PEDIATRIC AND REGENERATIVE PHARMACOLOGY PS 72-85

Chairperson: **Maria Grazia Morgese**

PS III/72

The Role of Nutrition on Parkinson's disease: a systematic review
Rizzi Laura, Bianchi Vittorio, Bresciani Elena, Meanti Ramona, Molteni Laura, Torsello Antonio

PS III/73

Sex dimorphism in induction and progression of bleomycin-induced pulmonary fibrosis in mice
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Chairperson: **Fabrizia Bonacina**

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Curci Debora, Lucafò Marianna, Valencic Erica, Bramuzzo Matteo, Stocco Gabriele, Decorti Giuliana

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Ferretti Gabriella, Romano Alessia, Sirabella Rossana, Serafini Sara, Maier Thorsten Jürgen, Matrone Carmela

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