

42°

CONGRESSO
NAZIONALE
DELLA SOCIETÀ
ITALIANA
DI FARMACOLOGIA

SCIENCE TODAY FOR A BETTER
MEDICINE TOMORROW

SORRENTO (NA)

13-16 NOVEMBRE 2024

RAZIONALE

Carissime e Carissimi,

è un grande piacere invitarvi al 42° Congresso Nazionale della Società Italiana di Farmacologia, che si svolgerà a Sorrento dal 13 al 16 novembre 2024.

Questo è il primo convegno della Società in cui l'emergenza sanitaria Covid-19 viene finalmente percepita come un evento oramai sotto controllo. La pandemia ha visto il mondo scientifico coalizzarsi con le aziende riuscendo a produrre un vaccino ed anche farmaci efficaci per una malattia sconosciuta, in tempi record. L'emergenza ha rimesso al centro i temi sanitari, l'accesso alle cure, la necessità di innovazione ed il benessere della comunità accelerando una serie di cambiamenti che erano già in atto, tra cui la modalità di prescrizione dei farmaci, la telemedicina, nonché lo sviluppo dei servizi di assistenza domiciliari – o delocalizzati – rispetto a quelli ospedalieri.

Anche nel campo della R&S dei farmaci la pandemia ha dato un'ulteriore accelerazione a quelle che sono le nuove metodologie e tecnologie da applicare alla ricerca di nuovi farmaci. In particolare, intelligenza artificiale (AI) e terapie basate sugli RNA. Infatti, il potenziale dell'RNA (es. miRNA, siRNA) va ben oltre le malattie infettive e apre nuove strade per le terapie farmacologiche in molti campi. La sua versatilità ha il potenziale per trasformare il panorama del trattamento in molteplici aree terapeutiche. L'AI offre potenti strumenti computazionali in grado di analizzare grandi quantità di dati, identificare nuove molecole attive e inesplorati target farmacologici con elevati livelli di predittività, consentendo il riposizionamento di farmaci già esistenti.

L'integrazione di algoritmi di AI e le terapie basate sull'mRNA hanno il potenziale di accelerare l'identificazione di nuovi farmaci, migliorare i risultati degli studi clinici e consentire una medicina personalizzata su una scala precedentemente inimmaginabile. La velocità e la sinergia con cui queste tecnologie si stanno sviluppando plasmerà il futuro delle terapie farmacologiche, fornendo nuove opzioni terapeutiche per un'ampia gamma di malattie, ad oggi difficilmente trattabili, con un impatto enorme anche a livello sociale.

In questo contesto la Farmacologia è chiamata a rivestire un ruolo centrale nella forte trasversalità che caratterizza questi nuovi orizzonti. Il farmacologo dovrà sempre più divenire un professionista interdisciplinare che abbraccia l'integrazione di tecnologia, genomica e bioinformatica contribuendo non solo alla R&S, ma anche alla formazione.

Questo *know how* è necessario per far progredire lo sviluppo di farmaci e ottimizzare la terapia, contribuendo attivamente al progresso della medicina di precisione in un panorama sanitario sempre più complesso.

Un aspetto essenziale è anche rappresentato dalla valutazione del costo, sostenibilità, appropriatezza prescrittiva e formazione in questi campi specifici. Questi sono dei concetti chiave da affrontare in maniera armonica. Il problema della valutazione del valore dell'innovazione diventa un processo sempre più complesso ed articolato, che necessita di un ecosistema che renda possibile la fruibilità di nuove cure senza mettere a rischio la sostenibilità del nostro sistema sanitario universalistico. Infatti, l'invecchiamento della popolazione e la cronicizzazione di malattie, nel passato prive di cure efficaci, aprono nuove problematiche anche sul piano della sostenibilità e della appropriatezza prescrittiva.

Il prossimo Congresso Nazionale della Società Italiana di Farmacologia avrà come focus ricerca, innovazione, sostenibilità ed appropriatezza nonché formazione. Attraverso simposi, letture magistrali e tavole rotonde questi temi saranno discussi da farmacologi di base e clinici insieme ai regolatori, alle aziende farmaceutiche, ai medici specialisti, ai politici, alle associazioni dei cittadini-pazienti, creando un confronto costruttivo tra tutti gli stakeholders coinvolti nel mondo del farmaco e della salute.

Giuseppe Cirino
Presidente SIF

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

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Con il patrocinio di:



INFORMAZIONI GENERALI

SEDE DEL CONGRESSO

Hilton Sorrento Palace

via Sant'Antonio, 13
80067, Sorrento

COME RAGGIUNGERE LA SEDE

In treno

Il Centro Congressi dista 45 km dalla **Stazione Centrale di Napoli**.

Dalla Stazione Centrale e da Napoli P.zza Garibaldi prendere la linea ferroviaria Circumvesuviana in direzione Sorrento. L'hotel Hilton Sorrento Palace dista 10 minuti a piedi, o 5 minuti in taxi, dalla stazione ferroviaria di arrivo.

In aereo

L'aeroporto Internazionale di **Napoli Capodichino** dista 49.9 km dalla sede Congressuale.

Trasporti alternativi

La stazione di partenza dei bus si trova di fronte alla zona dedicata agli arrivi dell'Aeroporto Internazionale di Napoli. Il viaggio per la stazione ferroviaria di Sorrento dura un'ora e mezza. L'hotel Hilton Sorrento Palace dista 10 minuti a piedi, o 5 minuti in taxi, dalla stazione ferroviaria.

In auto

Se si viaggia in auto occorre prendere **l'autostrada A3 Salerno-Reggio Calabria** in direzione penisola di Sorrento e Salerno. L'uscita è quella di Castellammare di Stabia, imboccando poi la SS145 e seguendo le indicazioni per Sorrento. Arrivati a Sorrento, si deve svoltare a sinistra in via degli Aranci procedendo poi per 1 km. Svoltando infine a sinistra, in via Sant'Antonio, si arriva all'hotel Hilton Sorrento Palace.

Parcheggio

La sede congressuale offre un servizio di parcheggio a pagamento.

QUOTE DI ISCRIZIONE

Soci SIF

Quote di iscrizione esenti IVA	Quote
Socio SIF	500.00 €
Socio SIF Under 38 NON STRUTTURATO	250.00 €
Socio SIF Under 38 STRUTTURATO	300.00 €
QUOTA GIORNALIERA SOCI	180,00 €

NON SOCI SIF

Quote di iscrizione IVA inclusa	Quote
Non Socio SIF	732.00 €
Non Socio SIF Under 38	427.00 €
Socio SIF Under 38 STRUTTURATO	300.00 €
QUOTA GIORNALIERA NON SOCI	305,00 €

LA QUOTA DI PARTECIPAZIONE COMPRENDE

Accesso alle sessioni scientifiche (comprese quelle ECM) e all'area espositiva, cartella congressuale, attestato di partecipazione, coffee break e lunch come da programma.

PAGAMENTO QUOTA DI PARTECIPAZIONE

Le quote di partecipazione possono essere pagate in sede congressuale tramite:

- contanti
- carta di credito

ORARIO SEGRETERIA

In sede congressuale, la Segreteria osserverà i seguenti orari:

- Mercoledì 13 novembre - 09:30-19:00
- Giovedì 14 novembre - 07:30-20:00
- Venerdì 15 novembre - 07:30-20:00
- Sabato 16 Novembre - 07:30-14:30

BADGE

Ogni partecipante regolarmente iscritto riceverà, al momento dell'accreditamento, un badge che gli consentirà l'accesso alle sale congressuali e che dovrà essere sempre esibito per poter accedere alle aule dove si svolgono le sessioni scientifiche, ai lunch e ai coffee break. Il personale addetto ne controllerà il possesso.

- Badge con banda **Rossa Relatori/Moderatori**
- Badge con banda **Verde Partecipante**
- Badge con banda **Blu Espositori/Visitatori**

GUARDAROBA

Per i partecipanti al Congresso è disponibile un guardaroba custodito presso la sede congressuale. 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.

ATTESTATI

Gli attestati di partecipazione verranno rilasciati via mail a tutti i partecipanti iscritti presenti al congresso.

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 il centro slide entro 2 ore precedenti alla propria sessione**. Non sono ammesse presentazioni inviate tramite email alla segreteria organizzativa. Le presentazioni saranno precaricate sul software integrato con un **timer** e saranno accessibili direttamente dal podio della sala.

3. I file possono essere solamente in **formato PowerPoint (.ppt o .pptx)**. Si raccomanda di portare con sé (e di consegnare al Centro Slide), oltre al file ppt, tutti i file multimediali utilizzati nella presentazione (filmati di qualsiasi formato o file audio). Questa operazione eviterà il mancato avvio dei contributi multimediali una volta trasferita la propria presentazione su un altro computer.

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.

Il personale di sala 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. Sono altresì invitati a esortare il rispetto degli orari sin dall'inizio del simposio.

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: 14 novembre, dalle ore 10:00 alle ore 15:00

ALLESTIMENTO POSTER: 10:00 - 10:15

ESPOSIZIONE POSTER: 10:15 - 15:00

DISCUSSIONE POSTER CON IL PRESENTING AUTHOR: 13:00 - 14:30

DISALLESTIMENTO POSTER: 15:00 - 15:15

Poster Session II: 14 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: 15 novembre, dalle ore 10:00 alle ore 15:00

ALLESTIMENTO POSTER: 10:00 - 10:15

ESPOSIZIONE POSTER: 10:15 - 15:00

DISCUSSIONE POSTER CON IL PRESENTING AUTHOR: 13:00 - 14:30

DISALLESTIMENTO POSTER: 15:00 - 15:15

Le **dimensioni** non dovranno superare i 90 cm di larghezza e 120 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.

INFORMAZIONI SUL PROGRAMMA

Il Congresso è suddiviso in due aree:

- un'area di formazione ECM in sala Nettuno 4
- un'area congressuale NON ECM

ECM

Il programma accreditato ECM è identificato nel programma scientifico.

Il Congresso è accreditato (5,4 crediti ECM) per 500 partecipanti appartenenti alle seguenti categorie professionali:

- **Medico Chirurgo** (Allergologia e Immunologia clinica; Anatomia Patologica; Anestesia e Rianimazione; Angiologia; Audiologia e Foniatria; Biochimica Clinica; Cardiochirurgia; 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 pubblico del SSN, Farmacia territoriale, Farmacista di altro settore)
- **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**

Il Provider ECM Planning Congressi ha attivato una piattaforma per la compilazione del questionario ECM online all'indirizzo ecm.planning.it.

Per poter accedere alla piattaforma è necessario inserire un codice alfanumerico che sarà consegnato al termine dei lavori.

Non è prevista la compilazione del questionario di apprendimento.

È tuttavia **INDISPENSABILE** la presenza effettiva al 90% della durata complessiva dei lavori e la compilazione dei questionari di valutazione dell'evento.

La compilazione sarà possibile dalla fine dell'evento fino al 19 novembre 2024, alle ore 00:00.

Non saranno previste deroghe a tali obblighi. La compilazione del questionario darà diritto ai crediti SOLO se associata alla verifica dell'effettiva presenza al congresso.

Si invitano pertanto i signori partecipanti ad accedere ai lavori congressuali secondo l'orario previsto da programma. In caso contrario non sarà possibile ottenere i crediti ECM.

Attestato crediti ECM

L'attestato riportante i crediti ECM sarà inviato tramite email successivamente al completamento della procedura di validazione entro 90 giorni dal termine del congresso.

Wednesday, November 13th

	AUDITORIUM SIRENE	NETTUNO 1-3	NETTUNO 4 SALA ECM	NETTUNO 5
14.00-14.30		Oral Communications RWE: Focus on DDI Studies and Medication Reconciliation	Oral Communications Neurodegenerative Diseases I	Oral Communications Pharmacognosy I
14.30-15.00				
15.00-15.30				
15.30-16.00				
16.00-17.00	Opening Ceremony			
17.00-18.00	Plenary Lecture Advancing RNAi Therapeutics and the Importance of Being Unreasonable			
18.00-19.30	Round Table Innovation and sustainability: opportunities and challenges			
19.30-20.30	Welcome Cocktail			
21.00	ECPG PARTY			

Wednesday, November 13th

	NETTUNO 6	TRITONE	ULISSE	CAPRI
14.00-14.30	Oral Communications Update from preclinical and clinical research	Oral Communications Cancer Pharmacology I	Oral Communications Cardiovascular and Metabolic Pharmacology	Oral Communications Immunopharmacology
14.30-15.00				
15.00-15.30				
15.30-16.00				
16.00-17.00				
17.00-18.00				
18.00-19.30				
19.30-20.30				
21.00				

Thursday, November 14th

	AUDITORIUM SIRENE	NETTUNO 1-3	NETTUNO 4 SALA ECM	NETTUNO 5
8.30-9.00			Oral Communications Inflammation Pharmacology I	
9.00-9.30		Symposium Unravelling sex differences in cognition and behaviors for better pharmacological treatments in neuropsychiatric disorders	Symposium Climate change, environment degradation and respiratory diseases	Symposium Clinical research: children on board
9.30-10.00 *				
10.00-10.30 *		Symposium Endocannabinoid signalling perturbations and neurodevelopmental trajectories	Symposium Pulmonary Arterial Hypertension: state of the art and new signaling pathways	Symposium The role of clinicians and pharmacologists supporting AIFA drugs evaluation processes
10.30-11.00 *				
11.00-11.30 *				
11.30-12.00 *				
12.00-12.15				
12.15-13.00	Plenary Lecture Gene therapy for drug-resistant temporal lobe epilepsy			
13.00-13.30	Lunch/Poster Session			
13.30-14.00				
14.00-14.30				

Thursday, November 14th

	NETTUNO 6	TRITONE	ULISSE	CAPRI
8.30-9.00	Oral Communications Gastrointestinal Pharmacology	Symposium Anticancer drug discovery and preclinical development: methods and targets		Oral Communications Pain Pharmacology
9.00-9.30				
9.30-10.00 *	Symposium Targeting the immune system to reduce cardiovascular disease risk		Symposium How technology can accelerate drug development	Symposium The landscape of novel therapeutics in lysosomal storage diseases and glycogenoses: from enzyme replacement therapy to drug repurposing
10.00-10.30 *		Symposium Oncology 3.0: new drugs and technologies in oncogene-addicted solid tumors	Symposium Mechanism, efficacy and safety of medical devices made of substances: how to win the hurdle run	
10.30-11.00 *				
11.00-11.30 *		Symposium Oncology trials: hot topics in methodology	Symposium Novel targets for cardiometabolic disorders	Symposium Therapeutic evolution: translate pharmacological innovation in tangible benefit for patients with Hemophilia A
11.30-12.00 *				
12.00-12.15				
12.15-13.00				
13.00-13.30				
13.30-14.00				
14.00-14.30				

Thursday, November 14th

	AUDITORIUM SIRENE	NETTUNO 1-3	NETTUNO 4 SALA ECM	NETTUNO 5	
14.30-15.00		Symposium Translational Pharmacology in Alzheimer's Disease: searching for new targets or new drugs?	Symposium The evolution of drug R&D and pharmacology in the context of AI, start-ups and innovation districts	Symposium The dual challenge of immune system disorders: the case of vitiligo and oncological immunotherapies	
15.00-15.30 *					
15.30-16.00 *		Symposium Synaptic targets for Parkinson's disease		Lecture Decision making in rare disease: could RWE and biomarkers make the difference?	Lecture The value of a topical pan-JAK inhibitor in the treatment of Chronic Hand Eczema
16.00-16.30 *					Symposium Pharmacological bases of anticancer drug therapies
16.30-17.00 *			Symposium The use of Big Data in the lifecycle of medicines		
17.00-17.30 *					
17.30-18.00	General Assembly "SIF Early Career Pharmacologists Group (ECPG)"	Oral Communications Neuropsychopharmacology		Oral Communications Pharmacogenetics	
18.00-18.30					
19.00-19.30	Poster Session Cheese & Wine				
19.30-20.00					
20.00-20.30					

Thursday, November 14th

	NETTUNO 6	TRITONE	ULISSE	CAPRI
14.30-15.00	Symposium Pharmacological properties of mediterranean plant extracts	Symposium Gene editing and gene silencing approaches for dyslipidemia and cardiovascular disorders	Symposium Beyond Molecules and Routes: Unveiling the True Value of Pharmaceuticals	Symposium Medication review and deprescribing
15.00-15.30 *				
15.30-16.00 *			Symposium Beyond Pharmacogenomics: Blood-Based Biomarkers in Cancer	
16.00-16.30 *	Symposium Highlights in Ethnopharmacology	Symposium Emerging players and therapeutic strategies for LDL-C lowering and residual risk treatment in atherosclerosis Joint Symposium SIF and SISA		Oral Communications Gender Pharmacology
16.30-17.00 *				
17.00-17.30 *		Oral Communications Pharmacology of Obesity and Metabolic Disorders I	Symposium Translational approaches in heart failure and cardiometabolic disease	Symposium Tools and techniques for didactic innovation + General Assembly of "Collegio Nazionale Farmacologi Universitari (CNFU)"
17.30-18.00				
18.00-18.30				
19.00-19.30				
19.30-20.00				
20.00-20.30				

Friday, November 15th

	AUDITORIUM SIRENE	NETTUNO 1-3	NETTUNO 4 SALA ECM	NETTUNO 5
8.30-9.00		Oral Communications Pharmacology of Obesity and Metabolic Disorders II		Symposium New insights on the role of complement in neurological diseases: from preclinic to clinic
9.00-9.30				
9.30-10.00 *		Symposium Targeting the interaction between gut microbiota, mucosa, and neuro-immune system: a new hope in gastrointestinal pharmacotherapy	Symposium Emerging trends in New Psychoactive Substances (NPS): From preclinical evidences to clinical perspectives	Lecture The first drug approved for Acanthamoeba Keratitis and its patients implications
10.00-10.30 *				Symposium Role of complement in rare diseases and targeted therapies: facts and perspectives
10.30-11.00 *				
11.00-11.30 *		Round Table Biomarkers for optimization of therapy of inflammatory bowel disease: from theory to practice	Symposium New frontiers in treating mental and addictive disorders: unveiling the therapeutic potential and mechanisms of hallucinogens	Lecture Benefit/risk profile of PI3K Inhibitors in rare non-oncological diseases: leniolisib in the APDS case
11.30-12.00 *				
12.00-12.15				
12.15-13.00	Plenary Lecture Endothelial cell lipid metabolism and vascular diseases			
13.00-13.30	Lunch/Poster Session			
13.30-14.00				
14.00-14.30				

Friday, November 15th

	NETTUNO 6	TRITONE	ULISSE	CAPRI
8.30-9.00	Symposium Research and innovation approaches to personalized pharmacotherapies for respiratory diseases		Oral Communications Rare Diseases and Orphan Drugs	Oral Communications Neuropharmacology I
9.00-9.30				
9.30-10.00 *	Symposium Innovative solution in clinical pharmacogenomics: multi-omics data and one health approaches	Symposium Innovative pharmacological aspects of chronic heart failure therapy	Oral Communications Cancer Pharmacology II	
10.00-10.30 *				
10.30-11.00 *			Symposium New possible pharmacological targets for the treatment of eating disorders	Symposium The evolution of mutational analysis in clinical, pharmacological and organizational aspects: opportunities and implications for the system
11.00-11.30 *	Symposium Antimicrobial stewardship: a new commitment for the clinical pharmacology			
11.30-12.00 *			Symposium Pharmaceuticals in the environment: time to make use of what we already know and work towards what we need to know	
12.00-12.15				
12.15-13.00				
13.00-13.30				
13.30-14.00				
14.00-14.30				

Friday, November 15th

	AUDITORIUM SIRENE	NETTUNO 1-3	NETTUNO 4 SALA ECM	NETTUNO 5
14.30-15.00			Symposium Neurobiology of anorexia nervosa: preclinical and clinical evidence	Symposium Digital Therapeutics: next generation pharmacology
15.00-15.30 *			Symposium Novel targets and novel mechanisms in immunopharmacology	Symposium Impact of chronic stress on the onset and progression of mental disorders: searching for novel pharmacological targets
15.30-16.00 *		Symposium Pharmacological biomarker research and tools for the improvement of precision medicine in oncology		
16.00-16.30 *				
16.30-17.00 *		Oral Communications RWE: Focus on Biologics		
17.00-17.30 *			Oral Communications Cardiovascular and Pulmonary Pharmacology	
17.30-18.00		SIF General Assembly		
18.00-18.30				
18.30-19.00				
19.00-19.30				
19.30-20.00				

Friday, November 15th

	NETTUNO 6	TRITONE	ULISSE	CAPRI
14.30-15.00	Symposium Pharmacology in Neonates: small size, huge challenges	SIF-Farindustria Symposium Data Quality in scientific research: challenges and opportunities	Symposium Exploring novel pharmacological approaches for chronic pain management	Symposium Current approaches to the integration of gender specific pharmacology in teaching
15.00-15.30 *				
15.30-16.00 *	Symposium Beyond the Pandemic: the importance of vaccinations and the monitoring of their safety profile	Symposium Anti-inflammatory drugs from naturally derived to synthetic molecules and back: the new frontiers of NSAIDs	Symposium Glymphatic system as a bridge connecting pain, sleep disruption and brain (dys)function	Oral Communications Overview on Antibiotics & Antivirals
16.00-16.30 *				
16.30-17.00 *	Symposium Adaptogens and Immunomodulatory Medicinal Plants for Advancing in Pre-clinical and Clinical science in stress-related disorders	Oral Communications Pharmacognosy II	Oral Communications Neuropharmacology II	General Assembly "Sezione di Farmacologia Clinica"
17.00-17.30 *				
17.30-18.00				
18.00-18.30				
18.30-19.00				
19.00-19.30				
19.30-20.00				

Saturday, November 16th

	AUDITORIUM SIRENE	NETTUNO 1-3	NETTUNO 4 SALA ECM	NETTUNO 5
8.30-9.00			Oral Communications RWE: New updates in onco-hematology, pain management and diabetes	Symposium Impact of drug abuse on neurodevelopment trajectory: from molecular mechanisms to behavior
9.00-9.30		Symposium Joint Academic Conference of SCITCM of WFCMS and Italian Pharmacological Society		
9.30-10.00 *			Symposium The impact of environment on substance abuse vulnerability and progression	
10.00-10.30 *				
10.30-11.00 *				
11.00-11.30 *				
11.30-11.45 *				
11.45-12.00 *				
12.00-12.15	Conclusions and Awards			
12.15-13.00				

Saturday, November 16th

	NETTUNO 6	TRITONE	ULISSE	CAPRI
8.30-9.00	Oral Communications Pharmacology of Neurodegenerative Diseases II	Oral Communications Overview of Therapeutic Drug Monitoring	Oral Communications Pediatric Pharmacology	Oral Communications Inflammation Pharmacology II
9.00-9.30				
9.30-09.50 *	Symposium Pain and behavioural disturbances: new pathogenetic insights for better pharmacological control	Symposium The pharmacology in the preclinical and clinical era of transgender medicine	Symposium Therapeutic applications of microvesicles and microparticles in the context of immunopharmacology	Symposium Marine Pharmacology: new opportunities for human health
9.50-10.00 *				
10.00-10.30 *				
10.30-11.00 *	Symposium Unmet medical needs in the management of tardive dyskinesia			
11.00-11.30 *				
11.30-12.00 *				
12.00-12.30				
12.30-13.00				

Auditorium Sirene

- 16:00–17:00 Opening Ceremony
 17:00–18:00 Advancing RNAi Therapeutics and the Importance of Being Unreasonable
John Maraganore
- Introduced by: **Giuseppe Cirino**
- 18:00–19:30 **ROUND TABLE**
 Innovation and sustainability: opportunities and challenge
Chairpersons: Giuseppe Cirino, Vincenzo Calderone
Speakers: Giuseppe Toffoli, Walter Marrocco, Patrizia Popoli, Pierluigi Russo, Giovanna Scroccaro, Francesco Perrone, Robert Nisticò, Francesco Saverio Mennini, Onofrio Mastandrea

Nettuno 1–3

Oral Communications “RWE: focus on DDI studies and medication reconciliation”

Chairpersons: Silvana Gaetani, Andrea Cignarella

- 14:00–14:10 Severe Drug-Drug Interactions in Cardiology: insights from Bordeaux University Hospital **Lelio Crupi**
- 14:10–14:20 Atrial Fibrillation management in older hospitalized patients: evidence of a poor oral anticoagulants prescriptive attitude from the Italian REPOSI registry
Selene Francesca Anna Drago
- 14:20–14:30 Comparing the risk of metoprolol-related adverse drug reactions between women and men with heart failure using effectiveness outcomes as a proxy: a population-based cohort study using CPRD **Mario Gaio**
- 14:30–14:40 The Risk of Drug Interactions in Older Primary Care Patients after Hospital Discharge: The Role of Drug Reconciliation **Gianmarco Marcianò**
- 14:40–14:50 Disseminated Intravascular Coagulation after idarucizumab or andexanet alfa: a disproportional analysis and case-by-case analysis of reports from the FAERS database **Giuseppe Roberto**
- 14:50–15:00 Can Inappropriate Prescriptions of Drugs for Peptic Ulcer and Gastro-Esophageal Reflux Disease Be Countered? Results From the LAPTOP-PPI Cluster Randomized Trial **Stefano Scotti**
- 15:00–15:10 Medication review and deprescribing in the elderly in polypharmacy: a pilot service implementation in Rome **Silvia Alessio**
- 15:10–15:20 Exploring the level of agreement among different drug-drug interaction checkers: a comparative study on direct oral anticoagulants **Massimo Carollo**
- 15:20–15:30 Knowledge, Adoption and Barriers of Tools for Appropriate Prescribing: Results from an Italian Survey among Healthcare Professionals **Monia Donati**
- 15:30–15:40 Clinical Impact of Medication Review and Deprescribing in Older People Residing in Long-term Care Facilities: A Systematic Review and Meta-analysis of Clinical Trials and Observational Studies **Anna Forti**
- 15:40–15:50 Sharing data and transferring samples within paediatric clinical studies: how to overcome challenges and make them a science opportunity **Viviana Giannuzzi**
- 15:50–16:00 Unveiling the Link Between Drug-Drug Interactions and Bleeding Admissions in the Elderly **Agnese Graziosi**

Nettuno 4 – sala ECM

Oral Communications “Neurodegenerative diseases I”

Chairpersons: Fabrizio Gardoni, Marco Milanese

- 14:00–14:10** A preclinical study on the role of prebiotics and probiotics administration in ameliorating physiopathological hallmarks in the APPPS1 transgenic mouse model of Alzheimer’s disease **Daniele Lana**
- 14:10–14:20** *In-vitro* study on human-derived astrocytes showed the effects of mGluR5 negative allosteric modulator CTEP in reducing the aberrant activation and neurotoxicity of astroglial cells in ALS **Marco Milanese**
- 14:20–14:30** PCSK9 inhibition as a potential pharmacological strategy to treat Alzheimer’s Disease: *in vitro* and *in vivo* studies **Bianca Papotti**
- 14:30–14:40** First evidence of altered Gas6–Axl signaling and identification of novel biomarkers in ALS **Marco Peviani**
- 14:40–14:50** Preclinical evaluation of gene expression in an animal model of Amyotrophic Lateral Sclerosis treated with dietary Conjugated Linoleic Acid **Sabata Pierno**
- 14:50–15:00** Carnosine protects human microglia challenged by LPS + ATP by decreasing oxidative stress and rescuing energy metabolism **Anna Privitera**
- 15:00–15:10** Multidisciplinary Insights into the Risk and Safety of Dietary Glycotoxins: Exploring *In Vivo* and Food Settings **Giulia Abate**
- 15:10–15:20** *In-vitro* approaches to study Parkinson’s disease risk factors **Mario Rossi**
- 15:20–15:30** Investigating the connection between Amyloid beta and TNF- α in individuals at the early stages of Alzheimer’s disease to develop personalized diagnostic approaches **Sara Serafini**
- 15:30–15:40** The unfolded protein response in an induced model of Alzheimer’s disease **Giulia Sita**
- 15:40–15:50** CAP2 overexpression in hippocampal neurons prevents actin abnormalities and cognitive defects in an Alzheimer’s Disease model **Ramona Stringhi**
- 15:50–16:00** The pharmacological activation of lysosomal Ca²⁺ channels by drug repurposing strategy protects motor neurons via autophagy regulation in a preclinical model of amyotrophic lateral sclerosis (ALS) **Valentina Tedeschi**

Nettuno 5

Oral Communications “Pharmacognosy I”

Chairpersons: Laura Rizzi, Angelo Antonio Izzo

- 14:00–14:10** Investigating the bioactive Potential of rice-bran-derived gamma-oryzanol in Gut and Brain Health **Giulia Abate**
- 14:10–14:20** Chemical composition and biological properties of “Sulmona Red Garlic” ecotype’s aerial bulbils **Annalisa Chiavaroli**
- 14:20–14:30** Curcumin delivered in multifunctional nanosystems to target the “pathological” P-glycoprotein of the tumor cell **Alessandra Cusimano**
- 14:30–14:40** *In vivo* evaluation of anti-aging effect of a standardized extract of *Salvia haenkei* **Isabella Giacomini**
- 14:40–14:50** Ellagitannins from *Castanea sativa* Mill. leaves with antibacterial and anti-inflammatory activities in *in vitro* and *in vivo* models of *H. pylori* gastric infection **Giulia Martinelli**
- 14:50–15:00** Anti-inflammatory effects of nano-formulated baicalin and curcumin in an *in vivo* model of imiquimod-induced psoriasis **Igor Pirrotta**
- 15:00–15:10** A study of the effects of Erucin in a simplified *in vitro* model of psoriasis **Laura Rizzi**

- 15:10-15:20 Suppression of mast-cell-mediated allergic inflammation by olive leaf extract
Fabio Somma
- 15:20-15:30 Efficacy and Safety of probiotic supplementation in the management of bacterial chronic prostatitis **Cristina Vocca**

Nettuno 6

Oral Communications "Update from preclinical and clinical research"

Chairpersons: **Mirco Masi, Adele Romano**

- 14:00-14:10 Treatment Patterns in Moderate to Severe Psoriasis: A Hospital-based Retrospective Analysis **Angela Boccia**
- 14:10-14:20 Late relapse after CAR-T cell therapy for adult patients with hematologic malignancies: A definite evidence from systematic review and meta-analysis on individual data **Cecilia Cagnotta**
- 14:20-14:30 Dual Orexin Receptor Antagonists vs. Z-Drugs: Insights from a Disproportionality Analysis Using the WHO Drug Safety Database **Giuseppe Cicala**
- 14:30-14:40 Post-marketing safety surveillance of inclisiran: an analysis of spontaneous reports in Eudragilance **Consiglia Riccardi**
- 14:40-14:50 Attitudes and confidence to deprescribing in general practice **Andrea Rossi**
- 14:50-15:00 Safety/Efficacy Profile of Midazolam and Ketamine in Emergency Extra-hospital Management of Excited Delirium Syndrome **Luca De Toni**
- 15:00-15:10 Implantable devices in pain relief: the "L. Sacco" teaching hospital experience **Chiara Resnati**
- 15:10-15:20 6-thioguanine and diabetic retinopathy: a drug repurposing study **Maria Consiglia Trotta**
- 15:20-15:30 Assessing the Efficacy of Fluoxetine in a Gaming Disorder Animal Model: Study on predictive validity **Antonino Casile**
- 15:30-15:40 Alteration of GILZ/c-Rel/RACK1 pathway and loss of epithelial barrier integrity in Inflammatory Bowel Disease **Mirco Masi**
- 15:40-15:50 Striking Brain Tumor Metabolic Vulnerabilities through identification of Synthetic Lethal pairs **Martina Canton**
- 15:50-16:00 Drug repurposing as a novel strategy to block PDGF-C/Neuropilin-1 interaction and reduce melanoma aggressiveness **Claudia Ceci**

Tritone

Oral Communications "Cancer Pharmacology I"

Chairpersons: **Paola Patrignani, Concetta Altamura**

- 14:00-14:10 Mitotane effect on Wnt- β -catenin pathway and cytokines secretion in ACC spheroids **Andrea Abate**
- 14:10-14:20 ClC chloride channels as promising therapeutic targets in human pancreatic ductal adenocarcinoma **Concetta Altamura**
- 14:20-14:30 eNAMPT promotes the acquisition of an invasive and metastatic phenotype in 4T1 triple-negative breast cancer murine model **Federica Carolina Balestrero**
- 14:30-14:40 Exploring the Therapeutic Potential of Erucin, an H₂S-Releasing Isothiocyanate, in *in Vitro* and *in Vivo* models of Triple-Negative Breast Cancer **Ivana Bello**
- 14:40-14:50 ALDH1A1 mediates resistance to RAF/MEK inhibitors in melanoma cells by sustaining a stemness phenotype and triggering PI3K/AKT signaling **Valerio Ciccone**

- 14:50-15:00** The association of mTOR inhibitors with immunotherapy shapes the tumor microenvironment into a hot phenotype but not to tumor regression
Chiara Colarusso
- 15:00-15:10** Platelet-promoting drug delivery of anti-inflammatory agents to treat glioblastoma
Paola Patrignani
- 15:10-15:20** Inhibition of colorectal cancer progression by N-stearoyl taurine, a new lipid mediator
Paola De Cicco
- 15:20-15:30** Establishment and characterization of breast cancer organoids: a promising tool for boosting the preclinical development of novel pharmacological approaches
Federica Foglietta
- 15:30-15:40** Evaluation of novel therapeutics compounds in Gastrointestinal stromal tumors (GISTs)
Francesca Gorini
- 15:40-15:50** Targeting Nrf2-Related Metabolic Adaptation to Increase Chemotherapy Response and Ferroptosis Induction in Chemotolerant Medulloblastoma Cells
Lorenzo Manfreda
- 15:50-16:00** Extracellular nicotinamide phosphoribosyltransferase (eNAMPT) drives breast cancer angiogenesis, tuning up pericyte activity
Marianna Moro

Ulisse

Oral Communications "Cardiovascular and metabolic pharmacology"

Chairpersons: **Manuela Casula, Nicola Ferri**

- 14:00-14:10** Inhibition of Padi4-dependent NETosis prevents diet-induced gut hyperpermeability, protecting from dysbiosis-induced inflammation and dysmetabolism
Mattia Albiero
- 14:10-14:20** Role of inflammatory chemokines receptors in atherosclerosis
Elisabetta Caiazza
- 14:20-14:30** Lipid-lowering therapy in patients discharged after an atherosclerotic cardiovascular event: initiation, treatment adherence, and influencing factors
Manuela Casula
- 14:30-14:40** Dapagliflozin counteracts skeletal muscle pathology in an animal model of heart failure by modulating glucose and ion homeostasis
Elena Conte
- 14:40-14:50** Optic Atrophy (OPA) 1 overexpression modulates lipid and lipoprotein metabolism in the liver
Lorenzo Da Dalt
- 14:50-15:00** Exploring ANGPTL3 and PCSK9 Crosstalk: Implications in Lipid Homeostasis and liver fat accumulation. An *in vivo* and *in vitro* study
Nicola Ferri
- 15:00-15:10** Pharmacological profile of VEGF-mimetic peptides QK and HPLW2
Arianna Filippelli
- 15:10-15:20** Sex-related differences of hepatic lipid metabolism and mitochondrial function in epileptic WAG/Rij rats: impact of neonatal lipopolysaccharide exposure
Claudio Pirozzi
- 15:20-15:30** CK2 inhibition ameliorates metabolic inflammation in a murine model of high fat high sugar diet consumption
Elisa Porchietto
- 15:30-15:40** Sphingosine-1-phosphate receptor 3 regulates the transendothelial transport of high-density lipoproteins and low-density lipoproteins in opposite ways
Francesco Potì
- 15:40-15:50** Efficacy of sacubitril-valsartan on myocardial hypertrophy in aging-related heart failure
Maria Antonietta Riemma
- 15:50-16:00** Metformin-Isothiocyanate, contrasting vascular complications in T2DM with a new H₂S-donor hybrid drug
Jacopo Spezzini

Capri

Oral Communications "Immunopharmacology"

Chairpersons: Maria Rosaria Bucci, Oxana Bereshchenko

- 14:00-14:10 Pharmacovigilance Study on the Reporting Frequency of Atrial Fibrillation with Immune Checkpoint Inhibitors: Insights from FDA Adverse Event Reporting System
Nunzia Balzano
- 14:10-14:20 Glucocorticoid hormones regulate hematopoietic stem cell quiescence via Glucocorticoid Induced Leucine Zipper-mediated control of mTOR signaling
Oxana Bereshchenko
- 14:20-14:30 SECTM1 as a novel ligand of human GITR: a new tool for immunomodulation
Luigi Cari
- 14:30-14:40 Rilzabrutinib reduces biomarkers related to itch and disease severity in chronic spontaneous urticaria and atopic dermatitis
Davide Dondi
- 14:40-14:50 Nerve Growth Factor (NGF) promotes the pro-tumoral functions of ILC2 in bladder cancer
Giuseppe Ercolano
- 14:50-15:00 Off-label use of Liraglutide counteracts the immune dysregulation associated with Wolfram Syndrome
Maria Teresa Pallotta
- 15:00-15:10 Zeaxanthins promote anti-inflammatory and neuroprotective effects by Aryl Hydrocarbon Receptor activation
Benedetta Pieroni
- 15:10-15:20 Looking to the future: Disproportionality analysis provides critical insights into CAR T-cell safety and secondary malignancy risk (FAERS Pharmacovigilance Database)
Rosanna Ruggiero
- 15:20-15:30 High Aryl Hydrocarbon Receptor gene expression correlates with Immunoinhibitory features and poor outcomes in patients with Soft Tissue Sarcomas
Estevao Carlos Silva Barcelos

Auditorium Sirene

PLENARY LECTURE

Chairpersons: **Monica Diluca, Fabrizio Gardoni**

12:15-13:00 Gene therapy for drug-resistant temporal lobe epilepsy **Christophe Mulle**

17:30-18:30 **General Assembly "SIF Early Career Pharmacologists group (ECPG)"**

Nettuno 1-3

Symposium

Unravelling sex differences in cognition and behaviors for better pharmacological treatments in neuropsychiatric disorders

Chairpersons: **Patrizia Campolongo, Gian Marco Leggio**

- 09:00-09:20 Sex-specific susceptible phenotypes induced by prenatal dysregulation of endocannabinoid system **Miriam Melis**
- 09:20-09:40 Functional and structural adaptations underlying sex-biased susceptibility and resilience to traumatic stress **Gian Marco Leggio**
- 09:40-10:00 Brain circuits for sexually dimorphic social behaviors **Diego Scheggia**
- 10:00-10:20 Sex differences in circuits of emotion recognition **Francesco Papaleo**
- 10:20-10:30 Phenotypic characterization and sex-dependent behavioral responses of PCSK9 knockout mice in anxiety- and depression-like paradigms **Sofia Nasini**

Symposium

Endocannabinoid signalling perturbations and neurodevelopmental trajectories

Chairpersons: **Carla Cannizzaro, Tiziana Rubino**

- 10:30-10:50 Role of the endocannabinoid system in adolescent brain myelination and consequences of its disruption **Tiziana Rubino**
- 10:50-11:10 Developmental disruption of endocannabinoid signaling and psychopathological trajectories **Miriam Melis**
- 11:10-11:30 Shedding light on the role of endocannabinoids in autism spectrum disorder **Viviana Trezza**
- 11:30-11:50 Cognitive neuroplastic and bioenergetic consequences of the early exposure to THC **Carla Cannizzaro**
- 11:50-12:00 Impact of Prenatal Cannabis Exposure on Offspring Revealed in Behavioral and Molecular Studies **Loredana Maria Losapio**

Symposium

Translational Pharmacology in Alzheimer's Disease: searching for new targets or new drugs?

Chairpersons: **Elena Marcello, Filippo Caraci**

- 14:30-14:45 Synaptic failure in Alzheimer's Disease: from biomarkers identification to drug development **Elena Marcello**
- 14:45-15:00 The underexplored question of β -amyloid monomers: a new path for drug discovery in Alzheimer's Disease? **Agata Copani**
- 15:00-15:15 Anti-amyloid antibody therapies in Alzheimer's Disease: which evidence? **Armando Genazzani**
- 15:15-15:30 Ultramicronized-palmitoylethanolamide restores the astrocyte-neuron metabolic coupling in 3xTg-AD mice by controlling levels of klotho, taurine, and lactate **Roberta Facchinetti**

Symposium

Synaptic targets for Parkinson's diseaseChairpersons: **Fabrizio Gardoni, Arianna Bellucci**

- 15:30–15:50** Synaptic dysfunction, an early event in Parkinson's disease pathophysiology
Antonio Pisani
- 15:50–16:10** Kainate receptors as potential target for a neuroprotective treatment in juvenile Parkinson's disease **Jenny Sassone**
- 16:10–16:30** Rabphilin-3A as a novel synaptic target in Parkinson's disease **Fabrizio Gardoni**
- 16:30–16:50** PK7/Syntacasin: a novel synaptic-targeting compound reducing alpha-synuclein pathology and halting neurodegeneration in Parkinson's disease models
Arianna Bellucci
- 16:50–17:00** Pharmacological modulation of Nrf2 pathway in alpha-synuclein mouse model of Parkinson's disease **Michela Salvadè**

Oral Communications "Neuropsychopharmacology"Chairpersons: **Fabio Tascetta, Diego Scheggia**

- 17:00–17:10** Testing the antiseizure effect of NMDA inhibitors in mice carrying a Gain of Function mutation (N615S) in the GluN2A subunit of the NMDA receptor **Ilaria Bertocchi**
- 17:10–17:20** Worsening of absence seizures by Cenobamate without modifying the neuropsychiatric comorbidities in the WAG/Rij rat model **Francesca Bosco**
- 17:20–17:30** Role of Kv7 Channels in renin angiotensin system (RAS)-induced disruption of ht blood-brain barrier **Camilla Celentano**
- 17:30–17:40** Investigation of synergistic interaction between Palmitoylethanolamide, Docosahexaenoic acid and Melatonin in a mouse model of autism
Claudia Cristiano
- 17:40–17:50** ErbB inhibition rescues nigral dopamine neuron hyperactivity and repetitive behaviors in a mouse model of fragile X syndrome **Ada Ledonne**
- 17:50–18:00** Identification of Peripheral Biomarkers through Metabolome Analysis in Patients with Bipolar Disorder Treated with Mood Stabilizers **Anna Meloni**
- 18:00–18:10** Effects of phytocannabinoids on social behavior and ultrasonic communication in mice **Marika Premoli**
- 18:10–18:20** Maternal immune activation alters the mesocorticolimbic neural activity in dams and offspring **Michele Santoni**
- 18:20–18:30** Neurobiological Alterations in the Amygdala of BTBR mouse model of Autism Spectrum Disorders **Vladyslav Sikora**

Nettuno 4 – sala ECM**Oral Communications "Inflammation Pharmacology I"**Chairpersons: **Vincenzo Brancaleone, Vincenzo Calderone**

- 08:30–08:40** Hodgkin Lymphoma survivors: role of Advance Glycation End products and inflammation in premature aging **Eleonora Aimaretti**
- 08:40–08:50** Combined targeting of fatty acid amide hydrolase and melatonin receptors promotes neuroprotection and stimulates inflammation resolution in rats
Francesca Boscia
- 08:50–09:00** Effects of Nutraceuticals on inflamm-aging and macrophage polarization in Childhood Cancer Survivors **Alessandra Di Paola**

- 09:00-09:10** Ultra-micronized Palmitoylethanolamide (umPEA) reduces seizure severity and related neuropsychiatric-like comorbidities in the pentylenetetrazol kindling model
Lorenza Guarnieri
- 09:10-09:20** Levosimendan and Dobutamin Attenuate LPS-Induced Inflammation in Microglia by Inhibiting the NF- κ B Pathway and NLRP3 Inflammasome Activation via Nrf2/HO-1 Signalling
Federica Mannino

Symposium

Climate change, environment degradation and respiratory diseasesChairpersons: **Fiorentina Roviezzo, Luca Gallelli**

Under the patronage of "RETURN" - Multi-risk science for resilient communities under a changing climate, progetto di ricerca finanziato dal Piano Nazionale di Ripresa e Resilienza, Missione 4 Componente 2, Investimento 1.3, finanziato dall'Unione europea - NextGenerationEU e con specifico riferimento alla tematica n. 3, "Rischi ambientali, naturali e antropici", secondo la proposta progettuale approvata dal MUR.

- 09:30-09:50** Climate change and environmental pollution: basic principles and health effects
Carmine Lubritto
- 09:50-10:10** Environmentally derived health impact assessment: the logic of risk assessment and European legislation on chemical substances as a prevention tool to protect public health
Sonia Russo
- 10:10-10:30** Climate change and respiratory diseases
Giulia Costanzo
- 10:30-10:50** Addressing environmental challenges: The impact of Nanoplastics and Volatile Organic Compounds on Human Health
Bruno D'Agostino
- 10:50-11:00** Cigarette Smoke modulates microRNA expression in primary human alveolar macrophages
Davida Mirra

Symposium

Pulmonary Arterial Hypertension: state of the art and new signaling pathwaysChairpersons: **Giuseppe Cirino, Carmela Fimognari**

- 11:00-11:20** Current therapeutic strategies in PAH: are we satisfied?
Silvia Papa
- 11:20-11:40** New perspectives in PAH management
Michele D'Alto
- 11:40-12:00** Discussion

Symposium

The evolution of drug R&D and pharmacology in the context of AI, start-ups and innovation districtsSponsored with the unconditional contribution of **AstraZeneca, Alexion**Chairpersons: **Annalisa Capuano, Gianni Sava**

- 14:30-14:45** The role of the pharmacologist in drug development and sustainable innovation
Annalisa Capuano
- 14:45-15:00** Innovative approaches to R&D & drug repurposing
Maurizio Polano
- 15:00-15:15** The role of AI in the rare disease space
Gesualdo Loreto
- 15:15-15:30** Innovative technologies in R&D: the role of gene editing and CRISPR-Cas9 in personalised medicine
Marcello Maresca
- 15:30-15:45** The importance of districts such as MIND in fostering growth and innovation in R&D: the a-catalyst experience
Peter Fenici
- 15:45-16:00** Discussion

LECTURE

Chairperson: Ylenia Ingrasciotta

Sponsored with the unconditional contribution of Advanz Pharma

16:00–16:30 Decision making in rare disease: could RWE and biomarkers make the difference?
Antonio De Vincentis

Symposium

The use of Big Data in the lifecycle of medicines

Chairpersons: Annalisa Capuano, Gianluca Trifirò

16:30–16:50 The digitalization of clinical trials, challenges, and opportunities Marco Scatigna

16:50–17:10 Big data, drug discovery, and drug repositioning Cristina Scavone

17:10–17:30 Utility of big data and artificial intelligence in pharmacovigilance Lisa Stagi

17:30–17:50 Application of machine learning techniques to expedite the diagnosis of rare diseases Ylenia Ingrasciotta

17:50–18:00 Biological drugs and risk of serious infections in patients with psoriasis/psoriatic arthritis: a large-scale, cohort study using the Italian VALORE Project distributed database Andrea Spini

Nettuno 5

Symposium

Clinical research: children on board

Chairpersons: Concetta Rafaniello, Annalisa Capuano

09:00–09:20 European Pediatric Regulation: the past, the present, the future Concetta Rafaniello

09:20–09:40 National Ethic Committee Role: how to collaborate in paediatric clinical research
Stefania Spinicelli

09:40–10:00 UpToDate: which does is the research topic direction? Carmen Ferrajolo

10:00–10:15 Development of a Population Pharmacokinetic model of Ceftriaxone in pediatric patients under two years – the PUERI Study Gianluca Gazzaniga

10:15–10:30 Treatment of paediatric patients with Familial Hypercholesterolemia: a follow-up analysis from the LIPIGEN Paediatric Group Manuela Casula

Symposium

The role of clinicians and pharmacologists supporting AIFA drugs evaluation processes

Chairpersons: Pier Luigi Canonico, Armando Genazzani

10:30–10:35 Opening: the role of scientific societies Giuseppe Cirino

10:35–10:40 Rational of the session Pier Luigi Canonico

10:40–11:00 Treatments for Duchenne muscular dystrophy Eugenio Mercuri

11:00–11:20 Treatments for Alzheimer disease Giordano Cecchetti

11:20–12:00 Roundtable: how to manage uncertainties during assessment?

Patrizia Popoli, Armando Genazzani, Giuseppe Toffoli, Annamaria De Luca, Pierluigi Russo, Eugenio Mercuri, Giordano Cecchetti, Walter Marrocco, Mauro Biffoni

Symposium

The dual challenge of immune system disorders: the case of vitiligo and oncological immunotherapies

Chairperson: Cristina Travelli

Sponsored with the unconditional contribution of Incyte

14:30–14:50 Ruxolitinib for topical use: the first answer to vitiligo patients Angelo Valerio Marzano

14:50–15:10 Immunotherapy in oncology: after so many years can we say something new?
Paolo Ascierto

15:10–15:30 Pipeline development at Incyte: challenges and certainties Alfonso Gentile

LECTUREChairperson: **Matteo Fornai**

15:30-16:00 The value of a topical pan-JAK inhibitor in the treatment of Chronic Hand Eczema
Filippo Drago

Symposium

Pharmacological bases of anticancer drug therapiesChairpersons: **Giorgio Minotti, Giuseppe Nocentini**

16:00- 16:20 Cancer immunotherapy: state of the art and new pharmacological targets
Giuseppe Nocentini

16:20-16:40 Recent advances in cancer vaccines: an overview and the example of a microbiome-derived peptide vaccine **Deborah Cosentini**

16:40- 17:00 Rational bases for combinations of cancer therapies **Enrico Mini**

17:00- 17:20 Therapeutic targeting of oncogene addiction **Marzia Del Re**

17:20-17:30 Empowering Temozolomide Efficacy: Voltage-Gated Sodium Channel Blockade Enhances Glioblastoma Sensitivity via ERK-Mediated p53 Activation and MGMT Downregulation **Roberta Leone**

Oral Communications “Pharmacogenetics”Chairpersons: **Marzia Del Re, Gloria Ravegnini**

17:30-17:40 Methotrexate (MTX) mimicry of MTHFR-C677T genetic defects impairs endothelial progenitor cell (EPCs) dysfunction and may contribute to explain MTX-induced stroke-like syndrome **Vanessa Desantis**

17:40-17:50 Integrating pharmacogenetics and pharmacovigilance data of fluoropyrimidine and irinotecan-based chemotherapies: a single-center observational study
Anna Paola Capra

17:50-18:00 Importance of virus and host genetics and environmental factors in the response to antiviral therapy of PLWHs **Emanuela De Bellis**

18:00-18:10 Optimizing the maintenance phase of childhood acute lymphoblastic leukemia AIEOP-BFM protocol through mercaptopurine therapeutic drug monitoring and PACSIN2 SNP rs2413739: a validation study **Raffaella Franca**

18:10-18:20 Sex-specific effect of GIST patients pharmacogenetic profile for CYP3A5, ABCB1, ABCG2 and SLC22A1/OCT1 on imatinib plasma exposure **Eleonora Cecchin**


Nettuno 6
Oral Communications “Gastrointestinal Pharmacology”Chairpersons: **Lorenzo Di Cesare Mannelli, Matteo Fornai**

08:30-08:40 The pharmacological blockade of P2X4 receptor relieves visceral pain in a rat model of colitis **Clelia Di Salvo**

08:40-08:50 Toll-like receptor 4 interaction with enteric serotonergic neurotransmission in mouse models of small intestinal inflammation **Sofia Faggin**

08:50-09:00 Hypoxia-driven dynamics in primary liver cancers. Is there a novel treatment opportunity? **Giuseppe Leoncini**

09:00-09:10 NAAA pharmacological inhibition limits IL-23-mediated intestinal fibrosis in Cx3cr1+ lamina propria mononuclear cells and bone marrow-derived macrophages.
Maria Francesca Nani

09:10-09:20 Effects of probiotic mixture standardized with maltodextrin on enteric neuroplasticity and colonic dysmotility in a spontaneous model of accelerate senescence
Giulia Valdiserra

Symposium

Targeting the immune system to reduce cardiovascular disease risk

Chairpersons: Pasquale Maffia, Massimo Collino

- 09:30-09:45** Targeting inflammation to reduce cardiovascular disease risk: a realistic clinical prospect? **Pasquale Maffia**
- 09:45-10:00** Vascular impairment and inflammation: a novel loop in (pro)resolutive process involving FPR2 receptor **Vincenzo Brancaleone**
- 10:00-10:15** Galectins: novel regulators of immune mediated mechanisms in thromboinflammatory diseases **Asif Jilani Iqbal**
- 10:15-10:30** Immunometabolic checkpoints in CVD **Fabrizia Bonacina**
- 10:30-10:45** Inhibition of CK2 with silmitasertib counteracts circulatory collapse and enhances outcomes in murine sepsis **Gustavo Ferreira Alves**

Symposium

Pharmacological properties of Mediterranean plant extracts

Chairpersons: Mario Dell'Agli, Alma Martelli

- 14:30-14:50** Anti-hyperalgesic efficacy and pharmacodynamic profile of *Lepidium sativum* constituents in the management of tendinopathy **Alessandra Toti**
- 14:50-15:10** Vasoprotective effects of erucin, the isothiocyanate derived from *Eruca sativa* Mill. on endothelial dysfunction: from human cells to obese patients arteries **Alma Martelli**
- 15:10-15:30** Exploring the effect of *Cistus x incanus* L. extract during *H. pylori* infection **Stefano Piazza**
- 15:30-15:50** Plants in the Mediterranean area as precious supporters in pain therapy: an overview **Stefania Maria Ceruti**
- 15:50-16:00** *Mangifera indica* L. extract acts as a selective rheostat of Toll-Like-Receptors (TLRs)-related trained immunity in both murine and human macrophages **Anna Schettino**

Symposium

Highlights in Ethnopharmacology - Joint symposium with the Chinese Pharmacological Society

Chairpersons: Domenico Delfino, Carla Ghelardini, Francesca Borrelli

- 16:00-16:30** Unlocking the therapeutic potential of *Moringa oleifera* in experimental colitis: a multifaceted investigation through colon organoid-based and *in vivo* approaches **Francesco Margiotta**
- 16:30-17:00** Essential oils: from ethnopharmacology to drug discovery **Alessandra Russo**
- 17:00-17:30** South African Ethnopharmacology **Namrita Lall**
- 17:30-18:00** Research on Chinese medicinal materials: the basis of modern understanding of Traditional Chinese Medicine **Guanhua Du**
- 18:00-18:30** Artificial intelligence and big data-based research on pharmacology of traditional Chinese medicine: progress and challenge **Wenxia Zhou**

Tritone

Symposium

Anticancer drug discovery and preclinical development: methods and targets

 Chairpersons: **Monica Notarbartolo, Stefania Nobili**

- 08:30–08:50 Patient derived xenografts and organoids **Ester Pagano**
- 08:50–09:10 Cancer on chip technology **Lucia Lisi**
- 09:10–09:30 Angiogenesis: still a trendy target? **Sandra Donnini**
- 09:30–09:50 Targeted protein degradation as an emerging pharmacological strategy for the development of cancer drugs **Marianna Moro**
- 09:50–10:00 Insights into RACK1 Regulation and its related inflammation and tumor microenvironment (TME) in Triple-Negative Breast Cancer (TNBC): towards personalized therapy **Roberta Valeria Limosani**

Symposium

Oncology 3.0: new drugs and technologies in oncogene-addicted solid tumors

 Sponsored with the unconditional contribution of **Menarini Stemline Italia**

 Chairpersons: **Francesco Perrone, Rossana Roncato**

- 10:00–10:30 HER-2 as predictive biomarker and drug target across solid tumor **Marzia del Re**
- 10:30–11:00 Acquired Resistance Mutations: New Diagnostic and Therapeutic Solutions in the Pathway of HR+ HER2- Metastatic Breast Cancer **Rossana Roncato**

Symposium

Oncology trials: hot topics in methodology

 Chairpersons: **Giorgio Minotti, Grazia Graziani**

- 11:00–11:15 Endpoints in oncology trials. The impact of central imaging review on the assessment of Responses and Disease Progression **Pierluigi Navarra**
- 11:15–11:30 Endpoints in oncology trials. The methodological/regulatory relevance of Patient Reported Outcomes **Massimo Di Maio**
- 11:30–11:45 New horizons in Phase-1 studies **Gennaro Daniele**

Symposium

Gene editing and gene silencing approaches for dyslipidemia and cardiovascular disorders

 Sponsored with the unconditional contribution of **Novartis**

 Chairpersons: **Maurizio Averna, Nicola Ferri**

- 14:30–14:50 Molecular and Pharmacological basis of Gene Editing and Gene silencing for dyslipidemia **Giuseppe Danilo Norata**
- 14:50–15:10 Clinical implications of PCSK9 gene silencing **Alberto Zambon**
- 15:10–15:30 Gene silencing for hypertrygliceridemia **Laura D'Erasmus**
- 15:30–15:45 Validation of a reporter mouse to study the modulation of TFEB and TFE3 activity through *in-vivo* imaging techniques **Alessia Panzeri**
- 15:45–16:00 Effects of BET Inhibition on lung micro-environmental changes in obesity-related pulmonary Arterial Hypertension (PAH) **Marialucia Telesca**

Symposium

Emerging players and therapeutic strategies for LDL-C lowering and residual risk treatment in atherosclerosis – Joint Symposium SIF and SISA (Società Italiana per lo Studio dell'Aterosclerosi)**Sponsored with the unconditional contribution of Novartis**

Chairpersons: Luigi Gentile, Giuseppe Danilo Norata

- 16:00–16:20** From LDL-C lowering to residual risk treatment: novel directions in lipid management and atherosclerosis **Alberto Zambon**
- 16:20–16:40** Pharmacology of Bempedoic acid **Alberto Corsini**
- 16:40–17:00** Revisiting CETP inhibitors: from HDL to apoB particles **Laura Calabresi**
- 17:00–17:20** Lp(a) as a causal factor in atherosclerosis and CVD **Maurizio Averna**
- 17:20–17:30** Evaluation of LDL receptor response to PCSK9 inhibition: in vitro study with siRNA anti-PCSK9 and evolocumab **Giorgia Marodin**

Oral Communications “Pharmacology of obesity and metabolic disorders I”

Chairpersons: Andrea Baragetti, Carlo Cifani

- 17:30–17:40** Exploring the potential of repurposing Fostamatinib, a SYK inhibitor, in a murine model exhibiting diet-induced insulin resistance and neuroinflammation
Eleonora Aimaretti
- 17:40–17:50** Incretin dependent periprandial increase of neutrophils blood count patrols post-prandial metabolic adaptations **Andrea Baragetti**
- 17:50–18:00** Hydrogen Sulfide (H₂S) derived protein persulfidation is involved in Obesity-Induced Skeletal muscle (SKM) dysfunction **Veronica Casale**
- 18:00–18:10** Activation of TRPA1 channels as potential therapeutic strategy in metabolic disorders **Valentina Citi**
- 18:10–18:20** Peripheral effects of limbic NPY-1R knockout on NPY's signalling and lipid metabolism **Giacomo Einaudi**
- 18:20–18:30** Metformin-isothiocyanate (Met-ITC), the new hybrid molecule for the modulation of the browning process and the management of oxidative stress associated with obesity: *in vitro* evaluation on murine preadipocytes and mature white adipocytes
Lorenzo Flori

Ulisse

Symposium

How technology can accelerate drug development**Sponsored with the unconditional contribution of Regeneron Pharmaceuticals**

Chairpersons: Pier Luigi Canonico, Maria Angela Sortino

- 09:00–09:30** Velocisuite – from target identification to human therapeutic antibodies, addressing limitations and bottlenecks **Teresa Ramirez Montagut**
- 09:30–10:00** The evolution of the R&D technology **Simone Brogi**

Symposium

Mechanism, efficacy and safety of medical devices made of substances: how to win the hurdle run

Chairpersons: Emanuela Corsini, Carla Ghelardini

- 10:00–10:15** MDR 2017/745 and challenges in dossier presentation related to mechanism, efficacy and safety **Emiliano Giovagnoni**
- 10:15–10:30** Clinical studies and evidence of efficacy of substance based medical devices
Vincenzo Calderone

- 10:30-10:45 The elusive concept of non-pharmacological mechanism **Marco Racchi**
 10:45-11:00 The safety of medical device made of substances **Emanuela Testai**

Symposium

Novel targets for cardiometabolic disorders**Sponsored with the unconditional contribution of Eli Lilly**Chairpersons: **Francesco Rossi, Laura Calabresi**

- 11:00-11:20 The role of GLP1RA beyond glycemia **Benedetta Bonora**
 11:20-11:40 Looking for immunometabolic checkpoints in CVD **Fabrizia Bonacina**
 11:40-12:00 Controlling MAFLD to reduce CVD risk **Fabio Nascimbeni**
 12:00-12:15 Clozapine effects on mitochondrial biogenesis and activity in differentiating adipocytes **Gloria Buffi**

Symposium

Beyond Molecules and Routes: Unveiling the True Value of Pharmaceuticals**Sponsored with the unconditional contribution of Biogen**Chairpersons: **Pier Luigi Canonico, Ferdinando Giovanni Maria Nicoletti**

- 14:30-14:50 Unlocking Potential: Exploring Biogen's Pipeline **Paola Marcon**
 14:50-15:10 STEPS to Success: Navigating Conventional Drugs, Biologics and Advanced Therapies in Modern Pharmacology **Ferdinando Giovanni Maria Nicoletti**
 15:10-15:30 From Approval to Access: Evaluating the True Value of Pharmaceuticals **Andrea Marcellusi**

Symposium

Beyond Pharmacogenomics: Blood-Based Biomarkers in CancerChairpersons: **Sarah Cargnin, Jessica Cusato**

- 15:30-15:50 Biomarkers in clinical trial **Massimo Di Maio**
 15:50-16:10 ctDNA in breast cancer **Lorenzo Gerratana**
 16:10-16:30 ctDNA in NSCLC **Marzia Del Re**
 16:30-16:50 Circulating mRNA and Vesicles in Gynecological Cancers **Gloria Ravegnini**
 16:50-17:00 Exploring Pharmacokinetic Variability of Palbociclib in HR+/HER2- Metastatic Breast Cancer: A Focus on Age, Renal Function and Drug/Gene interactions **Elena Peruzzi**

Symposium

Translational approaches in heart failure and cardiometabolic disease**Sponsored with the unconditional contribution of Menarini**Chairpersons: **Francesco Rossi, Gerolamo Sibilio**

- 17:00-17:15 Optimizing Heart Failure Therapy in the view of ESC 2023 Update **Stefania Paolillo**
 17:15-17:30 There is a role for beta-blockers in patients with HFpEF? **Andrea Di Lenarda**
 17:30-17:45 Metabolic Underpinnings in Heart Failure with Preserved Ejection Fraction **Gabriele Schiattarella**
 17:45-18:00 Autophagy and Mitophagy in Chronic Heart Failure **Sebastiano Sciarretta**
 18:00-18:15 Contrasting Myocardial Ageing: from Mice to Men **Konrad Urbanek**
 18:15-18:30 Chromatin Remodeling and Personalized Approach in Chronic Cardiometabolic Disease **Francesco Paneni**

Capri

Oral Communications “Pain Pharmacology”

Chairpersons: Cristina Lanni, Livio Luongo

- 08:30–08:40** Analysis of morphine-THC co-administration effects in human and rodent neuronal cell models in vitro: quantification of MOR-mediated intracellular signaling and MOR-CB1 heteromerization **Monica Baiula**
- 08:40–08:50** Towards development of Nav1.7 channel modulators for pain treatment: a comparison of mexiletine and its pyrroline derivative by automated patch clamp **Alessandro Giovanni Cerchiara**
- 08:50–09:00** Quantitative Systems Pharmacology platform to predict optimal drug combinations for chronic pain: evaluation of morphine and pregabalin potential interaction in neuronal cell models **Elisabetta Cuna**
- 09:00–09:10** Insulin-like Growth Factor Receptor Type-1 in Schwann Cells Regulates Pain in a mouse model of Metastatic Bone Cancer Pain **Lorenzo Landini**
- 09:10–09:20** N-acetylcysteine: more than a mucolytic agent **Nicoletta Marchesi**
- 09:20–09:30** Nociceptin/orphanin FQ receptor as an innovative target for the development of new migraine drugs: *in vivo* study in mice **Chiara Sturaro**

Symposium

The landscape of novel therapeutics in lysosomal storage diseases and glycogenoses: from enzyme replacement therapy to drug repurposing

Chairpersons: Annamaria De Luca, Paola Imbrici

- 09:30–09:50** Drug repurposing in Lafora disease **Giuseppe D'Orsi**
- 09:50–10:10** New therapeutic options for the management of the adult patient affected by Pompe disease **Olimpia Musumeci**
- 10:10–10:30** SglT2 inhibitors in glycogenosis 1b and XI **Francesco Trepiccione**
- 10:30–10:45** Impact of genetic lysosomal acid lipase deficiency on immune phenotype: evidence from naïve and ERT-treated patients **Federica Cetti**
- 10:45–11:00** Drug discovery and repurposing to find a treatment for Lafora Disease, a brain glycogen storage disorder **Giorgia Dinoi**

Symposium

Therapeutic evolution: translate pharmacological innovation in tangible benefit for patients with Hemophilia A**Sponsored with the unconditional contribution of SOBI**

Chairperson: Valentina Drago

- 11:00–12:00** Therapeutic revolution: translate pharmacological innovation in tangible benefit for patients with Hemophilia A **Diego Maria Michele Fornasari, Dario Di Minno**

Symposium

Medication review and deprescribing

Chairpersons: Amelia Filippelli, Gianluca Trifirò

- 14:30–14:48** How to implement Medication Review and Deprescribing Services Across Different Healthcare Settings? Position Statement from an Italian Scientific Consortium **Gianluca Trifirò**
- 14:48–15:06** Deprescribing in nursing homes **Elisabetta Poluzzi**

- 15:06-15:24** Deprescribing in general practice: possible role for clinical pharmacologist?
Simonetta Miozzo
- 15:24-15:42** The experience of medication review e deprescribing service at Academic hospital of Verona **Massimo Carollo**
- 15:42-16:00** Medication review and deprescribing: the industry perspective **Viviana Ruggieri**

Oral Communications "Gender Pharmacology"

Chairpersons: **Luigia Trabace, Ilaria Campesi**

- 16:00-16:10** Gender-specific influence of antibiotic-induced dysbiosis and *Lactocaseibacillus rhamnosus* GG (ATCC 53103) effect on gastrointestinal motility in adolescent mice
Annalisa Bosi
- 16:10-16:20** Human sex differences start in utero: relevance to prenatal care **Ilaria Campesi**
- 16:20-16:30** Addressing sex disparities in pharmacological clinical research: a proposal to overcome current limits **Stefano Grosdani**
- 16:30-16:40** The role of H₂S and NO in sex-based differences in vascular reactivity
Rosangela Montanaro
- 16:40-16:50** Role of sex differences in intestinal morbidities **Simona Pace**

Symposium

Tools and techniques for didactic innovation + General Assembly "Collegio Nazionale Farmacologi Universitari (CNFU)"

Chairpersons: **Maurizio Tagliatela, Carla Ghelardini**

- 17:00-17:05** Introduction **Maurizio Tagliatela**
- 17:05-17:20** Teaching and learning: focus on innovative technologies and methodologies for student engagement **Ivano Eberini**
- 17:20-17:35** Advanced simulation techniques and tools in Medical training: the experience of the Federico II University, School of Medicine and Surgery **Maria Triassi**
- 17:35-17:50** The DidActive project, a proposal for participatory teaching in a traditional educational context **Giuseppe Borzellino**
- 17:50-18:05** ABILITY: from laboratory experience to effective communication...a challenge for students and teachers **Simonetta Ausoni**
- 18:05-18:30** General Discussion and Closing remarks
- 18:30-19:00** **General Assembly "Collegio Nazionale Farmacologi Universitari (CNFU)"**

Auditorium Sirene

LECTURE

Chairpersons: Giuseppe Cirino, Maria Rosaria Bucci

12:15-13:00 Endothelial cell lipid metabolism and vascular diseases
William C. Sessa

Nettuno 1-3

Oral Communications "Pharmacology of obesity and metabolic disorders II"

Chairpersons: Maria Vittoria Micioni Di Bonaventura, Fabrizia Bonacina

- 08:30-08:40 Bergamot polyphenols counteract MAFLD-related hepatic and extrahepatic abnormalities in a mouse model of non-alcoholic fatty liver disease
Antonio Cardamone
- 08:40-08:50 Oleoylethanolamide differentially regulates skeletal and cardiac muscle metabolism in overweight rats
Marzia Friuli
- 08:50-09:00 New insights into the hepatoprotective effect of Empagliflozin in diabetic obese Zucker rats
Stefania Melini
- 09:00-09:10 Targeting NAPE-PLD in obesity associated colon cancer
Maria Francesca Nani
- 09:10-09:20 Metabolic effects of extra-virgin olive oil's polyphenols in a mice model of diet-induced obesity
Chiara Ruocco

Symposium

Targeting the interaction between gut microbiota, mucosa, and neuro-immune system: a new hope in gastrointestinal pharmacotherapy

Chairpersons: Matteo Fornai, Carla Ghelardini

- 09:30-09:50 Inflammasome NLRP3 at the crossroads between gut microbiota, enteric barrier and neuro-immune system in digestive disorders
Laura Benvenuti
- 09:50-10:10 Communication between gut microbiota and neurons: the toll-like story
Maria Cecilia Giron
- 10:10-10:30 Mechanistic insight into the interplay between gut and microbiota responsible for post-inflammatory visceral pain persistence: laying the base for a new therapeutic perspective
Elena Lucarini
- 10:30-10:50 Intestinal inflammation drives persistent and region-specific functional changes within the myenteric neuro-glia circuits of the colon
Luisa Seguella
- 10:50-11:00 Antibiotic-induced leaky gut syndrome promotes the tardive onset of parkinson-like symptoms in mice: potential protective role of Rifaximin
Martina Vincenzi

11:00-12:00

ROUND TABLE

Biomarkers for optimization of therapy of inflammatory bowel disease: from theory to practice

Chairpersons: Marianna Lucafò, Dario Cattaneo, Luca Antonioli

Speakers: Matteo Bramuzzo, Matteo Fornai, Elisabetta Bigagli, Lorenzo Bertani

Symposium

Novel targets and novel mechanisms in immunopharmacologyChairpersons: **Andrea Cignarella, Elisabetta Vegeto**

- 14:30-14:50** Novel strategies targeting bacteria-induced senescence **Loris Rizzello**
- 14:50-15:10** Obesity, stress and neuroinflammation **Maria Grazia Morgese**
- 15:10-15:30** Selective estrogen receptor modulators and innate immunity: novel targets for old drugs **Elisabetta Vegeto**
- 15:30-15:50** Sex- and gender perspectives in immunopharmacology **Andrea Cignarella**
- 15:50-16:00** The interplay between Acute Myeloid Leukemia and neuroinflammation **Marta Febo**

Symposium

Spotlights on emerging approaches in immunopharmacologyChairpersons: **Massimo Collino, Francesca Fallarino**

- 16:00-16:15** IL-23: a new public pathway in the immuno-inflammatory cascade? **Luca Antonioli**
- 16:15-16:30** The clinical value of anti-IL23 antibodies in the management of patients with chronic inflammatory bowel diseases **Edoardo Vincenzo Savarino**
- 16:30-16:45** Repurposing IL-17 as a star target in inflammatory and autoimmune disease **Francesco Maione**
- 16:45-17:00** New frontiers in immunodiabetes prevention and treatment **Ernesto Maddaloni**
- 17:00-17:15** Functional insights into a novel pre-clinical-stage antibody (Ab-IPL-IL-17TM) targeting IL-17A/F for treatment of psoriasis and psoriatic arthritis **Anella Saviano**
- 17:15-17:30** Anti-inflammatory and immunomodulatory activity of glucoraphanin, a natural hydrogen sulfide donor, in inflammatory bowel diseases **Chiara Indolfi**

Oral Communications "Cardiovascular and Pulmonary Pharmacology"Chairpersons: **Alessandra Bitto, Bruno D'Agostino**

- 17:30-17:40** Effects of sacubitril-valsartan and sacubitril/valsartan-dapagliflozin in a model of age-related heart failure **Elena Mele**
- 17:40-17:50** Fenofibrate counteracts the pressure overload-induced cardiac maladaptive remodeling by protecting mitochondria **Benedetta Mercuriali**
- 17:50-18:00** Leukotriene involvement in Sphingosine-1-Phosphate- induced sex dimorphism in asthma features **Ida Cerqua**
- 18:00-18:10** DNA aptamers as novel therapeutic agents for counteract viral infections **Jessica Dellavedova**
- 18:10-18:20** Macrophage-Derived Exosomes Promote Lung Fibroblast Activation in Response to Cigarette Smoke **Renata Esposito**
- 18:20-18:30** Toxicological aspects associated with Electronic Nicotine Delivery System (ENDS) consumption **Fabio Vivivarelli**

Nettuno 4 – sala ECM

Symposium

Emerging trends in New Psychoactive Substances (NPS): From preclinical evidences to clinical perspectives

Chairpersons: Matteo Marti, Liana Fattore

- 09:00–09:20** Sex-specific behavioural, metabolic and immunohistochemical changes after repeated administration of the synthetic cannabinoid AKB48 in mice **Giorgia Corli**
- 09:20–09:40** Role of the serotonin receptor in psychedelic and dissociative NPS **Liana Fattore**
- 09:40–10:00** Genotoxicological characterization of Novel Psychoactive Substances **Monia Lenzi**
- 10:00–10:20** CRF-1 receptors are involved in cardiorespiratory impairment with fentanyl analogues **Sabrina Bilel**
- 10:20–10:30** Chronic treatment with cannabinoids induces synaptic alterations and mitochondrial impairment in immature and mature rat organotypic hippocampal slices **Costanza Mazzantini**

Symposium

New frontiers in treating mental and addictive disorders: unveiling the therapeutic potential and mechanisms of hallucinogens

Chairpersons: Laura Musazzi, Danilo De Gregorio

- 10:30–10:50** Targeting the anxiolytic and anti-addictive properties of lysergic acid diethylamide (LSD) **Danilo De Gregorio**
- 10:50–11:10** Effect of psilocybin and ketamine on alcohol intake and seeking in genetically selected marchigian Sardinian alcohol preferring rats **Nazzareno Cannella**
- 11:10–11:30** Exploring the Long-Term Psilocybin Administration: Unraveling Behavioral and Neuronal Effects **Stefano Comai**
- 11:30–11:50** Multiomic profiling of ketamine rapid antidepressant mechanisms **Laura Musazzi**
- 11:50–12:00** Total and synaptoproteomic changes in the hippocampus of a preclinical model of depression underlying response/non-response to the rapid antidepressant effect of ketamine **Jessica Mingardi**

Symposium

Neurobiology of anorexia nervosa: preclinical and clinical evidence

Chairpersons: Paola Fadda, Lucia Caffino

- 14:30–14:45** Innate and adaptive immune response shift in anorexia nervosa: preclinical and clinical evidence **Francesca Mottarlini**
- 14:45–15:00** Molecular mechanisms inside the activity-based anorexia (ABA) model **Maria Scherma**
- 15:00–15:15** Calorie restriction in anorexia nervosa: experimental findings and neurobiological insights **Enrico Collantoni**
- 15:15–15:30** Role of stress, gonadal hormones, and diet in the Activity-Based-Anorexia Rat model **Stefano Gotti**

Symposium

Impact of chronic stress on the onset and progression of mental disorders: searching for novel pharmacological targetsChairpersons: **Stefania Schiavone, Filippo Caraci**

- 15:30–15:45** Interplay between the immune system and the gut microbiome in the stress-related vulnerability **Annamaria Cattaneo**
- 15:45–16:00** The stress-related neurosteroid allopregnanolone is required for the neurobehavioral complications induced by sleep deprivation **Roberto Frau**
- 16:00–16:15** Social isolation affects skeletal muscles homeostasis: a pilot study in the rat model of psychosocial stress **Giulia Camerino**
- 16:15–16:30** Astrocytes as novel targets for the pharmacological effects of Acetyl-L-Carnitine in chronic stress models **Emanuela Pessolano**

Symposium

Purinergic signaling in cancer and neurodegenerative diseases: towards purine-based therapeutic approachesChairpersons: **Anna Maria Pugliese, Marta Fumagalli**

- 16:30–16:50** Dissecting the role of CD73 in Resistance to BRAF inhibitors in melanoma **Silvana Morello**
- 16:50–17:10** Purine nucleoside metabolism in breast cancer: role of PNP and CD73 as potential biomarkers **Maria Chiara Zuccarini**
- 17:10–17:30** Pharmacological approaches to counteract oligodendrocyte dysfunction in amyotrophic lateral sclerosis via the P2Y-like GPR17 receptor **Stefano Raffaele**
- 17:30–17:50** Opposite roles of adenosine "A2" receptors on myelination depending on their activation on neurons or oligodendroglia **Elisabetta Coppi**


 Nettuno 5

Symposium

New insights on the role of complement in neurological diseases: from preclinic to clinicChairpersons: **Annamaria Pittaluga, Carla Ghelardini**

- 08:30–08:45** Non canonical role of complement in the CNS **Annamaria Pittaluga**
- 08:45–09:00** Targeting the C5a/C5aR1 axis for the management of neuropathic pain **Claudia Cristiano**
- 09:00–09:15** Complement pathways as target of treatment in neurological diseases **Matilde Inglese**
- 09:15–09:30** Pathological implications of anti-GluA3 antibodies in frontotemporal lobar degeneration: from mouse model to rescue strategy **Maria Italia**

LECTURE**Sponsored with the unconditional contribution of SIFI**Chairperson: **Vincenzo Calderone**

- 09:30–10:00** The first drug approved for Acanthamoeba Keratitis and its patients implications **Filippo Drago**

Symposium

Role of complement in rare diseases and targeted therapies: facts and perspectives**Sponsored with the unconditional contribution of Alexion**

Chairpersons: Annamaria De Luca, Pier Luigi Canonico

- 10:00–10:25 Pharmacology in complement-mediated hemolytic disorders
Wilma Barcellini
- 10:25–10:50 Role of complement in Myasthenia Gravis and in other neuromuscular conditions (NMOSD): focus on therapeutic innovation **Raffaele Iorio**
- 10:50–11:15 Complement-mediated kidney diseases, new hopes from new therapies
Loreto Gesualdo
- 11:15–11:30 Potential role of complement in triggering fibrosis in Duchenne muscular dystrophy: how different animal models can help **Lisamaura Tulumiero**

LECTURE**Sponsored with the unconditional contribution of Pharming**

Chairperson: Francesca Fallarino

- 11:30–12:00 Benefit/risk profile of PI3K Inhibitors in rare non-oncological diseases: leniolisib in the APDS case **Filippo Drago**

Symposium

Digital Therapeutics: next generation pharmacology

Chairpersons: Giuseppe Cirino, Elena Paola Lanati

- 14:30–14:50 Introduction to digital therapeutics **Fabrizio Gardoni**
- 14:50–15:10 Digital therapeutics: the European and National frame **Angela Ianaro**
- 15:10–15:30 Digital therapeutics status in Europe and Italy: learnings from digital therapeutics monitoring report **Elena Paola Lanati**

Symposium

Pharmacological biomarker research and tools for the improvement of precision medicine in oncology

Chairpersons: Amelia Filippelli, Giuseppe Toffoli

- 15:30–15:50 Implementation of pharmacogenetics in everyday clinical **Giuseppe Toffoli**
- 15:50–16:10 Therapeutic drug monitoring-based precision drug dosing in oncology: it's time to act **Giorgio Minotti**
- 16:10–16:30 Liquid biopsies for solid tumors: real time detection of early drug resistance
Marzia Del Re
- 16:30–16:50 Real world-associated outcomes with new cancer medicines: toward useful confrontation with results of pivotal trials **Amelia Filippelli**
- 16:50–17:00 An interpretable deep learning approach for predicting improved survival from germline data in first line glioblastoma patients **Alessia Mondello**

Oral Communications "RWE: Focus on Biologics"

Chairpersons: Sandra Donnini, Maria Angela Sortino

- 17:00–17:10 Axicabtagene ciloleucel (axi-cel) for relapsed/refractory (R/R) large B cell lymphoma beside efficacy: data analysis of EudraVigilance database **Alessia Zinzi**
- 17:10–17:20 Exploring Cardiovascular and Respiratory Adverse Drug Reactions of Monoclonal Antibodies for Multiple Myeloma: Insights from the Food and Drug Administration Adverse Event Reporting System **Maria Antonietta Barbieri**

- 17:20-17:30** Switching pattern of biologics in patients with rheumatoid arthritis and spondyloarthritis: results from the Italian multi-regional VALORE distributed database network **Chiara Bellitto**
- 17:30-17:40** Disease-modifying therapies and myelotoxicities: a systematic review of case reports and case series **Valerio Liguori**
- 17:40-17:50** Biological drug switching patterns in inflammatory bowel disease patients: evidence from the Italian multi-regional VALORE distributed database network **Giorgia Pellegrini**
- 17:50-18:00** Neuropsychiatric Adverse Drug Reactions with Monoclonal Antibodies Approved for Multiple Myeloma: An Analysis from the Food and Drug Administration Adverse Event Reporting System **Giulia Russo**
- 18:00-18:10** How are used biological drugs in patients over 65 years with immune-mediated inflammatory diseases through the Italian VALORE distributed database network? **Federica Soardo**
- 18:10-18:20** The potential of the Veneto Region drug registry in monitoring high-cost drug prescriptions and clinical outcomes: a focus on patients with psoriasis **Giacomo Vitturi**
- 18:20-18:30** Rituximab in multiple sclerosis: how to ensure access to an essential medicine **Lucia Gozzo**

Nettuno 6

Symposium

Research and innovation approaches to personalized pharmacotherapies for respiratory diseases

Chairpersons: **Paolo Montuschi, Barbara Ruaro**

- 08:30-08:45** Can capillaroscopy be a driver for the treatment of vascular and lung damage? **Barbara Ruaro**
- 08:45-09:00** Updates on pharmacotherapy of pulmonary fibroses **Marialuisa Bocchino**
- 09:00-09:15** Radiomultiomics for severe asthma molecular phenotyping and endotyping **Paolo Montuschi**
- 09:15-09:30** Updates on pharmacotherapy of severe asthma **Lucrezia Mondini**

Symposium

Innovative solution in clinical pharmacogenomics: multi-omics data and one health approaches

Chairpersons: **Sabrina Angelini, Alessio Squassina**

- 09:30-09:55** Clinical pharmacogenomics: from the analysis of single variants to the use of comprehensive NGS profiling **Erika Cecchin**
- 09:55-10:20** One Health Intelligent systems to counteract antimicrobial resistance **Andrea Buccoliero**
- 10:20-10:45** Multi-omic and pleiotropic analyses in pharmacogenomic research **Claudia Pisanu**
- 10:45-11:00** Drug-induced osteonecrosis of the jaw: the role of drug exposure, pharmacogenetics and oral microbiota **Jessica Cusato**

Symposium

Antimicrobial tailored therapy and stewardship: a new commitment for the clinical pharmacology

Chairpersons: **Federico Pea, Jacopo Angelini**

- 11:00-11:30** The role of clinical microbiology in the tailored therapy goal **Gian Maria Rossolini**
- 11:30-12:00** The added value of the tailored approach for improving the stewardship of antimicrobial therapy **Pierluigi Viale**

Symposium

Pharmacology in Neonates: small size, huge challenges

Chairpersons: Elisabetta Bigagli, Gabriele Stocco

- 14:30–14:45 Treatment with Caffeine in preterm infants **Caterina Coviello**
- 14:45–15:00 microRNAs in intrauterine growth restriction: potential impact on pathophysiology, prevention and treatment **Cristina Luceri**
- 15:00–15:15 Biomarkers for patent ductus arteriosus and therapy response in preterm infants **Elisabetta Bigagli**
- 15:15–15:30 PK/PD analysis of intranasal dexmedetomidine in preterm neonates **Francesca Cossovel**

Symposium

Beyond the Pandemic: the importance of vaccinations and the monitoring of their safety profile

Chairpersons: Marco Tuccori, Gianluca Trifirò

- 15:30–15:45 Vaccines innovations: past, present and future **Ugo Moretti**
- 15:45–16:00 The ShinISS-Vax study: evaluating the safety profile of COVID-19 vaccines **Stefania Spila Alegiani**
- 16:00–16:15 The importance of vaccination and monitoring the safety of HPV vaccines in both females and males **Liberata Sportiello**
- 16:15–16:30 Covid-19 vaccine surveillance among frail population - the COVID Vaccine Monitor project **Nicoletta Luxi**

Symposium

Adaptogens and Immunomodulatory Medicinal Plants for Advancing in Pre-clinical and Clinical science in stress-related disorders

Chairpersons: Marco Biagi, Giovanna Rigillo

- 16:30–16:50 The fascination of complexity: pleiotropic mechanism of adaptogens **Marco Biagi**
- 16:50–17:10 Neuroprotective effect of *Withania somnifera* (L.) Dunal and *Bacopa monnieri* (L.) Wettst by reducing oxidative stress in microglia cells **Nicoletta Galeotti**
- 17:10–17:30 Insight on phytochemistry of *Echinacea* sp. and elucidation of biological activity of different constituents for the immunomodulatory effect **Stefano Dell'Acqua**
- 17:30–17:50 Medicinal plants and microbiota modulation. State of the art and clinical perspectives **Alexander Bertuccioli**
- 17:50–18:00 Alliaceae vs. Brassicaceae for dyslipidemia: systematic review and meta-analysis of clinical studies **Eugenia Piragine**

Tritone

Symposium

Innovative pharmacological aspects of chronic heart failure therapy

Chairpersons: Francesco Paneni, Konrad Urbanek

- 09:00–09:15 The Growing Importance of SGLT2 Inhibitors in Heart Failure Therapy **Antonella De Angelis**
- 09:15–09:30 Chromatin-Modifying Drugs and Inflammation in Cardiometabolic Heart Failure with Preserved Ejection Fraction **Sarah Costantino**
- 09:30–09:45 Gasotransmitters and vascular dysfunction associated with heart failure **Valentina Vellecco**
- 09:45–10:00 Modelling genetic diseases for drug development: Hypertrophic cardiomyopathy **Raffaele Coppini**

- 10:00-10:15** NaHS improves Type-1 diabetes vascular complications modulating H₂S/ROS balance: a novel role for eNOS persulfidation **Martina Smimmo**
- 10:15-10:30** Discussion

Symposium

New possible pharmacological targets for the treatment of eating disorders

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

- 10:30-10:45** Abstinence from palatable food provokes depressive-like and anxiety-like behavior in rats: possible protective role of the endocannabinoid tone
Adele Romano
- 10:45-11:00** Study on the molecular mechanisms underlying binge eating behaviour
Claudio D'Addario
- 11:00-11:15** Does histaminergic neurotransmission play a role in binge-eating disorders?
Gustavo Provensi
- 11:15-11:30** The selective orexin 1 receptor antagonist Nivasorexant blocks compulsive-like over-eating of highly palatable food in a preclinical model of binge eating
Luca Botticelli

LECTURE

Sponsored with the unconditional contribution of Bristol Myers Squibb

Chairpersons: Emilio Clementi

- 11:30-12:00** Medical needs and BMS research **Cosimo Paga**

SIF-Farmindustria Symposium

Data Quality in scientific research: challenges and opportunities

Chairpersons: Marco Zibellini, Giuseppe Cirino

Sponsored with the unconditional contribution of Farmindustria

- 14:30-14:45** Evidence generation and data quality: challenges and opportunities
Anna Maria Porrini, Annalisa Capuano
- 14:45-15:00** Big Data and digital health in Pharmacology **Mario Mangrella, Gianluca Trifirò**
- 15:00-15:15** Real World Evidence in regulatory and clinical decision making
Alessandra Brescianini, Cristiano Chiamulera
- 15:15-15:30** Artificial Intelligence: from research to bedside. The next challenges for the future
Mariangela Amoroso, Giuseppe Cirino
- 15:30-15:45** Privacy and data handling **Luigi Montuori**
- 15:45-16:00** General discussion

Symposium

Anti-inflammatory drugs from naturally derived to synthetic molecules and back: the new frontiers of NSAIDs

Chairpersons: Alessandra Bitto, Emanuela Esposito

- 16:00-16:20** Role of Vasostatin-1 on neuroinflammation in an idiopathic model of autism
Francesca Bosco
- 16:20-16:40** Efficacy of PF06447475, a LRRK2 inhibitor, in the modulation of secondary injury in CNS traumas **Michela Campolo**
- 16:40-17:00** Anti-neuroinflammatory potential of natural products endowed also with peripheral antiinflammatory effects **Sara Merlo**
- 17:00-17:20** Exploiting naturally occurring molecules and their anti-inflammatory potential in rheumatoid arthritis **Natasha Irrera**
- 17:20-17:30** Vortioxetine's potential in modulating the NLRP3 inflammasome: from animal model to an *in vitro* examination towards a targeted depression treatment **Miriam Ciani**

Oral Communications “Pharmacognosy II”

Chairpersons: Mario Dell’Agli, Lara Testai

- 17:30–17:40 Sex-specific behavioural, metabolic and immunohistochemical changes after repeated administration of the synthetic cannabinoid AKB48 in mice **Giorgia Corli**
- 17:40–17:50 Naringenin promotes lysosomal regeneration and restores LDs homeostasis in SPG4 Hereditary Spastic Paraplegia model **Giulia Guarato**
- 17:50–18:00 Nutraceutical application of *Citrus pastazzo* as source of antioxidant and anti-inflammatory plant-complexes for chronic inflammatory bowel diseases **Mariarosaria Ingegneri**
- 18:00–18:10 Ellagic and Punicic acid modulate oxidative stress and neuroinflammation in a MPTP-rat model of Parkinson’s disease **Giovanni Pallio**
- 18:10–18:20 Valorisation of *C. sativa* by-products at intestinal level: a sustainable approach **Carola Pozzoli**

Ulisse**Oral Communications “Rare diseases and orphan drugs”**

Chairpersons: Jean Francois Desaphy, Antonella Scorziello

- 08:30–08:40 Pharmacovigilance of orphan drugs **Mariaconcetta Currò**
- 08:40–08:50 Identification and pharmacological characterization of C4, a new Kv7 channel opener to treat neuronal hyperexcitability disorders **Lidia Carotenuto**
- 08:50–09:00 The orphan medicines pathway from the marketing authorization to reimbursement in Italy. The time-to-market analysis in the period 2022–2023 **Valentina Drago**
- 09:00–09:10 Sex-related Differences in Response to Lomitapide in Homozygous Familial Hypercholesterolemia: a Subanalysis of the Pan-European Lomitapide Retrospective Observational Study **Chiara Pavanello**
- 09:10–09:20 Drug repurposing of fenamates as pharmacological chaperones in myotonia congenita **Paola Laghetti**
- 09:20–09:30 Perineuronal net and parvalbumin expression analysis in fragile X syndrome mice at different developmental stages **Lorenzo Cifarelli**

Oral Communications “Cancer Pharmacology II”

Chairpersons: Elisabetta Panza, Monica Notarbartolo

- 09:30–09:40 The impact of RAS/RAF/SMAD4 mutation profile on tumor response to neo-adjuvant therapy in locally advanced rectal cancer **Noemi Milan**
- 09:40–09:50 The clinical characteristics of EGFR-mutant NSCLC patients predict EGFR-ctDNA shedding **Martina Ruglioni**
- 09:50–10:00 TRPV3 regulates intestinal stemness and its genetic deletion promotes colon cancer **Ester Pagano**
- 10:00–10:10 Metformin induces less aggressiveness and more sensitivity to radiotherapy in OSCC 2D and 3D models **Mariangela Palazzo**
- 10:10–10:20 Identification and characterization of a novel selective HDAC6 inhibitor against triple negative breast cancer **Elisabetta Panza**
- 10:20–10:30 Dexamethasone withdrawal promotes cell proliferation *in vitro* and *in vivo* in glioblastoma multiforme via activation of multiple pro-survival pathways **Simona Ronchetti**
- 10:30–10:40 Preclinical evaluation of progesterone combined with EDP-M scheme in 2D and 3D models of Adrenocortical Carcinoma **Mariangela Tamburello**

- 10:40-10:50** Photodynamic treatment of colon cancer cells through the molecular engineering of a phage nanovector **Eleonora Turrini**
- 10:50-11:00** *In vitro* exposure of human spermatozoa to immune checkpoint inhibitors Ipilimumab, Nivolumab, and Pembrolizumab associates to altered cell motility with no likely involvement of cell apoptosis **Luca De Toni**

Symposium

Pharmaceuticals in the environment: time to make use of what we already know and work towards what we need to knowChairpersons: **Giovanna Paolone, Elisabetta Poluzzi**

- 11:00-11:15** Toward a greener pharmacy: preparation of factsheets on potential environmental risks of pharmaceuticals products to support the environmentally conscious prescription of medicines **Stefano Polesello**
- 11:15-11:30** Strategies for the Environmental Risk Assessment for Pharmaceutical products - Regulatory Perspectives **Carla Landolfi**
- 11:30-11:45** The environmental authorization in a pharmaceutical Industrial site **Stefano Sciarra**
- 11:45-12:00** Interaction between drugs, environment and health: challenges for human health **Valentina Giunchi**

Symposium

Exploring novel pharmacological approaches for chronic pain managementChairpersons: **Patrizia Romualdi, Livio Luongo**

- 14:30-14:50** The imidazoline I1 receptor as a new player for the management of chemotherapy-induced neuropathic pain **Laura Micheli**
- 14:50-15:10** Effects of cannabidiol on the cognitive and emotional modulation of chronic pain: behavioral and molecular correlates **Laura Rullo**
- 15:10-15:30** Novel peptide and non peptide ligands for the mu opioid receptor: are they biased or partial agonists? **Davide Malfacini**
- 15:30 -15:50** Ketone bodies as new players in chronic pain and neuroinflammation **Francesca Guida**
- 15:50-16:00** Novel pharmacological approaches for refractory, chronic migraine: real world evidence and combination of onabotulinumtoxin A and anti-CGRP(R) monoclonal antibodies **Damiana Scuteri**

Symposium

Glymphatic system as a bridge connecting pain, sleep disruption and brain (dys)functionChairpersons: **Lorenzo Di Cesare Mannelli, Cristina Lanni**

- 16:00-16:15** Misalignment in circadian glymphatic system functionality as a driver of neurodegeneration in DSS-driven colitis model **Cristina Lanni**
- 16:15-16:30** Alteration of CSF dynamics in pain conditions: is glymphatic system to blame? **Clara Ciampi**
- 16:30-16:45** Memory consolidation circuit and glymphatic system in sleep **Michela Guglielmotto**
- 16:45-17:00** How to model the glymphatic system using *in vitro* multiorgan-on-a-chip strategies **Simone Perotoni**

Oral Communications “Neuropharmacology II”

Chairpersons: Mariagrazia Grilli, Francesca Calabrese

- 17:30–17:40 Role of adenosine A_{2B} receptors in oligodendroglialogenesis and myelination processes in primary co-cultured cells **Federica Cherchi**
- 17:40–17:50 NLRP3 inflammasome as a new target for migraine treatment: a genetic and pharmacological study in mice **Chiara Ruzza**
- 17:50–18:00 Activity-based anorexia induces central maladaptive plasticity dysregulating the muscle-to-brain Irisin/BDNF neurometabolic axis **Susanna Parolaro**
- 18:00–18:10 Looking for a druggable target to counteract binge-like eating behavior in rats **Marta Valenza**
- 18:10–18:20 Myrcene ameliorates central sequelae induced by Mild Traumatic Brain Injury in rodents **Carmela Belardo**
- 18:20–18:30 Non-competitive NMDA receptor antagonism counteracts acute stress-induced spatial memory deficits in a sex-dependent manner **Sebastiano Alfio Torrisi**

Capri**Oral Communications “Neuropharmacology I”**

Chairpersons: Elena Marcello, Elisabetta Gerace

- 08:30–08:40 The anti-CGRP mAb Fremanezumab reverts the anti-inflammatory effects of CGRP *in vitro* but does not alter disease evolution in a mouse model of progressive multiple sclerosis **Daniela Buonvicino**
- 08:40–08:50 Mitochondria as cellular hub in neonatal hypoxic-ischemic encephalopathy: identification of melatonin-responsive biomarkers predicting brain damage severity **Silvia Carloni**
- 08:50–09:00 Mouse brain organoids as a therapeutic drug screening model for Allan Herndon Dudley Syndrome (AHDS) **Francesca Ciarpella**
- 09:00–09:10 Nrf2 and ELAVL1/HuR as Key Factors in the VEGF Gene Expression Regulation and Retinal Pigment Epithelium Stress Response. A New Inset in the AMD-Underlying Pathophysiologic Mechanisms **Marialaura Amadio**
- 09:10–09:20 Environmental quality modulates the endocannabinoid system along the gut-brain axis in a mouse model of LPS-induced neuroinflammation **Giovanna Rigillo**
- 09:20–09:30 Role of tumour necrosis factor (TNF)- α -stimulated gene 6 (TSG-6) in a mouse model of cerebral ischemia caused by middle cerebral artery occlusion **Chiara Di Santo**
- 09:30–09:40 Neurodegeneration after brain ischemia in aged mice: beneficial effects of Montelukast **Majeda Muluhie**
- 09:40–09:50 Deciphering the time-dependent peripheral effects on brain dynamics in a mouse recovery model from DSS-induced colitis **Federica Comella**

Symposium

The evolution of mutational analysis in clinical, pharmacological and organizational aspects: opportunities and implications for the system

Chairpersons: Viviana Ruggieri, Armando Genazzani

- 10:00–10:20 Mutational Oncology between Real World Evidence and Artificial Intelligence **Nello Martini**
- 10:20–10:40 New opportunities and tools for pharmacology **Marzia Del Re**
- 10:40–11:00 Patient access to treatment and testing **Carmine Pinto**

11:00-11:20 Facts and figures of the compassionate use of onco-hematological drugs from 2016 to 2021: results from the multicentric Italian study Compass-O

Annamaria Mascolo

11:20-11:30 Discussion

Symposium

Current approaches to the integration of gender-specific pharmacology in teaching

Chairpersons: **Luigia Trabace, Marina Ziche**

14:30-14:50 Teaching Gender-Specific Medicine in Academy: the Padua experience

Andrea Cignarella

14:50-15:10 Gender Pharmacology and Students Orientation: can it help? **Sandra Donnini**

15:10-15:30 Innovative teaching strategy in gender pharmacology **Luigia Trabace**

Oral Communications "Overview on Antibiotics & Antivirals"

Chairpersons: **Alberta Bergamo, Gianluca Gazzaniga**

15:30-15:40 Antimicrobials' plasmatic levels according to renal clearance: a retrospective analyses among crrt vs not-crrt icu patients **Stefano Agliardi**

15:40-15:50 The role of Therapeutic Drug Monitoring to optimize the ceftazidime/avibactam exposure in a real-world setting **Jacopo Angelini**

15:50-16:00 Dalbavancin Therapeutic Drug Monitoring in patients requiring long-term treatment: a Population Pharmacokinetic analysis **Giammarco Baiardi**

16:00-16:10 Management of HIV-infected patients with comorbidities: the role of the clinical pharmacologist **Danilo Donnarumma**

16:10-16:20 The prognostic role of therapeutic monitoring of vancomycin during the first week of target therapy: a retrospective study **Sara La Palombara**

16:20-16:30 Humoral and T-cell response to SARS-CoV-2 mRNA vaccine in multiple sclerosis patients: Correlations with DMTs and clinical variables **Vincenzo Rania**

16:30-16:40 Assessing the value of new antibiotics: Analysis of Health Technology Assessments of Three European Countries Giovanni **Luca Romano**

16:40-16:50 Valacyclovir in pregnancy: prevention and treatment of congenital cytomegalovirus infection **Cesare Mancuso**

16:50- 17:00 Antibiotics sex-related variability in TDM **Alessandra Romandini**

17:00-18:30 **General Assembly "Sezione di Farmacologia Clinica"**

Auditorium Sirene

11:45-13:00 Conclusions and Awards

Nettuno 1-3

Symposium

Joint Academic Conference of SCITCM of WFCMS and Italian Pharmacological Society

Chairpersons: Junping Kou, Ming Hong, Emilio Clementi, Lorenzo Di Cesare Mannelli

- 09:00-09:20 Pharmacological mechanisms of sinomenine in anti-inflammatory immunity and osteoprotection in rheumatoid arthritis **Hua Zhou**
- 09:20-09:40 Targeting glycolysis reprogramming via LDHA inhibition by Tangeretin antagonizes Macrophages M1 polarization for the treatment of rheumatoid arthritis **Ying Xie**
- 09:40-10:00 Research for osteoimmune diseases treatment by targeting osteoclast precursor cells **Xiao-Juan Li**
- 10:00-10:20 Identification of a novel therapeutic target to treat autoimmunity via controlling Th17 cell response **Ting Li**
- 10:20-10:40 Bergamot juice promotes the differentiation of leukemic cells by an autophagy-dependent Mechanism **Caterina Russo**
- 10:40-11:00 Chemical Profile and Biological Activities of ten Salvia Species **Nilofar Nilofar**

Nettuno 4 – sala ECM**Oral Communications “RWE: new updates in onco-hematology, pain management and diabetes”**

Chairpersons: Marco Tuccori, Ylenia Ingrasciotta

- 08:30-08:40 Assessing the generalizability and treatment with sodium-glucose co-transporter-2 inhibitors (SGLT2i) in patients with Type 2 diabetes: Insights from an Italian primary care database **Davide Rozza**
- 08:40-08:50 Pharmacovigilance of Cannabidiol: Analysis of Eudravigilance Data **Fabrizio Calapai**
- 08:50-09:00 The early access and the cost savings by the compassionate use of onco-haematological drugs: results from the Italian study Compass-O **Irene Dell'Anno**
- 09:00-09:10 Autoimmune inflammatory rheumatic diseases following COVID-19 vaccination: a comparative pharmacovigilance analysis from Eudravigilance database **Federica Fraenza**
- 09:10-09:20 Utilization and safety monitoring of antineoplastic drugs in pediatric onco-hematology: a pharmacovigilance study (ONCO-PED-2020) **Salvatore Spoto**
- 09:20-09:30 Rimegepant effectiveness and tolerability as acute migraine treatment (GAINER): a real-world multicentric Italian study **Luigi Francesco Iannone**

Symposium

Novel drug candidates targeting phosphodiesterase (PDE) families 4 and 9 as an emerging strategy for cell survival and CNS diseases

Chairpersons: Domenico Edoardo Pellegrini-Giampietro, Maurizio Memo

- 09:30-09:50 Phosphodiesterases and epilepsy: neuroprotective effects of PDE9 inhibition against kainate-induced neurotoxicity in *in vitro* models **Elisa Landucci**
- 09:50-10:10 Virtual screening accelerates the discovery of PDE9 inhibitors against neurodegeneration **Alessandra Gianoncelli**

- 10:10–10:30 Design and synthesis of new chemotypes to inhibit different PDE4 isoforms
Chiara Brullo
- 10:30–10:50 *In vitro* screening of novel PDE4 inhibitors as neuroprotective agents
Sara Anna Bonini
- 10:50–11:00 Discussion

Nettuno 5

Symposium

Impact of drug abuse on neurodevelopment trajectory: from molecular mechanisms to behavior

Chairpersons: **Elisabetta Gerace, Guido Mannaioni**

- 08:30–08:50 Effects of prenatal ethanol exposure on adolescent brain: molecular, functional and behavioral analyses **Elisabetta Gerace**
- 08:50–09:10 Prelimbic synaptic markers of alcohol addiction-like behavior in rats **Ana Domi**
- 09:10–09:30 Neurochemical and behavioural consequences of adolescence JWH-018 inhalation in rats **Nicholas Pintor**
- 09:30–09:50 Impact of social hierarchy on a choice model between oxycodone and social interaction in male and female rats **Anna Maria Borruto**
- 09:50–10:00 Long-lasting effects of prenatal Cannabis exposure on neurodevelopment in rat **Serena Di Martino**

Symposium

The impact of environment on substance abuse vulnerability and progression

Chairpersons: **Fabio Fumagalli, Nazzareno Cannella**

- 10:00–10:20 Propensity to cocaine addiction in rats selected for low and high sensory processing sensitivity: the role of glutamate **Lucia Caffino**
- 10:20–10:40 Neural basis of social isolation on individual vulnerability to develop alcohol use **Esi Domi**
- 10:40–11:00 The protective effect of social reward on drug reward and relapse **Daniele Caprioli**
- 11:00–11:20 Enriched environment effects vs. highly palatable food: translational studies in rodents and humans **Cristiano Chiamulera**
- 11:20–11:30 Chronic alcohol exposure induces mechanical allodynia by promoting spinal microgliosis in dependent male and female mice **Vittoria Borgonetti**

Nettuno 6

Oral Communications “Pharmacology of Neurodegenerative Diseases II”

Chairpersons: **Anna Maria Pittaluga, Giovanna Paolone**

- 08:30–08:40 Effect of NLRP3 inhibition in a rotenone-induced Parkinson’s Disease murine model **Ana Leticia Julio de Souza**
- 08:40–08:50 Mechanisms driving oligodendrocyte precursor cells to myelinating oligodendrocytes: focus on the P2Y-like receptor GPR17 **Davide Marangon**
- 08:50–09:00 Impairment of gustatory processing in a mouse model of Alzheimer’s disease **Andrea Mastio**
- 09:00–09:10 Effect of a diet supplementation with LXR agonists-containing Himanthalia elongata and Sargassum Fusiforme extracts on cognitive function in AD mice models **Marcella Palumbo**

09:10-09:20 Modulation of autophagy by N-acylethanolamines: neuroprotective effects of PEA and OEA in a murine model of Parkinson' disease **Irene Paterniti**

09:20-09:30 Microglia pruning of nerve endings isolated from the cortex and the hippocampus of EAE mice: relevance to the disease **Alice Taddeucci**

Symposium

Pain and behavioural disturbances: new pathogenetic insights for better pharmacological control

Chairpersons: **Francesca Guida, Damiana Scuteri**

09:30-09:45 Role of Prokineticin 2 and Prokineticin receptors in neuropathic pain modulation: new potential therapeutic targets **Martina Vincenzi**

09:45-10:00 Effects of CXCR1/2 axis modulation in the control of STZ-induced type 1 diabetes and comorbidities **Serena Boccella**

10:00-10:15 Molecular strategies for improved treatment of pain and comorbid anxiety/ depression: from developing innovative opioid ligands to Quantitative Systems Pharmacology **Andrea Bedini**

10:15-10:30 Clinical evidence supports intervention with NanoBEO in the control agitation in severe dementia **Damiana Scuteri**

Symposium

Unmet medical needs in the management of tardive dyskinesia

Sponsored with the unconditional contribution of TEVA

Chairpersons: **Pier Luigi Canonico, Filippo Caraci**

10:30-10:55 Tardive dyskinesia, a neglected disease: how to improve its diagnosis and clinical management **Michele Tinazzi**

10:55-11:20 Tardive dyskinesia: underlying pathophysiological mechanism **Filippo Caraci**

11:20-11:30 Closing remarks **Pier Luigi Canonico**

Tritone

Oral Communications "Overview of Therapeutic Drug Monitoring"

Chairpersons: **Jessica Cusato, Elisabetta Poluzzi**

08:30-08:40 A method for the simultaneous determination of the five isomers of Dalbavancin, a long-acting antibiotic, in human plasma samples **Albino Coglianesse**

08:40-08:50 Fully automated sample preparation for the quantification of cannabidiol and its active metabolite 7-hydroxy-cannabidiol in serum **Valentina Franco**

08:50-09:00 Development of a rapid LC-MS/MS method for Ceftaroline and its metabolite M-1 measurement in biological fluids **Michele Senatore**

09:00-09:10 Long-term assessment of the safety profile of Epidyolex®: analysis of THC plasma levels **Giuliana Cangemi**

09:10-09:20 Mycophenolic acid population pharmacokinetics and probability of target attainment in adult heart transplant patients **Francesco Lo Re**

Symposium

The pharmacology in the preclinical and clinical era of transgender medicineChairpersons: **Vincenzo Cuomo, Marina Ziche, Luigia Trabace**

- 09:30–09:45** The health of the transgender population: from research to communication
Matteo Marconi
- 09:45–10:00** Sex chromosome complement influences sex differences in metabolic disease and adverse drug effects **Karen Reue**
- 10:00–10:15** Experience of the Gender Clinic in the University Hospital of Salerno
Federica De Rosa
- 10:15–10:30** Pharmacotherapy related to gender transition care: mechanism and efficacy
Emma Mitidieri


 Ulisse
Oral Communications “Pediatric Pharmacology”Chairpersons: **Gabriele Stocco, Elisabetta Bigagli**

- 08:30–08:40** LKB1 as a disease-specific player in Duchenne Muscular Dystrophy pathogenesis: novel insights from animal models and patients-derived cells **Brigida Boccanegra**
- 08:40–08:50** Human iPSC-derived Neural Progenitor Cells as Drug Discovery Tool for Maternally Inherited Leigh Syndrome **Emanuela Bottani**
- 08:50–09:00** Targeting androgen receptor degradation in Spinal and Bulbar Muscular Atrophy through PROteolysis TARGETing Chimeras: Differential degradation pattern of AF-2 domain binder-based compounds **Luca De Toni**
- 09:00–09:10** Deciphering the role of endocannabinoids and related molecules in amyotrophic lateral sclerosis combining preclinical and clinical research **Emanuele Di Martino**
- 09:10–09:20** Defective gut microbial N-acyl amides exacerbate skeletal muscle and neuronal ferroptosis in mouse and human models of Duchenne Muscular Dystrophy
Fabio Arturo Iannotti
- 09:20–09:30** Preclinical evaluation of JMV2894, a growth hormone secretagogue, in dystrophic D2-mdx mice, discloses new potential actions versus the expected anti-fibrotic one
Paola Mantuano

Symposium

Therapeutic applications of microvesicles and microparticles in the context of immunopharmacologyChairpersons: **Vincenzo Brancaleone, Francesco Maione**

- 09:30–09:50** Cellular Dialogue: Novel Insights into Immune System Dynamics with Extracellular Vesicles **Francesca Fallarino**
- 09:50–10:10** Evidence for the utility of resolution pharmacology as a novel paradigm in treating inflammatory disorders **Jasmond Dalli**
- 10:10–10:30** Extracellular vesicles: cell- derived bio products for therapeutic applications
Benedetta Bussolati
- 10:30–10:45** Layered Double Hydroxide Nanoparticles: A Promising Platform for Nucleic Acid Delivery in Gene Therapy **Doriana Ricciuti**
- 10:45–11:00** The systemic administration of extracellular vesicles derived from mesenchymal stem cells exerts therapeutic effects on amyotrophic lateral sclerosis **Matilde Balbi**

Capri

Oral Communications “Inflammation Pharmacology II”

Chairpersons: Emanuela Esposito, Marina Camera

- 08:30-08:40** Central role of low-grade inflammation in mediating the β 2GPI-dependent IgG effect on the platelet activation phenotype characteristic of patients with antiphospholipid syndrome **Marina Camera**
- 08:40-08:50** Inhibition of soluble epoxide hydrolase as potent pharmacological strategy of acute pancreatitis treatment **Danilo D’Avino**
- 08:50-09:00** Major Adverse Cardiovascular Events related to JAK inhibitors: a disproportionality analysis using WHO global individual case safety database **Raffaella Di Napoli**
- 09:00-09:10** An evaluation of CB2 and TRPV1 receptors in circulating macrophages in pediatric/young adults affected by sickle cell anemia: from inflammatory state to pain development **Alessandra Di Paola**
- 09:10-09:20** Alterations in neuroinflammation-related pathways induced by unburned tobacco smoke in the rat mesolimbic system **Camilla Morosini**
- 09:20-09:30** The interactions between hyaluronic acid and extracellular vesicles in osteoarthritis: new evidences and therapeutic implications **Piero Sestili**
- 09:30-09:40** Tackling Tumor Immune Microenvironment Metabolism: Unveiling IL4i1’s Role and Therapeutic Potential **Marco Gargaro**
- 09:40-09:50** The orphan nuclear receptor nr2f6 a novel regulator of cancer immune responses **Giorgia Manni**

Symposium

Marine Pharmacology: new opportunities for human health

Chairpersons: Paola Nieri, Roberta D’Emmanuele di Villa Bianca

- 09:50-10:05** From the Ocean to the Lab: investigation of the neuroprotective effects of *Polycarpa aurata* and *Sidhyum elegans* derivatives in pre-clinical models of cisplatin-induced neurotoxicity **Daniel Venturi**
- 10:05-10:20** Searching for Novel Sources of Hydrogen Sulfide Donors: Chemical Profiling of *Polycarpa aurata* Extract and Evaluation of the Anti-inflammatory Effects **Roberta D’Emmanuele di Villa Bianca**
- 10:20-10:35** Bioactive molecules from marine diatoms and their possible applications in the pharmaceutical and nutraceutical fields **Valerio Zupo**
- 10:35-10:50** Marine nutraceuticals for the cardiometabolic diseases **Lara Testai**

POSTER SESSION



POSTER SESSION I

November 14th

from **13.00** to **14.30**

Pharmacovigilance, Pharmacoepidemiology, Pharmacoeconomics & RWE I

Chairperson: Paola Cutroneo

- PI-1** A cohort study using Danish registries on new diagnoses of dementia or cognitive impairment in elderly diabetic patients treated with dipeptidyl peptidase-4 inhibitors and glucagon-like peptide-1 analogues
Battini Vera, Barbieri Maria Antonietta, Clementi Emilio, Carnovale Carla, Sessa Maurizio
- PI-2** Cardiovascular risk of intravitreal anti-VEGF drugs: a scoping review of observational studies
Ciccone Valerio, Santoni Francesca Maria, Virgili Gianni, Spini Andrea, Donnini Sandra
- PI-3** Alert Organisms surveillance in a hospital setting: preliminary data from a health records based study
Cristiano Federica, Rottura Michelangelo, Giuseppe Cicala, Gianguzzo Viviana Maria, Genovese Giovanni, Caliò Sarina Maria, Arcoraci Vincenzo
- PI-4** Adverse drug reactions in elderly hospitalized patients: preliminary results from the SafeWARDS (SAfety for Frail Elderly in hospital WARDS)
Gianguzzo Viviana Maria, Drago Selene Francesca Anna, Rottura Michelangelo, Cristiano Federica, Irrera Erica, Squadrito Giovanni, Arcoraci Vincenzo
- PI-5** Antidepressants use in hospitalized elderly patients: Observational study from the REPOSI Register
Giorgi Domenico Antonio, Rottura Michelangelo, Molonia Antonino, Drago Selene Francesca Anna, Irrera Erica, Corrao Salvatore, Arcoraci Vincenzo
- PI-6** Evaluation of antimicrobial drugs use according to AWaRe classification in elderly hospitalized patients
Molonia Antonino, Nasso Chiara, Rottura Michelangelo, Drago Selene Francesca Anna, Irrera Natasha, Corrao Salvatore, Arcoraci Vincenzo
- PI-7** Safety of fingolimod in patients with relapsing remitting multiple sclerosis: A Descriptive Analysis of data from the EudraVigilance database
Nikitina Victoria, Santi Laurini Greta, Montanaro Nicola, Motola Domenico
- PI-8** Polypharmacy management in chronic conditions: a systematic literature review of Italian interventions
Perrella Lara, Mucherino Sara, Casula Manuela, Illario Maddalena, Orlando Valentina, Menditto Enrica
- PI-9** Real word utilization and security of infusive antineoplastic drugs for advanced melanoma combining data of University Hospital of Siena
Santoni Francesca Maria, Ciccone Valerio, Simonis Vittoria, Sgalambro Edoardo, Petrini Giulio, Bianco Maria Teresa, Bellan Cristiana, Spini Andrea, **Donnini Sandra**
- PI-10** Disproportionality analysis on FAERS® for signals of pericardial and myocardial events associated with antiangiogenic drugs
Santoni Francesca Maria, Spini Andrea, Ciccone Valerio, Flaccavento Alessandra, Tuccori Marco, **Donnini Sandra**
- PI-11** Profilo di sicurezza del *Ginkgo biloba*: reazioni avverse in Eudravigilance
Ammendolia Ilaria, Calapai Fabrizio, Currò Mariaconcetta, Mannucci Carmen, Cardia Luigi, Esposito Emanuela, Calapai Gioacchino
- PI-12** Comparison of injective related reactions (IRRs) following ofatumumab and ocrelizumab in patients with multiple sclerosis: data from the European spontaneous reporting system
Scavone Cristina, **Anatriello Antonietta**, Baccari Isabella, Cantone Andrea, Di Giulio Cesare Daniele, Bernardi Francesca Futura, Moreggia Ornella, Liguori Valerio, Andreone Vincenzo, Maniscalco Giorgia Teresa, Capuano Annalisa

Pharmacovigilance, Pharmacoepidemiology, Pharmacoeconomics & RWE II

Chairperson: Cristina Scavone

- PI-14** Questionnaire-based survey investigating ADR spontaneous reporting knowledge, experiences and attitudes in Italian oncology wards
Bonaso Marco, Berti Elena, Calabrò Concetta, Orzetti Sabrina, Baldo Paolo, Tuccori Marco,
- PI-15** Comprehensive Analysis of AHA Risks Associated with COVID-19 Vaccines: Insights from Tuscany, Italy
Cappello Emiliano, Convertino Irma, Bonaso Marco, Ferraro Sara, Franchini Massimo, Moretti Ugo, Focosi Daniele, Roberto Giuseppe, Paoletti Olga, Hyeraci Giulia, Gini Rosa, Tuccori Marco
- PI-16** Sexual dysfunction associated with proton pump inhibitors: insights from a pharmacovigilance study of VigiBase
Ciccimarra Francesco, Crisafulli Salvatore, Scapini Fabio, Spini Andrea, Trifirò Gianluca
- PI-17** Investigating the Impact of Co-Exposure Timing on Drug-Drug Interactions in Signal Detection Using Spontaneous Reporting System Databases: A Scoping Review
Cocco Marianna, Carnovale Carla, Clementi Emilio, Barbieri Maria Antonietta, Battini Vera, Sessa Maurizio
- PI-18** Switching proportion assessment in rheumatoid arthritis patients exposed to disease modifying anti-rheumatic drugs: systematic review and meta-analysis
Convertino Irma, Lucenteforte Ersilia, Arzenton Elena, Giometto Sabrina, De Luca Giulia, Ferraro Sara, Bonaso Marco, Cappello Emiliano, Cazzato Massimiliano, Moretti Ugo, Mosca Marta, Gini Rosa, Tuccori Marco
- PI-19** Safety profile of biological therapies for Type-2 high allergic conditions in pediatrics: an analysis of VigiBase®, the WHO spontaneous reporting database
Maccarrone Francesco, Luxi Nicoletta, Furci Fabiana, Scapini Fabio, Trifirò Gianluca, Cutroneo Paola Maria
- PI-20** Safety monitoring of vaccines in the pediatric population: an active pharmacovigilance study
Nasso Chiara, Molonia Antonio, Rottura Michelangelo, Cutroneo Paola Maria, Pollicino Antonio, Di Nola Antonietta, Sidoti Antonio, Arcoraci Vincenzo, Irrera Natasha
- PI-21** A prick is enough! Therapeutic drug monitoring of antiseizure medication through capillary microsampling devices
Cancellerini Chiara, Caravelli Alice, Esposito Erika, Belotti Laura Maria Beatrice, Soldà Martina, Locatelli Nicolò, Vignatelli Luca, Mostacci Barbara, Fiori Jessica, Bisulli Francesca, Lichetta Laura
- PI-22** Embracing the Healthcare Digital Revolution: pioneering an Ethical and Legal framework for Individual Participant Clinical Data Return
Rivi Veronica, Tascetta Fabio, Pani Luca, Blom Johanna Maria Catharina
- PI-23** Safety and tolerability of inclisiran: pharmacovigilance study from EudraVigilance database
Rottura Michelangelo, Cicala Giuseppe, Gianguzzo Viviana Maria, Cristiano Federica, Drago Selene Francesca Anna, Irrera Erica, Arcoraci Vincenzo

Miscellaneous I

Chairperson: Marco Racchi

- PI-24** Melatonin and melatonin-derived H₂S-containing compounds act as new Kv7.4 activators
Belperio Giorgio, Ambrosino Paolo, Soldovieri Maria Virginia, Servetini Ilenia, Magli Elisa, Fiorino Ferdinando, Tagliatela Maurizio
- PI-25** Mapping peripheral biological pathways associated with long-lasting effects of early life stress: a transcriptomic set-based approach
Bottanelli Chiara, Vitali Erika, Marizzoni Moira, Saleri Samantha, Riva Marco Andrea, Cattaneo Annamaria
- PI-26** Detailed *in vitro* pharmacological characterization of the clinically viable NOP receptor ligand Sunobinop
Camilotto Riccardo, Frezza Alessia, Ramalingam Rahul, Sturaro Chiara, Pacifico Salvatore, Ruzza Chiara, Malfacini Davide, Whiteside Garth, Calò Girolamo

- PI-27** Expression and function of the C-terminal tail of the dopamine D2 receptor in living cells
Carli Marco, Petragnano Francesco, Rossi Mario, Lòpez-Cano Marc, Biso Letizia, Maggio Roberto, Ciruela Francisco, Scarselli Marco
- PI-28** NAT2 acetylator status is a crucial risk factor for anti-tuberculosis drug induced hepatotoxicity
Cheli Stefania, Torre Alessandro, Schiuma Marco, Civati Aurora, Galimberti Miriam, Battini Vera, Mariani Ilaria, Mosini Giulia, Carnovale Carla, Radice Sonia, Clementi Emilio, Gori Andrea, Antinori Spinello
- PI-29** Results of toxicologic screening tests in drivers involved in road accidents in the last 5 years
Cimino Adriana, Basile Valerio, Bitto Alessandra, Minutoli Letteria
- PI-30** The gliadin peptides p31-43 and p57-68 induce differential pattern of neurotoxicity in *in vitro* model of kainate-induced epilepsy
Curti Lorenzo, Resta Francesco, Di Domizio Alessandro, Becatti Matteo, Renzi Daniela, Calabrò Antonino, Mannaioni Guido, Gerace Elisabetta
- PI-31** Beyond Daily Pills: Assessing LAI CAB/HPV Treatment in HIV Management
D'Amico Federico, Inglese Elvira, Rossotti Roberto, Bana Nicholas Brian, Molioli Maria Cristina, Raimondi Alessandro, Chianura Leonardo, Danesi Romano, Puoti Massimo
- PI-32** Antibiotic Stewardship: Post-Prescription Review of Antibacterial Therapies with Carbapenems and Anti-CRE Agents
D'Amico Federico, Merli Marco, Crippa Fulvio, Oltolini Chiara, Travi Giovanna, De Pasqual Elisa, Puoti Massimo
- PI-33** Mapping of Data-Sharing Repositories for Paediatric Clinical Research
D'Ercole Annunziata, Felisi Mariagrazia, Bonifazi Fedele, Toma Maddalena, Pansieri Claudia, Leary Rebecca, Hedley Victoria, Cornet Ronald, Reggiardo Giorgio, Landi Annalisa, Malik Salma, Nally Sinéad, Sen Anando, Palmeri Avril, Bonifazi Donato, Ceci Adriana
- PI-34** Hydroxyurea pharmacokinetics and pharmacogenetics: tools to optimize treatment in patients
Di Grazia Daniela, Mirabella Cristina, **Chiara Francesco**, Caudana Maura, Shelton Agar Francesco Maximillian Anthony, Zanatta Marina, Allegra Sarah, Bertello Jenni, Voi Vincenzo, Abbadessa Giuliana, De Francia Silvia
- PI-35** The C-terminus of the prototypical M2 muscarinic receptor localizes to the mitochondria and regulates cell respiration under stress conditions
Fasciani Irene, Petragnano Francesco, Rossi Mario, Aloisi Gabriella, Carli Marco, Scarselli Marco, Annibale Paolo, Maggio Roberto
- PI-36** Evaluation of the future impact of immuno-oncology introduction on cancer mortality in Italy
Fiorentino Francesca, **Mezzanotte Claudia**, Zapparelli Giuseppina, Didoni Guido, Urbinati Duccio
- PI-37** Device-Vigilance applied locally through a shared operational plan between the Regional Health Coordination Agency (ARCS) and the Institute for Maternal and Child Health IRCCS Burlo Garofolo in Trieste
Flamigni Anna, **Parzianello Anna**, Zanier Monica, Distefano Laura, Mattioni Laura, Trojniak Marta Paulina, Arbo Anna

Miscellaneous II

Chairperson: Lucia Caffino

- PI-38** Modulation of Na⁺/H⁺ (NHE)3 exchanger expression in the renal proximal tubular cell line HK-2 by histamine
Gerbino Chiara, Foglietta Federica, Benetti Elisa, Rosa Arianna Carolina
- PI-39** Different social isolation exposure induce selective behavioural and molecular changes in zebrafish larvae
Gilardini Federica, Piccinini Alessandro, Merola Carmine, Amorena Michele, Perugini Monia, Lucon-Xiccato Tyrone, Andrei Georgiana, Bertolucci Cristiano, D'Addario Claudio
- PI-40** Tumour Treating Fields therapy for Glioblastoma: Health Technology Assessment
Guarnieri Greta, Puleo Greta, Mantione Rocco, Sterpetti Martina, Silvani Antonio, Colombo Paola, Sabatino Giuliana
- PI-41** Role of neuronal Kv7 channels in Angiotensin II-induced modulation of central sympathetic tone
Iervolino Stefania, Celentano Camilla, Mariano Anna, Carleo Giusy, Guida Natascia, Miceli Francesco, Tagliatela Maurizio, Barrese Vincenzo

- PI-42** Pain Management in Surgically Treated Osteoarthritis: Investigating Mu Receptors as an Innovative Diagnostic Approach
Ilari Sara, Malafoglia Valentina, Familiari Filippo, Tenti Michael, Passacatini Lucia Carmela, Macri Roberta, Nucera Saverio, Scarano Federica, Pileggi Claudia, Mollace Vincenzo, Galasso Olimpio, Gasperini Giorgio, Raffaelli William, Muscoli Carolina
- PI-43** Monitoring clinical research: report of a Local Ethics Committee's experience
 Irrera Pierangela, Calapai Fabrizio, **Curò Mariaconcetta**, Rottura Michelangelo, Arcoraci Vincenzo, Calapai Gioacchino
- PI-44** Mu Opioid Receptor on Immune Cells as Hypothetical Biomarker for Fibromyalgia Patients with Widespread Pain: A Longitudinal Study
 Malafoglia Valentina, **Ilari Sara**, Tenti Michael, Vitiello Laura, Lupacchini Leonardo, Passacatini Lucia Carmela, Tomino Carlo, Iannuccelli Cristina, Gioia Chiara, Di Franco Manuela, Raffaelli William, Muscoli Carolina
- PI-45** The effects of photoswitchable compounds in transfected HEK293T cells and in a transient ocular hypertension (OHT) model using New Zealand White (NZW) rabbits
Marri Silvia, Sgambellone Silvia, Villano Serafina, De Dios Palomino Villcas Juan, Masini Emanuela, Zheng Yang, Leurs Rob, Lucarini Laura
- PI-46** Pulmonary toxicity of polystyrene nanoplastics in human bronchial epithelial cells grown at the air-liquid interface
Milillo Cristina, Gatta Marco, Dovizio Melania, Aruffo Eleonora, Di Carlo Piero, Parron Ballesteros Jorge, Bruno Annalisa, Ballerini Patrizia, Batanero Cremades Eva
- PI-47** Two Years of Active Pharmacovigilance Surveillance and Therapeutic Reconciliation in Frail Populations: The MEAP 3.0 Study
Mosini Giulia, Mariani Ilaria, Cheli Stefania, Bombelli Anna, Guarnieri Greta, Battini Vera, Cocco Marianna, Carnovale Carla, Lombardi Niccolò, Spina Edoardo, Crescioli Giada, Cicala Giuseppe, Rafaniello Concetta, Sullo Maria Giuseppa, Clementi Emilio, Radice Sonia
- PI-48** Ethical, scientific and regulatory aspects of the width of non-inferiority margins in clinical drug trials of the last decades
Nikitina Victoria, Santi Laurini Greta, Montanaro Nicola, Motola Domenico
- PI-49** Impact of simulated microgravity on pancreatic ductal adenocarcinoma (PDAC) cells treated with Trichostatin A
Pagano Corinna Anais, Bonetto Valentina, Pastò Anna, Manfredi Marcello, Capri Flavia Giusy, Donadelli Massimo, Marengo Emilio, Robotti Elisa, Masini Maria Angela
- PI-50** Sagrantino vine cv. leaves extracts, micro and nanovesicles: chemical characterization and *in vitro* evaluation of vasoactive properties
Panti Alice, Carullo Gabriele, Aiello Francesca, Fusi Fabio, Saponara Simona, Puoci Francesco, Logozzi Mariantonia, Valoti Massimo
- PI-51** Outcomes analysis of Direct Healthcare Professional Communication: the example of valproate-related Risk Minimization Measures (RMMs) in Italy
Perseo Elena, Coscarella Anna, Santini Federico, Chiarenza Andrea, Rizzi Andrea, Tirone Giampaolo

Cardiovascular and metabolic pharmacology I

Chairperson: Emma Mitidieri

- PI-52** The Impact of COVID-19 on Amputation and Mortality Rates in Patients with Acute Limb Ischemia: A Systematic Review and Meta-Analysis
Ardizzone Alessio, Capra Anna Paola, Crupi Lelio, Scuderi Sarah Adriana, Calapai Fabrizio, Benedetto Filippo, Esposito Emanuela
- PI-53** Acute and chronic cardiovascular effects of a new sustainable pomegranate peel extract
Benedetti Giada, Flori Lorenzo, Spezzini Jacopo, Miragliotta Vincenzo, Martelli Alma, Antonelli Michele, Donelli Davide, Calderone Vincenzo, Meneguzzo Francesco, Testai Lara
- PI-54** Investigation of the cross-talk between histamine receptors and renal CIC proteins mediating chloride transport in a mouse model of diabetic nephropathy
Conte Elena, Imbrici Paola, Monreale Clara Emanuela, Pati Martina, Rosa Arianna Carolina, Liantonio Antonella

- PI-55** CSE-derived hydrogen sulfide regulates the redox state of soluble guanylate cyclase activity in the corpus cavernosum of mice
Correale Melania, Esposito Erika, Indolfi Chiara, Smimmo Martina, Schettino Anna, Bello Ivana, Sorrentino Raffaella, Cirino Giuseppe, Mitidieri Emma, d'Emmanuele di Villa Bianca Roberta
- PI-56** OTX008 and Chrysin: a new drug delivery system for cardiac fibrosis
Lepre Caterina Claudia, Russo Marina, Trotta Maria Consiglia, Fenyvesi Ferenc, Hermenean Anca, D'Amico Michele
- PI-57** A machine learning analysis reveals pleiotropic effects of direct oral anticoagulants in patients with chronic heart failure and atrial fibrillation
Mele Antonietta, Mele Marco, Imbrici Paola, Samarelli Francesco, Purgatorio Rosa, Dinoi Giorgia, Correale Michele, Nicolotti Orazio, De Luca Annamaria, Brunetti Natale Daniele, Amoroso Nicola, Liantonio Antonella
- PI-58** Impact of ATP Citrate Lyase gene silencing on hepatocytes lipid metabolism
Roda Silvia, Da Dalt Lorenzo, Fantini Francesca, Norata Giuseppe Danilo
- PI-59** Pharmacological targeting of RSK as innovative strategy to improve sepsis-induced injury
Rubeo Chiara, Ferreira Alves Gustavo, Aimaretti Eleonora, Einaudi Giacomo, Porchietto Elisa, Collotta Debora, Marzani Enrica, Mastrocola Raffaella, Pagliaro Pasquale, Aragno Manuela, Cifani Carlo, Collino Massimo
- PI-60** Assessment of Adherence & Knowledge of therapy in a population of patients chronically treated with oral anticoagulant drugs
Stella Manuela, Boccardi Davide, Astuni Pietro, Sacco Fabio, Cameran Caviglia Michela, Pasquariello Stefano, Antonucci Giancarlo, Innocenti Leonello, Nanni Luca, Mattioli Francesca
- PI-61** The mitochondrial enzyme CPS1 is involved in LDLR membrane availability: *in vitro* studies on human hepatocarcinoma cell lines
Lupo Maria Giovanna, Franchin Cinzia, Rossi Ilaria, Marodin Giorgia, Arrigoni Giorgio, Ferri Nicola

Pharmacogenetics

Chairperson: Rossana Roncato

- PI-62** Analysis of the association between single nucleotide polymorphisms in CGRP pathway genes and the clinical response to erenumab in migraineurs
Cargnin Sarah, Giacom Martina, Zecca Chiara, Schankin Christoph, Giannantoni Nadia Mariagrazia, Viana Michele, Maraffi Isabella, Riccitelli Gianna Carla, Sihabdeen Shairin, Gobbi Claudio, Terrazzino Salvatore
- PI-63** Generation and Characterization of 3D bioprinted human endometrial cancer models to identify novel pharmacological strategies
Coschina Emma, Ravegnini Gloria, Gorini Francesca, Hrelia Patrizia, Benuzzi Eva, Simonsson Stina, Angelini Sabrina
- PI-65** Clinical and genetic factors as predictors for migraine chronification: a case-control study
Giacom Martina, Cargnin Sarah, Allena Marta, Greco Rosaria, Zanaboni Anna Maria, Facchetti Sara, De Icco Roberto, Sances Grazia, Ghiotto Natascia, Guaschino Elena, Martinelli Daniele, Tassorelli Cristina, Terrazzino Salvatore
- PI-66** Neuron-derived extracellular vesicles miRNA profiles identify children who experience adverse events after ketamine administration for procedural sedation
Lucafò Marianna, **Bidoli Carlotta**, Franzin Martina, Eitan Erez, Rau Sara, Amaddeo Alessandro, Fachin Alice, D Adamo Adamo Pio, Decorti Giuliana, Stocco Gabriele, Barbi Egidio, Cozzi Giorgio
- PI-67** Fluoropyrimidine related-toxicity in a population with a DPYD mutation
Sacco Fabio, Pasquariello Stefano, Mahameed Samir, Boccardi Davide, Baiardi Giammarco, Clavarezza Matteo, Gozza Alberto, Mattioli Francesca
- PI-68** NLRP3 inflammasome methylation level as biomarker for glucocorticoids resistance in pediatric patients with inflammatory bowel disease
Zudeh Giulia, Selvestrel Davide, Bramuzzo Matteo, Cecchin Erika, Decorti Giuliana, Stocco Gabriele, Lucafò Marianna
- PI-69** DPYD*6 polymorphism screening is a useful tool for decreasing gastrointestinal and hematological adverse drug reactions risk in fluoropyrimidines-treated patients
Ardizzone Alessio, Capra Anna Paola, Scuderi Sarah Adriana, Bulzomi Maria, De Luca Fabiola, Silvestris Nicola, Esposito Emanuela

Pharmacognosy, Phytotherapy & Nutraceuticals I

Chairperson: Valentina Citi

- PI-70** Chemopreventive effects of caryophyllene sesquiterpenes on airway cells damaged by cigarette smoke: a mechanistic insight
Bazzaro Elisabetta, Percaccio Ester, Minacori Marco, Incocciati Alessio, Pezzuto Aldo, Eufemi Margherita, Mazzanti Gabriela, Di Giacomo Silvia, Di Sotto Antonella
- PI-71** Effects of the bioregulator peptide Epitalon on oxidative stress and cell migration in an *in vitro* model of diabetic retinopathy
Gatta Marco, Milillo Cristina, Bruno Annalisa, Pesce Mirko, Trofimov Aleksandr, Trofimova Svetlana, Khavinson Vladimir, Ballerini Patrizia, Dovizio Melania
- PI-72** Effect of *Agrobacterium rhizogenes* rolC gene insertion on secondary metabolite profile in the medicinal plant *Acmella oleracea* L.
 Imbesi Martina, Bettini Priscilla Paola, Bogani Patrizia, Maggini Valentina, Gallo Eugenia, Firenzuoli Fabio, Trombetta Domenico, **Smeriglio Antonella**
- PI-73** Vegetation water and virgin pomace: from mill processing waste to plant-complexes for nutraceutical purpose
Ingegneri Mariarosaria, Alberto Alex, Piras Alessandra, Porcedda Silvia, Mandrone Manuela, Chiocchio Iliara, Poli Feruccio, Trombetta Domenico, Smeriglio Antonella
- PI-74** Effects of BCAAs supplementation on age-related kidney fibrosis in a mouse model of ageing: towards a potential nutraceutical approach
Lenti Roberta, Pontrelli Paola, Mantuano Paola, Boccanegra Brigida, Cappellari Ornella, Tulimiero Lisamaura, Bianchini Luca, Aramini Andrea, Liantonio Antonella, Gesualdo Loreto, De Bellis Michela, De Luca Annamaria
- PI-75** *In vitro* investigation of the anti-inflammatory and antibacterial activity of ellagitannins from strawberry (*Fragaria × ananassa* Duch.) against *H. pylori* infection
Maranta Nicole, Martinelli Giulia, Piazza Stefano, Pozzoli Carola, Fumagalli Marco, Sonzogni Elisa, Nicolaci Vincenzo, De Fabiani Emma, Sangiovanni Enrico, Dell'Agli Mario
- PI-76** Dietary flavan-3-ol metabolites modulate proinflammatory human fibroblast activation *in vitro*: potential perspective in the prevention of CVD
Mattina Beatrice, Curti Claudio, Parreno Mena Pedro Miguel, Favari Claudia, Zanotti Iliara, Ronda Nicoletta
- PI-77** A mixture of hop and elder extracts to counteract respiratory viral infections: an *in vitro* study
Percaccio Ester, De Angelis Marta, Acquaviva Alessandra, Nicotra Giovanna, Ferrante Claudio, Mazzanti Gabriela, Di Giacomo Silvia, Nencioni Lucia, Di Sotto Antonella
- PI-78** Purple corn anthocyanins protect against the progression of multiple sclerosis and associated trigeminal pain
Riboldi Benedetta, Magni Giulia, Marinelli Alessandra, Bonacina Fabrizia, Uboldi Patrizia, Di Lorenzo Chiara, Petroni Katia, Ceruti Stefania
- PI-79** The potential role of the dietary compound glucoraphanin and its metabolite sulforaphane in the framework of celiac disease
Sonzogni Elisa, Piazza Stefano, Fumagalli Marco, Maranta Nicole, Pozzoli Carola, Martinelli Giulia, Nicolaci Vincenzo, Marrari Luigi, Sangiovanni Enrico, Dell'Agli Mario

Pharmacognosy, Phytotherapy & Nutraceuticals II

Chairperson: Stefania Ceruti

- PI-80** Retrospective Analysis of an Integrative and Multidisciplinary Oncological Approach
Tinazzi Mattia, Cocetta Veronica, Giacomini Isabella, Bignucolo Alessia, Quagliariello Vincenzo, Maurea Nicola, Montella Liliana, Di Francia Raffaele, Montopoli Monica, Berretta Massimiliano
- PI-81** Ellagic acid and urolithins influence noradrenergic pathways: exploring molecular interactions and their broader physiological impacts
Torre Veronica, Rosenwasser Nicole, Taddeucci Alice, Roggeri Alessandra, Turrini Federica, Boggia Raffaella, Pittaluga Anna
- PI-83** Phytochemical exploration and biological properties of industrial hemp trichomes water extract
Acquaviva Alessandra, Libero Maria Loreta, Di Simone Simonetta Cristina, Pulcini Riccardo, Nilofar Nilofar, Chiavaroli Annalisa, Tunali Fatma, Orlando Giustino, Menghini Luigi, Ferrante Claudio

- PI-84** Non-psychoactive *Cannabis sativa* L. oil attenuate neuropathy symptoms by regulation of CB2-mediated microglial neuroinflammation
Borgonetti Vittoria, Anceschi Lisa, Brighenti Virginia, Corsi Lorenzo, Governa Paolo, Manetti Fabrizio, Pellati Federica, Galeotti Nicoletta
- PI-85** Unveiling the potential of *Crocus sativus* in counteracting brain aging
Castelli Vanessa, Cesare Patrizia, Bej Erjola, Volpe Anna Rita
- PI-86** New natural drugs blocking resistance transfer mediated by extracellular vesicles in breast cancer and acute myeloid leukemia
Condorelli Lucia, Rigogliuso Salvatrice, Cusimano Alessandra, Labbozzetta Manuela, Poma Paola, Notarbartolo Monica
- PI-87** Use of Ergogenic Supplements among the Italian Rowing Olympic team: A Questionnaire-based study
Ficarra Giovanni, Rottura Michelangelo, Trimarchi Fabio, Mannucci Carmen, Bitto Alessandra
- PI-88** A flavonoid-rich extract of white grape juice hampers seizures in different rodent models of epilepsy
Maugeri Alessandro, Russo Caterina, Citraro Rita, Leo Antonio, Navarra Michele, De Sarro Giovambattista
- PI-89** Development of a new plant-food ecosystem integrating microgreens with nutraceutical bioactive compounds
Morandini Stefania, Pucci Mariachiara, Tirelli Emanuela, Popescu Vlad Sebastian, Mastinu Andrea, Peron Gregorio, Ribaldo Giovanni, Gianoncelli Alessandra, Puglisi Roberto, Bongioni Graziella, Cucchi Luca, Corsini Severino, Novello Marino, Cenadelli Silvia, Uberti Daniela, Abate Giulia

Gastrointestinal Pharmacology

Chairperson: Luca Antonioli

- PI-90** Novel pharmacological targets for inflammatory bowel disease
Camillo Lara, Fresu Luigia Grazia
- PI-91** Investigation on drug permeability in control and inflamed human colonoid-derived monolayers
Chiara Linda, Parente Ines Araújo, Aldory Nur, Flammini Lisa, Viglioli Martina, Vacondio Federica, Gaiani Federica, de'Angelis Gian Luigi, Barocelli Elisabetta, Bertoni Simona
- PI-92** Neuro-oxidative network in regulating gut barrier function
D'Alessio Aurora, Liguori Fabrizio Maria, Cristiano Claudia, Russo Roberto, Aviello Gabriella
- PI-93** The cytokine eNAMPT (extracellular Nicotinamide Phosphoribosyltransferase) is a novel therapeutic target in inflammatory gut disorders
Gianmarco Eremita, Cascetta Greta Colombo Giorgia, Alessi Andrea, Caputo Emanuela, Ferramosca Angela, Porta Chiara, Lenti Marco Vincenzo, Pasini Alessandra, Di Sabatino Antonio, Travelli Cristina
- PI-94** PEA-OXA restores cognitive impairments associated with vitamin D deficiency-dependent alterations of the gut microbiota
Guida Francesca, Iannotta Monica, Perrone Michela, Infantino Rosmara, Giorgini Giada, Fusco Antimo, Marabese Ida, Manzo Iolanda, Belardo Carmela, Di Martino Emanuele, **Pagano Salvatore**, Boccella Serena, Silvestri Cristoforo, Luongo Livio, Di Marzo Vincenzo, Maione Sabatino
- PI-95** Decrease of mycophenolate mofetil plasma concentration in the presence of antibiotics: a case report in a cystic fibrosis patient with lung transplant
Ponis Giuliano, Stocco Gabriele, Barbi Egidio, Decorti Giuliana
- PI-96** Effects of Short-Chain Fatty Acids on Indoxyl Sulfate-induced homeostasis impairment in intestinal epithelial cells
Rispoli Rosaria Margherita, De Fabrizio Vincenzo, Popolo Ada, Autore Giuseppina, Marzocco Stefania
- PI-97** Glucocorticoid-induced leucine zipper expression in enteroendocrine cell subtypes in healthy and IBD gut
Rosati Lucrezia, Cari Luigi, Procaccini Martina, Sette Maria Rosaria, Leoncini Giuseppe, Migliorati Graziella, Ronchetti Simona
- PI-99** Enterococcus faecium (SF68) supplementation as a novel therapeutic approach in the post-inflammatory irritable bowel syndrome
Benvenuti Laura, Fornai Matteo, D'Antongiovanni Vanessa, Di Salvo Clelia, Valdiserra Giulia, Pellegrini Carolina, Bernardini Nunzia, Ippolito Chiara, Segnani Cristina, Carta Gianfranca, Banni Sebastiano, Arini Achille, Coppolecchia Raffaella, Antonioli Luca
- PI-100** Gender influences early-life central and enteric neuroplasticity in a model of toxic demyelination
Faggini Sofia, Tietto Angela, Michelini Giulia, Barranca Valentina, Nasini Sofia, Bosi Annalisa, Giaroni Cristina, Comai Stefano, Savarino Edoardo Vincenzo, Giron Maria Cecilia

- PI-101** Endogenous hyaluronic acid regulates the mouse colon neuromuscular functions after induction of experimental colitis
Ponti Alessandra, Bosi Annalisa, Moro Elisabetta, Banfi Davide, Faggin Sofia, Giron Maria Cecilia, Crema Francesca, Giaroni Cristina
- PI-102** Impact of cuprizone-based diet on enteric inhibitory neurotransmission during early life
Tietto Angela, Faggin Sofia, Bobbo Arianna, Magagna Vanessa, Michelini Giulia, Barranca Valentina, Bosi Annalisa, Giaroni Cristina, Savarino Edoardo Vincenzo, Giron Maria Cecilia

Inflammation Pharmacology I

Chairperson: Stefano Bruscoli

- PI-103** Effects of wogonin and scutellarin on the inflammatory profile of primary chondrocytes under experimental osteoarthritis conditions
Lauro Rita, Cullotta Chiara, Irrera Natasha, Bitto Alessandra
- PI-104** PEPtide Inhibitor of Trans-Endothelial Migration (PEPITEM) ameliorates proliferating cells profile and imiquimod-induced psoriasis-like inflammation in mice
Marigliano Noemi, Saviano Anella, Schettino Anna, Cirino Giuseppe, Bucci Mariarosaria, McGettrick Helen M, Iqbal Asif Jilani, Rainger George E, Maione Francesco
- PI-105** Exploring CDK9 pharmacological inhibition in sepsis: implications for the endothelium
Marzani Enrica, Ferreira Alves Gustavo, Aimaretti Eleonora, Porchietto Elisa, Einaudi Giacomo, Aragno Manuela, Cifani Carlo, Spampinato Simona Federica, Collino Massimo
- PI-106** Protective effects of a dietary supplement (Algem Dol Care®) enriched in palmitoylethanolamide, parthenolide and C-phycoerythrin in counteracting microglia-induced neuroinflammation
 Marzani Enrica, Capitani Lara, Bastianello Angelica, Genazzani Armando, Collino Massimo, **Spampinato Simona Federica**
- PI-107** NPY-Y1R Interacts with Gonadal Hormones in regulating inflammation and cognitive and emotional behavior in Female Mice
Oberto Alessandra, Cifarelli Lorenzo, Trento Federica, Di Cintio Niccolò, Lodi Alessandra, Einaudi Giacomo, Luzzati Federico, Cifani Carlo, Collino Massimo, Bertocchi Ilaria
- PI-108** Neuroinflammation and hepatic inflammatory processes heighten vulnerability to psychopathology in adolescent rats exposed to stress early in life
Petrillo Giulia, D'Aprile Ilari, Creutzberg Kerstin Camille, Orso Rodrigo, Wearick-Silva Luis Eduardo, Tractenberg Saulo Gantes, Grassi-Oliveira Rodrigo, Riva Marco Andrea, Cattaneo Annamaria
- PI-109** The RNA-binding protein HuR emerging role as a promising pharmacological target in neuroinflammation induced by high glucose levels
Videtta Giacomina, Galeotti Nicoletta
- PI-110** Low-grade inflammation in Long-COVID syndrome sustains a distinctive platelet activation phenotype associated with pulmonary impairment
 Brambilla Marta, Fumoso Federica, Conti Maria, Becchetti Alessia, Bozzi Silvia, Mencarini Tatiana, Agostoni Pier Giuseppe, Mancini Maria Elisabetta, Cosentino Nicola, Bonomi Alice, Pengo Martino, Nallio Kevin, Andreini Daniele, **Camera Marina**
- PI-111** Switch to phagocytic microglia by CSFR1 inhibition drives amyloid-beta clearance from glutamatergic terminals rescuing LTP in acute hippocampal slices
Maisto Nunzia, d'Ettore Asia, Mango Dalila
- PI-112** The antitumoral activity of carnosine in human neuroblastoma cells is mediated by its ability to induce the expression of TNF- α and TGF- β 1 and increase oxidative stress
Privitera Anna, Di Pietro Lucia, Leggio Loredana, Cavallaro Fabrizio, Catania Marco, Falcone Marco, Caraci Filippo, Iraci Nunzio, Caruso Giuseppe
- PI-113** Low concentrations of antimony alter *in vitro* differentiation and function of the intestinal epithelium by inducing inflammation and ER stress
Salamone Federica Lina, Molonia Maria Sofia, Saija Antonina, Cimino Francesco, Speciale Antonio
- PI-114** Network meta-analysis comparing the effect of ezetimibe, bempedoic acid and colchicine on C-reactive protein levels
Xie Sining, Galimberti Federica, Olmastroni Elena, Catapano Alberico Luigi, Casula Manuela

Neurodegenerative diseases I

Chairperson: Arianna Bellucci

- PI-115** The effect of cannabinoids in an *in vitro* model of β -Amyloid neurotoxicity
Cullotta Chiara, Lauro Rita, Irrera Natasha, Bitto Alessandra
- PI-116** The upregulation of ADAM10 activity modulates adult hippocampal neurogenesis in a murine model of Alzheimer's disease.
De Ciccio Greta, Bortolotto Valeria, Boni Giulia, Gibin Borzoni Giada, Stringhi Ramona, D' Urso Annarita, La Greca Filippo, Scheggia Diego, Canonico Pier Luigi, Di Luca Monica, Marcello Elena, Grilli Mariagrazia
- PI-117** Endothelial damage induced by lipopolysaccharide on female and male human umbilical vein endothelial cells: the protective effect of (R)-[α]-Linalool
Doro Laura, Peana Alessandra Tiziana, Migheli Rossana, Capobianco Giampiero, Criscione Massimo, Campesi Ilaria
- PI-118** ADAM10 in the macrophages: deciphering its role and involvement in Alzheimer's Disease pathogenesis
D'Urso Annarita, Stringhi Ramona, La Greca Filippo, Zianni Elisa, Pelucchi Silvia, Di Luca Monica, Marcello Elena
- PI-119** Photobiomodulation: unravelling mechanisms and impact on exocytotic glutamate release in the Central Nervous System
Farsetti Elisa, Amaroli Andrea, Amato Sarah, Gatta Elena, Maura Guido, Benedicenti Stefano, Marcoli Manuela, Cervetto Chiara
- PI-120** Cannabinoids as potential therapeutic tool in the treatment of motoneuron diseases
Ferro Alice, Rosso Elena, Gandevskiy Nikita, Barge Alessandro, Boscaro Valentina, Gallicchio Margherita
- PI-121** Network pharmacology approach to identify new pharmacological targets for glaucoma
Giuffrida Erika, Platania Chiara Bianca Maria, Drago Filippo, Bucolo Claudio
- PI-122** Trkb activation as a novel target for drug resistant temporal lobe epilepsy: from animal models to the human epileptic brain
Guarino Annunziata, Soukupova Marie, Bettogazzi Barbara, Crippa Lucia, Zucchini Silvia, Ruffolo Gabriele, Palma Eleonora, Simonato Michele
- PI-123** Tau oligomers affect SMAD-dependent TGF β signaling in human microglial HMC3 cells
Gullotta Giorgia Serena, Fidilio Annamaria, Orsini Franca, Fioriti Luana, Balducci Claudia, Forloni Gianluigi, Sortino Maria Angela, Caraci Filippo
- PI-124** Glucocerebrosidase chaperones mitigate α -synuclein-induced neurotoxicity in organotypic cortico-striatal slices
Iurato La Rocca Antonino, Gerace Elisabetta, Cerullo Miriam, Ranieri Giuseppe, Curti Lorenzo, Ferrara Valentina, Clemente Francesca, Matassini Camilla, Cardona Francesca, Goti Andrea, Tonin Rodolfo, Morrone Amelia, Mannaioni Guido, Cascella Roberta, Cecchi Cristina, Masi Alessio
- PI-125** Hypoxia modifies A β -induced polarization of microglia: involvement of SIRT1
Lipari Cristiana Lucia Rita, Patti Aurora, Magri Andrea, Conti Nibali Stefano, Sortino Maria Angela, Merlo Sara

Neurodegenerative diseases II

Chairperson: Sara Merlo

- PI-126** Involvement of KV3.4 channels in different vulnerability of midbrain and striatum during PD progression
Magliocca Giorgia, Esposito Emilia, Tufano Michele, Piccialli Ilaria, Rubino Valentina, Tedeschi Valentina, Sisalli Maria Josè, Secondo Agnese, Scorziello Antonella, Pannaccione Anna
- PI-127** Potent and selective FAAH inhibitors as potential tools to treat neuroinflammatory conditions
Vincenzi Fabrizio, Pasquini Silvia, Contri Chiara, Butini Stefania, Papa Alessandro, Carullo Gabriele, Campiani Giuseppe, Gemma Sandra, Boscia Francesca, Cammarota Mariarosaria, Mor Marco, Lodola Alessio, Varani Katia
- PI-128** Changes of the microglia phenotype in the SOD1G93A mouse model of amyotrophic lateral sclerosis after mGluR5 genetic down-regulation
Bonifacino Tiziana, Balbi Matilde, Ravera Silvia, Fenoglio Daniela, Altosole Tiziana, Farinini Emanuele, Musante Ilaria, Scudieri Paolo, Leardi Riccardo, Fedele Ernesto, Bonanno Giambattista, Milanese Marco

- PI-129** Combined targeting of fatty acid amide hydrolase and melatonin receptors promotes neuroprotection and stimulates inflammation resolution in rats
Cammarota Mariarosaria, Ferlenghi Francesca, Vacondio Federica, Vincenzi Fabrizio, Varani Katia, Bedini Annalida, Rivara Silvia, Mor Marco, Boscia Francesca
- PI-130** Characterisation of genotype-phenotype differences in immortalised dystrophic cell lines from paediatric patients: new platforms for identifying target therapies in Duchenne muscular dystrophy
Cappellari Ornella, Quarta Raffaella, Cristiano Enrica, Boccanegra Brigida, Ladisa Alberto, Cerchiara Alessandro Giovanni, Marinelli Manuel, Barile Simona, Mouly Vincent, Lasorsa Massimo, Imbrici Paola, De Luca Annamaria
- PI-131** Characterizing oxidative stress induced by A β oligomers and the protective role of carnosine in primary mixed glia cultures
Cardaci Vincenzo, Di Pietro Lucia, Zupan Matt, Sibbitts Jay, **Privitera Anna**, Lunte Susan M, Caraci Filippo, Hartley Meredith D, Caruso Giuseppe
- PI-132** New perspective into the functional evaluation of CLCN3 and CLCN4 variants associated with human neurological diseases
Coppola Maria Antonietta, Tettey-Matey Abraham, Festa Margherita, Sbrana Francesca, Giusto Alice, Mazza Irene, Picco Cristiana, Piccolo Alessandra, Pusch Michael
- PI-133** Role of the sphingosine 1-phosphate pathway in ischemia: an *in vitro* study
Mazzantini Costanza, Cencetti Francesca, Lana Daniele, Venturini Martina, Pugliese Anna Maria, Mulas Gloria, Landucci Elisa, Pellegrini-Giampietro Domenico E
- PI-134** Selected Growth Hormone Secretagogues (GHS) as promising therapeutical approach for Amyotrophic Lateral Sclerosis: a proof-of-concept study
Meanti Ramona, Rizzi Laura, Bresciani Elena, Licata Martina, Sartori Emma, Omeljaniuk Robert J, Fehrentz Jean-Alain, Denoyelle Severine, Locatelli Vittorio, Torsello Antonio
- PI-135** Gender-related differences in a rat model of LPS-induced systemic inflammation and Pediatric Acute Neuropsychiatric Syndrome
Opallo Nicola, Lama Adriano, Pirozzi Claudio, Bove Maria, Annunziata Chiara, Comella Federica, Melini Stefania, Mattace Raso Giuseppina, Trabace Luigia, Meli Rosaria
- PI-136** Metabolic cross-talk between astrocytes and neurons: implications for Alzheimer's disease
Preziuso Alessandra, Serfilippi Tiziano, Terenzi Valentina, Lariccia Vincenzo, Magi Simona, Piccirillo Silvia
- PI-137** AI-assisted diagnosis to improve the pharmacological treatment of pain and agitation in severe dementia
Scuteri Damiana, Adornetto Carlo, Pagliaro Martina, Palopoli Vincenzo, Bova Gabriele, Greco Gianluigi, Bagetta Giacinto, Corasaniti Maria Tiziana
- PI-138** Downregulation of the Metabotropic Glutamate Receptor Type 5 modulates the Reactive and Neurotoxic Phenotype of Adult Astrocytes in ALS
Torazza Carola, Provenzano Francesca, Gallia Elena, Cerminara Maria, Bacchetti Francesca, Balbi Matilde, Bonifacino Tiziana, Tessitore Sara, Ravera Silvia, Usai Cesare, Musante Ilaria, Puliti Aldamaria, Van Den Bosch Ludo, Jafar-nejad Paymaan, Rigo Frank, Bonanno Giambattista, Milanese Marco
- PI-139** *In vitro* and *in vivo* neuroprotective effects of Magnoflorine: potential implication for Alzheimer's disease
Ugolotti Martina, Papotti Bianca, Adorni Maria Pia, Daini Eleonora, Kukula-Koch Wirginia, Bernini Franco, Vilella Antonietta, Zimetti Francesca

POSTER SESSION II

November 14th

from **19.00** to **20.30**

Pain Pharmacology I

Chairperson: **Girolamo Calò**

- PII-1** *In-vitro* pharmacological characterization of novel endomorphin-2 cyclic analogs
Asadi Jafari Zahra, Malfacini Davide, Vitella Elena, Piekielna-Ciesielska Justyna, Jenecka Anna, Calò Girolamo
- PII-2** Oxidant-sensitive transient receptor potential ankyrin 1 (TRPA1) is involved in Zebrafish larvae Oxaliplatin-induced peripheral neuropathy
Bellantoni Elisa, Marini Matilde, Chieca Martina, Souza Monteiro De Araujo Daniel, Landini Lorenzo, De Siena Gaetano, Pensieri Pasquale, Masticci Alessandra, Scuffi Irene, Geppetti Pierangelo, Nassini Romina, De Logu Francesco
- PII-3** The CGRP-mediated neuronal/Schwann cell pathway mediates periorbital mechanical allodynia in mice
Brancolini Giulia, De Logu Francesco, Nassini Romina, Landini Lorenzo, Marini Matilde, Souza Monteiro de Araujo Daniel, Titz Mustafa, Geppetti Pierangelo
- PII-4** Toll-like receptor 4 mediates fentanyl-induced neuroinflammation: implications for improving chronic pain management.
Chemello Chiara, Marcolin Emma, Barbierato Massimo, Facci Laura, Zusso Morena
- PII-5** Adeno-associated Virus as a delivery strategy to study diseases in mouse model
Chieca Martina, Pensieri Pasquale, Brancolini Giulia, Landini Lorenzo, Bellantoni Elisa, Nassini Romina, De Logu Francesco
- PII-6** Non-Neuronal TRPA1 Encodes Mechanical Allodynia Evoked by Neurogenic Inflammation and Partial Nerve Injury in rats
De Siena Gaetano, De Logu Francesco, Landini Lorenzo, Marini Matilde, Souza Monteiro de Araujo Daniel, Romitelli Antonia, Iannone Luigi Francesco, Geppetti Pierangelo, Nassini Romina
- PII-7** Set up of a new protocol for the evaluation of evoked and non-evoked migraine-like signs in mice
Frezza Alessia, Sturaro Chiara, Argentieri Michela, Pola Pietro, Ruzza Chiara
- PII-8** Spinal and supraspinal characterization of an inflammatory CFA-induced model of Vulvodinia
Fusco Antimo, Boccella Serena, Perrone Michela, Belardo Carmela, Ricciardi Federica, Morace Andrea Maria, Guida Francesca, Palazzo Enza, Maione Sabatino, Luongo Livio
- PII-9** Schwann Cells IGF-1 receptor intracellular signaling promotes an endothelial nitric oxide synthase-mediated TRPA1 activation
Marini Matilde, Landini Lorenzo, Souza Monteiro de Araujo Daniel, Montini Marco, Geppetti Pierangelo, Nassini Romina, De Logu Francesco
- PII-10** CLR/RAMP1 activation by CGRP mediates an intracellular pathway in Schwann cells that targets TRPA1
Masticci Alessandra, De Logu Francesco, Nassini Romina, Landini Lorenzo, Marini Matilde, Souza Monteiro de Araujo Daniel, Titz Mustafa, Geppetti Pierangelo

Pain Pharmacology II

Chairperson: **Patrizia Romualdi**

- PII-11** Chronic treatment with a CXCR1/2 inhibitor, counteracts diabetes and its comorbidities in streptozotocin-treated rats
Morace Andrea Maria, Boccella Serena, Giorgio Cristina, Guida Francesca, Perrone Michela, Manzo Iolanda, Belardo Carmela, Maione Sabatino, Aramini Andrea, Allegretti Marcello, Luongo Livio, Brandolini Laura
- PII-12** AT-524 and AT-784, two novel highly potent and selective NOP receptor agonists
Morrone Erika, Frezza Alessia, Sturaro Chiara, Ruzza Chiara, Malfacini Davide, Zaveri Nurulain, Calò Girolamo
- PII-13** Off-label galcanezumab in episodic and chronic cluster headache: a prospective, cohort study
Munafò Antonio, Bungalassi Andrea, Vigani Giulia, De Cesaris Francesco, Chiarugi Alberto, Geppetti Pierangelo, Iannone Luigi Francesco

- PII-14** Mu Opioid Receptors on Lymphocytes as Potential Biomarkers of Neuropathic Pain in a Mouse Model: The Interplay with Sirtuin 3
 Passacatini Lucia Carmela, **Ilari Sara**, Nucera Saverio, Scarano Federica, Macrì Roberta, Caminiti Rosamaria, Ruga Stefano, Serra Maria, Oppedisano Francesca, Maiuolo Jessica, Palma Ernesto, Malafoglia Valentina, Raffaelli William, Mollace Vincenzo, Muscoli Carolina
- PII-15** Potential role of the hydroxyl carboxylic acid receptor type 2 (HCAR2) in microglia pathophysiology and pain implications
Ricciardi Federica, Perrone Michela, Belardo Carmela, Boccella Serena, Fusco Antimo, Morace Andrea Maria, Guida Francesca, Palazzo Enza, Maione Sabatino, Luongo Livio
- PII-16** Schwann cell TRPA1 Gain-of-Function Mutation causes stress related pain: FEPS
Scuffi Irene, Landini Lorenzo, Marini Matilde, Souza Monteiro de Araujo Daniel, Masticci Alessandra, Brancolini Giulia, Tesi Martina, Chieca Martina, Pensieri Pasquale, Bellantoni Elisa, De Siena Gaetano, Geppetti Pierangelo, Nassini Romina, De Logu Francesco
- PII-17** Expanding the toolbox of ATTO dye conjugated ligands to analyze the expression of opioid receptors (OR) in living cells
Simon Katharina, Malfacini Davide, Camilotto Riccardo, Nardello Riccardo, Frezza Alessia, Sturaro Chiara, Marzola Erika, Forgiarini Alessia, Pagetta Andrea, Guerrini Remo, Ruzza Chiara, Lambert Dave G, Calò' Girolamo
- PII-18** Aromatase inhibitors evoke periorbital allodynia in mice via calcitonin gene-related peptide and its receptors in Schwann cells
Tesi Martina, Marini Matilde, Souza Monteiro de Araujo Daniel, Chieca Martina, Bellantoni Elisa, De Siena Gaetano, Masticci Alessandra, Scuffi Irene, Pensieri Pasquale, Nassini Romina, De Logu Francesco, Landini Lorenzo
- PII-19** Effectiveness and tolerability of lasmiditan as acute migraine treatment (DART): a real-world multicentric Italian study
Vigani Giulia, De Icco Roberto, Vaghi Gloria, Corrado Michele, Iannone Luigi Francesco, De Santis Federico, Ornello Raffaele, Piella Elisa, Romozzi Marina, Sebastianelli Gabriele, Avino Gianluca, Cevoli Sabina, Coppola Gianluca, Dalla Volta Giorgio, Granato Antonio, Boscain Francesca, Pistoia Francesca, Trimboli Michele, Russo Antonio, Chiarugi Alberto
- PII-20** *In-vitro* Investigation of Mu Opioid Receptor (MOR) Interfacial Residues Computationally Predicted to Have a Role in MOR/Cannabinoid Receptor 1 (CB1) Heteromerization and Crosstalk Basally and in Response to Morphine Treatment
Cimetti Chiara, Cuna Elisabetta, Baiula Monica, Renault Pedro, Giraldo Jesús, Bedini Andrea

Pediatric Pharmacology

Chairperson: Marianna Lucafò

- PII-22** Dalbavancin Pharmacokinetics in a 18-Month-Old Child Undergoing Extracorporeal Membrane Oxygenation
Cafaro Alessia, Baiardi Giammarco, Mesini Alessio, Mariani Marcello, Moscatelli Andrea, Lampugnani Elisabetta, Damasio Maria Beatrice, Castagnola Elio, Cangemi Giuliana, Mattioli Francesca
- PII-23** iPSC-derived pancreatic cells as a 2D model system to study thiopurine-induced pancreatitis: impact of the single cell or cluster seeding on differentiation
Ciaffoni Alessia, Rispoli Paola, Decorti Giuliana, Lucafò Marianna, Stocco Gabriele
- PII-24** Optimal plasma cut-off value of active anti-thymocyte globulin to prevent acute graft versus host disease and the possible prognostic role of miRNA-320 in pediatric recipients of hematopoietic stem cells transplantation
Curci Debora, Valencic Erica, Braidotti Stefania, Tommasini Alberto, Stocco Gabriele
- PII-25** Methotrexate polyglutamate concentrations in pediatric patients with juvenile idiopathic arthritis and association with clinical response
Dalla Zuanna Paolo, Klanjscek Marta, Franzin Martina, Ponis Giuliano, Paternuosto Gilda, Addobbati Riccardo, Taddio Andrea, Pastore Serena, Stocco Gabriele
- PII-26** Intestinal organoids as a patient-specific preclinical model for studying the mechanism of action of glucocorticoids in paediatric inflammatory bowel disease
Fratetestefano Federica, Muzzo Antonella, Bramuzzo Matteo, Bruscoli Stefano, Stocco Gabriele, Lucafò Marianna

- PII-27** Intestinal organoid-based model for the development of new therapeutic approaches in paediatric inflammatory bowel disease
Muzzo Antonella, Silvani Alessandra, Grazioso Giovanni, Passarella Daniele, Bramuzzo Matteo, Decorti Giuliana, Stocco Gabriele, Lucafò Marianna
- PII-28** Effects of PACSIN2 on extracellular vesicles content and the role of EVs miRNA on mercaptopurine cytotoxicity
Norbedo Alessia, Curci Debora, Zudeh Giulia, Senigagliesi Beatrice, Parisse Pietro, Casalis Loredana, Bidoli Carlotta, Gerdol Marco, Holcar Marija, Lenassi Metka, Decorti Giuliana, Lucafò Marianna, Stocco Gabriele
- PII-29** Developing an *in vitro* innovative peptide-based biosensor to identify aberrant JAKs tyrosine kinase activity in pediatric patients affected by JAKs related rare-immuno mediated diseases
Parmesan Nicole, Franca Raffaella, Pugnetti Letizia, Bellich Barbara, Taddio Andrea, Stocco Gabriele
- PII-30** Development of iPSC-derived exocrine pancreatic organoids to study drug-induced toxicity
Rispoli Paola, Lucafò Marianna, Fengming Yue, Sorrentino Giovanni, Decorti Giuliana, Stocco Gabriele
- PII-31** Application of Therapeutic Drug Monitoring (TDM) to the management of pediatric patients affected by cystic fibrosis and treated with ivacaftor/tezacaftor/elexacaftor combination
Simeoli Raffaele, Mancini Alessandro, Cairoli Sara, Cristiani Luca, Ciciriello Fabiana, Boni Alessandra, Dionisi Vici Carlo, Focchi Giovanni Alessandro, Cutrera Renato, Goffredo Bianca Maria
- PII-32** Off-label use of ceftazidime-avibactam combination for treatment of complicated pneumonia caused by carbapenem-resistant gram negatives pathogens in pediatric patients
Simeoli Raffaele, Chiusolo Fabrizio, Cairoli Sara, Tortora Francesca, Dei Giudici Luigi, Rossi Chiara, Bernaschi Paola, Bianchi Roberto, Picardo Sergio Giuseppe, Dionisi Vici Carlo, Goffredo Bianca Maria
- PII-33** New insights into the mechanisms of action of methotrexate: role of the lincRNA-p21
Sindici Forgiarini Sofia, Messineo Luca, Pastore Serena, Taddio Andrea, Decorti Giuliana, Lucafò Marianna, Stocco Gabriele
- PII-34** Revolutionising Orphan and Paediatric Medicine Development: The ERAMET Project
Torretta Silvia, Giannuzzi Viviana, Bonifazi Fedele, Pansieri Claudia, Reggiardo Giorgio, Bonifazi Donato, Della Pasqua Oscar, Tshinanu Flora Musuamba

Immunopharmacology

Chairperson: Elisabetta Vegeto

- PII-35** GILZ Over-Expression and Erythropoiesis: a new potential target for the treatment of anaemic conditions
Cogliati Paolo, Cogliati Paolo, Febo Marta, Paglialunga Musetta, Bereshchenko Oxana, Mandarano Martina, Floridi Claudia, Massoni Cristina, Martino Giovanni, Riccardi Carlo, Migliorati Graziella
- PII-36** Lack of TRPV3 impacts immune function and metabolic activity of macrophages
Miraglia Maria, Cicia Donatella, De Cicco Paola, Zoppoli Pietro, Nani Maria Francesca, Merla Giuseppe, Romano Barbara, Capasso Raffaele, Borrelli Francesca, Izzo Angelo Antonio, Pagano Ester
- PII-37** Treatment with anti-GITR TRX518 monoclonal antibody boosts regulatory T cells in the blood of Addison's disease patients: an *in vitro* study
Procaccini Martina, Cari Luigi, Rosati Lucrezia, Basta Giuseppe, Ronchetti Simona, Migliorati Graziella, Calafiore Riccardo, Nocentini Giuseppe
- PII-38** The molecular mechanism of SERMs inflammatory activity
Sfogliarini Chiara, Tran Hong Lien, Cesta Maria Candida, Allegretti Marcello, Locati Massimo, Vegeto Elisabetta
- PII-39** Amlitelimab (an OX40 ligand antibody) significantly reduces serum IgE and LDH, and epidermal hyperplasia in adults with moderate-to-severe atopic dermatitis
Geng Bob, Dondi Davide, **Biffi Claudia Caterina**, Weidinger Stephan, Masuda Koji, Blauvelt Andrew, Rahawi Kassim, OMalley John, Bernigaud Charlotte, Belhechmi Shaima, Rynkiewicz Natalie
- PII-40** Unveiling a novel mechanism for T-DXd-induced cardiotoxicity: a computational exploration
Inglese Elvira, D'Amico Federico, Maloberti Alessandro, Pani Arianna, Gentilini Davide, Danesi Romano
- PII-41** IL4I1 catalytic activity confers protection against ferroptosis in a murine fibrosarcoma cell line
Mencarelli Giulia, Silva Barcelos Estevo Carlos, Manni Giorgia, Ricciuti Dorian, Pieroni Benedetta, Sarnari Francesco, Pinzi Alessandro, Murphy Kenneth, Fallarino Francesca, Gargaro Marco

PII-42 VS-15 inhibits both the enzymatic and non-enzymatic functions of indoleamine 2,3-dioxygenase 1
Panfili Eleonora, Rezzi Sarah Jane, Adamo Annalisa, Ugel Stefano, Piralì Tracey, Pallotta Maria Teresa

PII-43 Epacadostat stabilizes the apo-form of IDO1 and signals a pro-tumorigenic pathway in human ovarian cancer cells
Rossini Sofia, Ambrosino Sara, Mondanelli Giada, Orabona Ciriana

Neuropsychopharmacology I

Chairperson: Annamaria Cattaneo

PII-44 Long-life exposure to high fat diet induces peripheral TRYCAT system alterations and depressive-like-behaviour in male mice
Agosti Lisa Pia, Palmieri Maria Adelaide, Bove Maria, Tucci Paolo, Morgese Maria Grazia

PII-45 Neuropeptide S receptor (NPSR1) variants: A phosphorylation and internalization study
Argentieri Michela, Marzola Erika, Guerrini Remo, Calò Girolamo, Ruzza Chiara, Reinscheid Rainer K

PII-46 Investigating the effects of a selective melatonin MT2 receptor partial agonist in the MK-801 mouse model of schizophrenia
Barzon Benedetta, Nasini Sofia, Tidei Sara, Zuffada Leonardo, Comai Stefano

PII-47 Enduring effects of a pubertal immune challenge on KP metabolic balance in adult male and female mice
Benatti Cristina, Rigillo Giovanna, Toscano Ylenia, Ciani Miriam, Rivi Veronica, Bertarini Beatrice, Alboni Silvia, Pani Luca, Brunello Nicoletta, Tascetta Fabio, Blom Johanna Maria Catharina

PII-48 Effects of a ketogenic diet in a murine model of GRIN2A syndrome
Bertocchi Ilaria, Oberto Alessandra, Einaudi Giacomo, Cifarelli Lorenzo, Lodi Alessandra, Aimaretti Eleonora, Luzzati Federico, Cifani Carlo, Collino Massimo

PII-49 Allopregnanolone enables the detrimental effects of sleep deprivation by activating excitatory GABA-A receptors of prefrontal pyramidal neurons.
Concas Luca, Serra Valeria, Santoni Michele, Scheggi Simona, Melis Miriam, Bortolato Marco, Frau Roberto

PII-50 Potential anti-anhedonic activity of lurasidone in a rodent model of chronic stress-induced depression
Corridori Eleonora, Begni Veronica, Salviati Sara, Marchesin Alessia, Gambarana Carla, Riva Marco Andrea, Scheggi Simona

PII-51 Effect of concurrent activation of nociceptin NOP receptor and blockade of classical opioid receptors on alcohol drinking in genetically-selected alcohol preferring rats
Crook Caitlin, Li Hongwu, Petteta Francesca, Domi Esi, Ciccocioppo Roberto

PII-52 Investigating the involvement of different hippocampal cell populations in the molecular changes associated with vulnerability and resilience to stress-induced anhedonia: focus on redox balance mediators
D'Amelio Sabrina, Spero Vittoria, Scandella Lucrezia, Nespoli Martina, Lattuada Donatella, Gruca Piotr, Lason Magdalena, Litwa Ewa, Papp Mariusz, Francolini Maura, Molteni Raffaella

PII-53 Development of a deep learning tool based on a graph convolutional neural networks approach to study social behavior in rodents
 Della Valle Andrea, **Sonsini Gregorio**, Pilati Sebastiano, Perali Andrea, Ciccocioppo Roberto, Ubaldi Massimo

PII-54 Traumatic exposure in adulthood triggers memory deficits in middle-aged mice regardless of trauma susceptibility/resilience
Diolosa Lidia, Torrisi Sebastiano Alfio, Rizzo Silvia, Drago Filippo, Leggio Gian Marco

PII-55 The selective antagonism of adenosine A_{2A} receptors enhances maturation of precursor oligodendroglial cells and myelination: new putative targets for demyelinating diseases
Frulloni Lucia, Cherchi Federica, Venturini Martina, Santalmassi Clara, Calenda Sara, Catarzi Daniela, Varano Flavia, Colotta Vittoria, Coppi Elisabetta, Cencetti Francesca, Pugliese Anna Maria

PII-56 Molecular insights into long-term behavioral effects of perinatal serotonergic manipulation
Gallo Maria Teresa, Brivio Paola, Palumbo Arianna, Fumagalli Fabio, Calabrese Francesca

Neuropsychopharmacology II

Chairperson: Silvia Alboni

- PII-57** Sex dimorphism controls dysbindin-related cognitive dysfunctions in mice and humans with the contribution of COMT
Geraci Federica, Passiatore Roberta, Penzel Nora, Laudani Samuele, Bertolino Alessandro, Blasi Giuseppe, Graziano Adriana CE, Kikidis Gianluca C, Mazza Ciro, Parihar Madhur, Rampino Antonio, Sportelli Leonardo, Trevisan Nicolò, Drago Filippo, Papaleo Francesco, Sambataro Fabio, Pergola Giulio, Leggio Gian Marco
- PII-58** Sex-dependent hippocampal dendrite remodeling in a model of traumatic stress susceptibility/resilience
Giovenzana Mattia, Torrisi Sebastiano Alfio, Rizzo Silvia, Mingardi Jessica, Drago Filippo, Leggio Gian Marco, Musazzi Laura
- PII-59** Deficit of TGF- β 1 and cognitive decline in Down's syndrome: a new pharmacological target?
Grasso Margherita, Fidilio Annamaria, L'Episcopo Francesca, Recupero Marilena, Barone Concetta, Bacalini Maria Giulia, Benatti Cristina, Giambirone Maria Concetta, Caruso Giuseppe, Greco Donatella, Di Nuovo Santo, Romano Corrado, Ferri Raffaele, Buono Serafino, Cuello Claudio, Blom Johanna Maria Catharina, Tascetta Fabio, Piazza Pier Vincenzo, De La Torre Rafael, Caraci Filippo
- PII-61** Alterations induced by morphine and methadone in the neuroinflammatory processes and tolerance in male and female rats
Lacorte Antonio, Rullo Laura, Morosini Camilla, Candeletti Sanzio, Romualdi Patrizia
- PII-62** Exposure to social defeat stress impairs motivation and sociability in rats: restorative effects of chronic lurasidone treatment
Marchesin Alessia, Begni Veronica, Corridori Eleonora, Salvati Sara, Scheggi Simona, Riva Marco Andrea
- PII-63** Optogenetic Modulation of Key Brain Pathways Enhances Memory Function in a Prodromal Alzheimer's Disease Model
Marcoccia Sara, Chiacchierini Giulia, Riccardi Eleonora, Lisiola Jacopo, Morena Maria, Santangelo Valerio, Campolongo Patrizia
- PII-64** Stress effects on fear memory extinction: The crosstalk between Amygdala and Entorhinal Cortex
Mariani Federica, Rech Francesca, Mancini Giulia Federica, Pisaneschi Arianna, Campolongo Patrizia, Morena Maria
- PII-65** Sex-Dependent Behavioral Effects of Ketamine in a Mouse Model of Chronic Restraint Stress
Nicosia Noemi, Mingardi Jessica, Misztak Paulina, Giovenzana Mattia, Musazzi Laura
- PII-66** The role of neuropathic pain on alcohol related behaviours in a rat model
Palma Martina, Qin Di, Vellere Sofia, De Logu Francesco, Nassini Romina, Ciccocioppo Roberto, Domi Esi
- PII-67** N-3 PUFA supplementation in adulthood modulates diet-induced depressive-like phenotype in female rats
Palmieri Maria Adelaide, Agosti Lisa Pia, Morgese Maria Grazia, Trabace Luigia
- PII-68** Behavioural and neurochemical dysfunctions in the male adolescent and adult offspring of socially isolated rats
Palmieri Rossella Pia, Sikora Vladyslav, Schiavone Stefania, Trabace Luigia

Rare diseases and orphan drugs I

Chairperson: Cristiana Perrotta

- PII-69** ATM KO human neural progenitor cells as a valuable cellular platform for identifying novel drug targets in Ataxia-Telangiectasia
Boni Giulia, Dematteis Giulia, Ravasenga Tiziana, Romanazzi Tiziana, Lecchi Giulia, D'Angelo Camilla, Distasi Carla, Fresu Luigia Grazia, Lim Dmitry, Grilli Mariagrazia
- PII-70** Preliminary Investigation of Cellular Differentiation in an *In Vitro* Model of Neuromuscular Junction: Perspectives for Pharmacological Research in Neuromuscular Disorders
Canfora Vittoria, Carbone Gaia, Pierno Sabata, Camerino Giulia Maria
- PII-71** First safety evaluation of dasatinib as an enhancer of mutation-based therapeutic approaches in Duchenne muscular dystrophy
Cristiano Enrica, Quarta Raffaella, Boccanegra Brigida, Conte Elena, Mantuano Paola, Cappellari Ornella, De Luca Annamaria

- P11-72** Generation of 2D and 3D iPSC-derived neuronal models for the study of Congenital Central Hypoventilation Syndrome (CCHS)
 Cuadros Gamboa Ana Lucia, Piscitelli Eleonora, **Bertocchi Martina**, Chiesa Filippo, Pelucchi Paride, Di Lascio Simona, Benfante Roberta, Fornasari Diego
- P11-73** Combined *in silico* and *in vitro* study to repurpose drugs towards Kv1.1 and Kv1.2 potassium channels for the treatment of epilepsy and ataxia
Dinoi Giorgia, Tondo Anna Rita, Trisciuzzi Daniela, Siragusa Lydia, Mele Antonietta, Nicolotti Orazio, De Luca Annamaria, Liantonio Antonella, Imbrici Paola
- P11-74** Functional characterization of two novel Nav1.1 variants associated with Dravet syndrome selected from the Italian Registry of Dravet Syndrome Residras
 Dinoi Giorgia, Conte Elena, Mei Davide, Parrini Elena, Canfora Ileana, Buzzichelli Alessandra, Lombardini Martina, Balestrini Simona, Liantonio Antonella, De Luca Annamaria, Guerrini Renzo, **Imbrici Paola**
- P11-75** From untargeted to targeted HRMS-based proteomics: study of a biotechnological drug in plasma and CSF for Lafora disease
 Esposito Erika, **Caravelli Alice**, Cancellorini Chiara, Pizzi Eleonora, Minardi Raffaella, Muccioli Lorenzo, Tappatà Maria, Michelucci Roberto, Bisulli Francesca, Fiori Jessica
- P11-76** Comparative study of orphan drugs designated in Australia, the European Union, Japan and the United States of America
Lascu Beatrice, Ancuceanu Robert, Dinu Mihaela
- P11-77** A novel neuronal cell model for the study of Ataxia Telangiectasia
Lecchi Giulia, Boni Giulia, Grilli Mariagrazia, Fresu Luigia Grazia
- P11-78** “Of Mice And Measures” project: detailed characterization of the innovative D2.B10-Dmdmdx/J mouse model for preclinical studies of Duchenne Muscular Dystrophy preclinical studies
Marinelli Manuel, Mantuano Paola, Boccanegra Brigida, Tulumiero Lisamaura, Quarta Raffaella, Cristiano Enrica, Lenti Roberta, Mele Antonietta, Cappellari Ornella, De Luca Annamaria
- P11-79** LKB1 as a new potential druggable target in Duchenne Muscular Dystrophy: preclinical evaluation in cellular and murine dystrophic models
Tulumiero Lisamaura, Boccanegra Brigida, Conte Elena, Mantuano Paola, Quarta Raffaella, Decio Alessandra, Cappellari Ornella, Licandro Simonetta Andrea, Fiorino Monica, Spadotto Valeria, Fossati Gianluca, Steinkuhler Christian, De Luca Annamaria

Rare diseases and orphan drugs II

Chairperson: Paola Imbrici

- P11-80** Rare Diseases (RDs): beyond orphan drugs
Minichiello Cinzia, Mazzucato Monica, Fanton Giulia, Vianello Andrea, Visonà Dalla Pozza Laura, Toto Ema, Facchin Paola
- P11-81** Fluoxetine as a precision-medicine approach for epileptic encephalopathies caused by KCNT1 variants
Mosca Ilaria, Ambrosino Paolo, Puzo Deborah, Belperio Giorgio, Freri Elena, Granata Tiziana, Canafoglia Laura, Ragona Francesca, Solazzi Roberta, Filareto Ilaria, Castellotti Barbara, Messina Giuliana, Gellera Cinzia, Trivisano Marina, De Dominicis Angela, Specchio Nicola, DiFrancesco Jacopo C, Soldovieri Maria Virginia, Tagliatalata Maurizio
- P11-82** Patient-specific neuronal stem cells as an *in vitro* model for screening drug safety and efficacy for Aicardi-Goutières pediatric patients
Pugnetti Letizia, Braidotti Stefania, Ferraro Rosalba Monica, Franca Raffaella, Tommasini Alberto, Lucafò Marianna, Decorti Giuliana, Giliani Silvia, Gabriele Stocco
- P11-83** Orphan medicines authorised in Europe: an overview of the last 23 years
 Santi Laurini Greta, **Nikitina Victoria**, Montanaro Nicola, Motola Domenico
- P11-84** Precision medicine approaches for severe epilepsies caused by variants in KCNB1 potassium channels
Servettini Ilenio, Puzo Deborah, Ambrosino Paolo, Mosca Ilaria, La Neve Angela, Terrone Gaetano, Fontana Elena, Castellotti Barbara, Gellera Cinzia, Messina Giuliana, De Dominicis Angela, Filosomi Cristina, Granata Tiziana, Trivisano Marina, Di Francesco Jacopo Cosimo, Soldovieri Maria Virginia, Tagliatalata Maurizio

- P11-85** JMV2894, a growth hormone secretatogogue (GHS), in Duchenne muscular dystrophy: effects on metabolism of muscle satellite cells
Bresciani Elena, Rizzi Laura, Meanti Ramona, Gallazzi Elena, Sartori Emma, Liantonio Antonella, Cappellari Ornella, De Luca Annamaria, Fehrentz Jean-Alain, Denoyelle Séverine, Locatelli Vittorio
- P11-86** Central serous chorioretinopathy in endometriosis treatment with progestogen: a case report for metabolic understanding
Chiara Francesco, Mula Jacopo, Allegra Sarah, Turco Davide, Liuzzi Simona, Puccinelli Maria Paola, Mengozzi Giulio, De Francia Silvia
- P11-87** *Drosophila* models as platforms for identifying novel therapeutic candidates to restore lysosomal regeneration in Hereditary Spastic Paraplegia forms
Guarato Giulia, Vantaggiato Chiara, Brivio Francesca, Dianin Francesca, Speltoni Beatrice, Gumeni Sentiljana, Orso Genny
- P11-88** Developing 2D and 3D muscle models for functional and pharmacological studies of skeletal muscle ion channelopathies
Laghetti Paola, Lionello Valentina Maria, Altamura Concetta, Saltarella Ilaria, Tedesco Francesco Saverio, Desaphy Jean-Francois
- P11-89** A novel integrated pharmacological/antioxidant approach for Duchenne Muscular Dystrophy
Mocciaro Emanuele, Prata Cecilia, Zecchini Silvia, Ottria Roberta, Cervia Davide, Herelia Silvana, De Palma Clara, Clamenti Emilio, Perrotta Cristiana
- P11-90** Urine-derived Stem Cells (USCs) knock out for ATM effectively recapitulate ataxia-telangectasia cell pathology
Talmon Maria, Dematteis Giulia, Grilli Mariagrazia, Lim Dmitry, Fresu Luigia Grazia

Pharmacology of obesity and metabolic disorders

Chairperson: Gustavo Provensi

- P11-91** A novel TRPA1 channel activator promotes GLP-1 release in STC-1 cells
Bray Giorgia, Comparini Lucrezia, Galgani Giulia, Citi Valentina, Martelli Alma, Pineschi Mauro, Calderone Vincenzo
- P11-92** Long-term transcriptomic changes in the ventral hippocampus and liver of adult rats exposed to prenatal stress
D'Aprile Ilari, Petrillo Giulia, Marizzoni Moira, Saleri Samantha, Zonca Valentina, Mazzelli Monica, Riva Marco Andrea, Cattaneo Annamaria
- P11-93** Effects of the natural H₂S-donors Erucin and Sulforaphane, on a preadipocytes model developed to differentiate towards white adipocytes
Galgani Giulia, Flori Lorenzo, Bray Giorgia, Pellegrini Carolina, Ippolito Chiara, Bernardini Nunzia, Pagnotta Eleonora, Ugolini Luisa, Martelli Alma, Calderone Vincenzo
- P11-94** Anorexia-induced peripheral immune dysregulations activate aberrant microglial responses in the hippocampus of adolescent female rats
Parolaro Susanna, Da Dalt Lorenzo, Baragetti Andrea, Rizzi Beatrice, Bonacina Fabrizia, Norata Giuseppe Danilo, Fumagalli Fabio, Mottarlini Francesca, Caffino Lucia
- P11-95** High fat diet induced Histone3 K27 trimethylation is involved in the early onset of liver steatosis
Pinton Giulia, **Mantovani Elena**, Perucca Mattia, Gigliotti Valentina, Dematteis Giulia, Malecka Justyna, Chrostek Gabriela, Tapella Laura, Lim Dmitry, Moro Laura, Chiazza Fausto
- P11-96** An essential amino acid-based diet improves metabolic health via sex-dimorphic mechanisms
Ruocco Chiara, Ragni Maurizio, Spataro Letizia, Canciani Luca, Severi Ilenia, Cinti Saverio, Giordano Antonio, Carruba Michele Olivo, Bartolomucci Alessandro, Valerio Alessandra, Nisoli Enzo
- P11-97** Autophagy dysregulation in obesity-associated pathological alterations: possible protective effect of oleylethanolamide
Sepe Christian, Friuli Marzia, Eramo Barbara, Zahid Nisha, Bello Ivana, Panza Elisabetta, Gaetani Silvana, Romano Adele
- P11-98** Activity-based anorexia drives persistent alterations of autophagic mechanisms in the dorsal hippocampus of adolescent female rats
Taddini Sofia, Targa Giorgia, Rizzi Beatrice, Parolaro Susanna, Mottarlini Francesca, Fumagalli Fabio, Caffino Lucia

- PII-99** *In vitro* effects of polystyrene microplastics exposure on adipose tissue dysfunction
Trischitta Santi, Molonia Maria Sofia, Speciale Antonio, Salamone Federica Lina, Saija Antonina, Cimino Francesco
- PII-100** "Aglanico del Vulture" red wine polyphenolic extract (RWP) as dietary supplement for preventing obesity-associated cardiometabolic complications: the *in vitro* and *in vivo* pharmaco-toxicological profile
Desantis Vanessa, Andriano Alessandro, Caradonna Ingrid Catalina, Scaringella Antonietta, Marozzi Maria Luisa Sveva, Cicco Sebastiano, Infantino Vittoria, Solimando Antonio Giovanni, Nacci Carmela, Montagnani Monica, Potenza Maria Assunta
- PII-101** Novel insights into the neurobiological basis of Anorexia Nervosa: role of oxytocin in the anx/anx mous model
Eramo Barbara, Xu Jingjing, Gaetani Silvana, Nilsson Ida, Romano Adele
- PII-102** Different effects of PPAR-gamma agonists as inducers of "healthy" and "unhealthy" hypertrophic adipocytes
Molonia Maria Sofia, Speciale Antonio, Salamone Federica Lina, Saija Antonina, Cimino Francesco
- PII-103** Pharmacological inhibition of cyclin-dependent kinase 9 attenuates metabolic derangements in a murine model of high fat high sugar diet consumption
Porchietto Elisa, Aimaretti Eleonora, Collotta Debora, Ferreira Alves Gustavo, Einaudi Giacomo, Marzani Enrica, Mastrocola Raffaella, Aragno Manuela, Micioni di Bonaventura Maria Vittoria, Cifani Carlo, Collino Massimo
- PII-104** Single Cell RNA sequencing and Spatial Transcriptomic to profile Kupffer Cells during NASH and liver Cirrhosis
Vingiani Giovanni Battista, Fantini Francesca, Da Dalt Lorenzo, Norata Giuseppe Danilo
- PII-105** *Arthrospira platensis* (Spirulina) exhibits a preventive effect against metabolic inflammation in a murine model characterized by high-fat, high-sugar consumption
Aimaretti Eleonora, Porchietto Elisa, Mantegazza Giacomo, Gargari Giorgio, Collotta Debora, Einaudi Giacomo, Ferreira Alves Gustavo, Marzani Enrica, Algeri Alessandro, Dal Bello Federica, Aragno Manuela, Guglielmetti Simone, Mastrocola Raffaella, Cifani Carlo, Collino Massimo

Gender Pharmacology

Chairperson: Maria Grazia Morgese

- PII-106** www.farmagenere.unito.it: a new tool to enrich knowledge in sex and gender pharmacology
 Bodo Arianna, Allegra Sarah, Chiara Francesco, Caudana Maura, Shelton Agar Francesco Maximillian Anthony, Zanatta Marina, Di Pietro Asia, Di Grazia Daniela, Abbadessa Giuliana, **De Francia Silvia**
- PII-107** Health is a gender issue: focus on the trans* population
 Di Pietro Asia, Di Grazia Daniela, Chiara Francesco, Caudana Maura, Shelton Agar Francesco Maximillian Anthony, Zanatta Marina, Allegra Sarah, Abbadessa Giuliana, **De Francia Silvia**
- PII-108** Amniotic fluid cells respond to Mycoplasma hominis infection according to their sex
Campesi Ilaria, Fiori Pier Luigi, Rappelli Paola, Lodde Valeria, Doro Laura, Margarita Valentina
- PII-109** Sex and gender differences in the effect of Metformin in men and women with type 2 diabetes mellitus
Campesi Ilaria, Tonolo Giancarlo, Lodde Valeria, Caterino Marianna, Costanzo Michele, Ruoppolo Margherita, Puci Mariangela, Sotgiu Giovanni, Tolu Francesco, Cherchi Sara, Montella Andrea, Franconi Flavia
- PII-110** The effect of angiotensin 2 and cigarettes smoking on the expression of miRNAs in HUVECs depends on the sex of the donor
 Lodde Valeria, Capobianco Giampiero, Criscione Massimo, Montella Andrea, Franconi Flavia, **Campesi Ilaria**
- PII-111** Sex differences in adverse drug reactions: analysis of spontaneous reporting data from 2012 to 2022 in the Veneto Region
Stano Marilisa Giustina, Girotti Silvia, Soardo Federica, Frontalini Sara, Patuzzi Francesca, Moretti Ugo
- PII-112** The need for clinical studies on transgender and diverse gender people.
De Rosa Federica, Conti Valeria, Benedetto Roberta, Ferrara Antonietta, Vozzella Emilia Anna, D'Amato Vincenzo, Filippelli Amelia
- PII-113** Activities of 'Bergamo Poison Control Center': preliminary data on reports of adverse drug reactions in the five-year period 2019-2023
Rizzi Laura, Gallo Mariapina, Bacis Giuseppe, Torsello Antonio
- PII-114** The neurotrophic and neuroprotective effects on dopaminergic neurons induced by D3R-nAChR heteromer stimulation are potentiated by 17- β -estradiol
Sbrini Giulia, Mutti Veronica, Fadel Dounia, Tomasoni Zaira, Bono Federica, Fiorentini Chiara

Cancer Pharmacology I

Chairperson: Cristina Travelli

- PII-116** CLIC1 blockade by triamterene inhibits glioma stem cell proliferation and invasion impairing stemness features
Tremonti Beatrice, Dellacasagrande Irene, Pattarozzi Alessandra, Corsaro Alessandro, Thellung Stefano, Barbieri Federica, **Florio Tullio**
- PII-117** PD-L1 targeted liposomal doxorubicin exerts an immunomodulatory role and reduces cancer cell invasiveness in *in vitro* models of hepatocellular carcinoma
Zanotto Ilaria, Gabbia Daniela, Grigoletto Antonella, Toffanin Margherita, Mazzucco Veronica, De Rossi Anna, Pasut Gianfranco, De Martin Sara
- PII-118** From the Depths of the Mediterranean Sea to the Bench: Sidnyum elegans Extract as a Novel Promising Therapeutic Tool against Triple-Negative Breast Cancer
Bello Ivana, Barile Martina, Esposito Camilla, Casertano Marcello, Imperatore Concetta, Menna Marialuisa, Sorrentino Raffaella, Mitidieri Emma, d'Emmanuele di Villa Bianca Roberta, Panza Elisabetta
- PII-119** Targeting Lactate Transport and Cystine Import Undermines Antioxidant Defense in Chemotherapy-Resistant Medulloblastoma
Manfreda Lorenzo, Canton Martina, Zanolli Arianna, Marchioro Chiara, Rampazzo Elena, Mariotto Elena, Persano Luca, Viola Giampietro, **Bortolozzi Roberta**
- PII-120** Scanning acoustic microscopy to assess drug-induced effects in three-dimensional *in vitro* cancer models
Canaparo Roberto, Hertl Michael, Foglietta Federica, Richard Isaline, Genazzani Armando, Serpe Loredana
- PII-121** Effects of mPGES-1 inhibitors on eicosanoid lipidomics, growth, and invasion of human glioblastoma U-87 MG spheroids *in vitro*
Di Bernardino Sara, Contursi Annalisa, Hofling Ulrika, Zaghmi Ahlem, Tacconelli Stefania, Jakobsson Per-Johan, Larsson Karin, Patrignani Paola
- PII-122** Exploring the high potential of MSCs to perturb the tumor microenvironment and enhance chemosensitivity in preclinical models of metastatic PDAC
Ferrara Benedetta, Camisa Paolo Riccardo, Lanci Valeria, Rapisarda Smeralda, Citro Antonio, Gnasso Chiara, Andolfo Annapaola, Drago Denise, Zamarian Valentina, Annoni Andrea, Piemonti Lorenzo
- PII-123** The synergistic effect of Curcumin and Methotrexate on Hedgehog signaling pathway in Osteosarcoma.
Giliberti Giulia, **Di Paola Alessandra**, Di Feo Giuseppe, Marrapodi Maria Maddalena, Rossi Francesca
- PII-124** High density lipoproteins modulate the effects of oxysterols on prostate cancer cell lines
Cetti Federica, Garavaglia Carola, Pedrelli Matteo, Parini Paolo, **Gomaschi Monica**
- PII-125** Exploring Alternative BAG3 Targeting Approaches for pediatric medulloblastoma: From small molecules lead optimization to Fragment-Based Drug Discovery
Marchioro Chiara, Favaro Annagiulia, Budassi Federica, Canton Martina, Romagnoli Romeo, Rusnati Marco, Sturlese Mattia, Viola Giampietro, Mariotto Elena
- PII-126** Overcoming drug resistance in ovarian cancer cells by sonodynamic treatment
Serpe Loredana, Foglietta Federica, Genazzani Armando, Canaparo Roberto

Cancer Pharmacology II

Chairperson: Loredana Serpe

- P11-127** Harnessing synthetic lethality to identify BAG3-dependent PLK1 susceptibility in Glioblastoma Multiforme
Marchioro Chiara, Canton Martina, Persano Luca, Viola Giampietro, Mariotto Elena
- P11-128** Pf(IV) anticancer prodrugs: multiple strategies to overcome the limitations of classical alkylating agents
Marotta Carlo, Cirri Damiano, Pratesi Alessandro, Gabbiani Chiara
- P11-129** Differential enantiomer activities of a RAD51-BRCA2 inhibitor disclose intrinsic synthetic lethality to overcome PARPi resistance and potentially sensitise to immunotherapy in pancreatic cancer
Masi Mirco, Poppi Laura, Previtali Viola, Nelson Shannon, Varignani Giulia, De Franco Francesca, Falchi Federico, Albanesi Ennio, Tedesco Daniele, Ciamarone Andrea, Myers Samuel Harry, Ortega Jose Antonio, Bagnolini Greta, Ferrandi Giovanni, Farabegoli Fulvia, Di Stefano Giuseppina, Walsh Naomi, Roberti Marinella, Giroto Stefania, Cavalli Andrea
- P11-130** $\alpha 4\beta 1$ integrin targeting ligands for selective antineoplastic drug delivery in cancer cells
Maurizio Andrea, Giraldi Valentina, Giacomini Daria, Baiula Monica
- P11-131** Annexin A1 is involved in the antitumor effects of 5-azacytidine in human oral squamous carcinoma cells
Novizio Nunzia, Belvedere Raffaella, Palazzo Mariangela, Varrichio Silvia, Ilardi Gennaro, Merolla Francesco, Staibano Stefania, Petrella Antonello
- P11-132** EZH2 inhibitor decreases tumor growth through inflammatory and angiogenesis pathways modulation in oral squamous cell carcinoma
Scuderi Sarah Adriana, **Ardizzone Alessio**, Campolo Michela, Filippone Alessia, Bova Valentina, Capra Anna Paola, Esposito Emanuela, Paterniti Irene
- P11-133** Exploring the Connections Between NADPH Oxidase Activation and Mitochondrial Superoxide Formation in Arsenic Trioxide-Mediated Leukemic Cell Death
Spina Andrea, Guidarelli Andrea, Buffi Gloria, Fiorani Mara, Cantoni Orazio
- P11-134** Sulfonimide derivatives of bezafibrate as dual inhibitors of cyclooxygenase-2 and PPAR α
Tacconelli Stefania, Ammazalorso Alessandra, Contursi Annalisa, Hofling Ulrika, Cerchia Carmen, Di Bernardino Sara, Amoroso Rosa, La Vecchia Antonio, Patrignani Paola
- P11-135** Biocompatibility study of bioresorbable nanostructured chemical sensor for monitoring of pH level, in a mouse model
Vandini Eleonora, Corsi Martina, Pagni Alessandro, Mariani Stefano, Golinelli Giulia, Debrassi Aline, Egri Gabriella, Leo Giuseppina, Vilella Antonietta, Dähne Lars, Giuliani Daniela, Barillaro Giuseppe
- P11-136** Structure-activity of ERO1A inhibitors in restraining breast cancer fitness
Varone Ersilia, Retini Michele, Cherubini Alessandro, Guidarelli Andrea, Piersanti Giovanni, Bottegoni Giovanni, Mari Michele, Cantoni Orazio, **Zito Ester**
- P11-137** The nicotinamide phosphoribosyltransferase (NAMPT) as a novel therapeutic target for the treatment of glioblastoma multiforme (GBM)
Abram Nicole, Lanni Cristina, Travelli Cristina, Paolillo Mayra

POSTER SESSION III

November 15th

from 13.00 to 14.30

Respiratory Pharmacology

Chairperson: Fiorentina Roviezzo

- PIII-1** Inhaled administration of therapeutic RNAs in lung diseases: CD105 as a molecular target
Esposito Erika, Indolfi Chiara, Correale Melania, Brusco Susy, Mitidieri Emma, Costabile Gabriella, Ungaro Francesca, Sorrentino Raffaella, D'Emmanuele di Villa Bianca Roberta
- PIII-2** Co-administration of 5HT2B Receptor Antagonist and Adenosine A3 Receptor Agonist for the treatment of Bleomycin-Induced Lung Fibrosis in Mice
Lucarini Laura, Sgambellone Silvia, Marri Silvia, Villano Serafina, De Iacobis Mirko, Tosh Dilip K, Jacobson Kenneth A
- PIII-3** New imaging approach to evaluate the *in vivo* administration of nanostructured mycophenolic acid in a preclinical model of SSC-ILD
Mantovani Elena, Marengo Alessandro, Russo Davide, Ronchail Alessio, Clemente Nausicaa, Malerba Mario, Chiazza Fausto
- PIII-4** Investigating epithelial-mesenchymal transition: a thorough assessment with complimentary confocal and label free approaches
Medjiofack Djeujo Francine, Negrini Solimano Marco, Malfacini Davide, Ruscitti Francesca, Pitozzi Vanessa, Trevisani Marcello, Calò Girolamo, Marchini Gessica
- PIII-5** Wound Healing assay on epithelial alveolar cells: effects of profibrotic and antifibrotic agents
Negrini Marco Solimano, **Medjiofack Djeujo Francine**, Ruscitti Francesca, Malfacini Davide, Pitozzi Vanessa, Marchini Gessica, Trevisani Marcello, Calò Girolamo
- PIII-6** Human lung alveolar cells exposed to cigarette smoke: role of 3,5-diiodothyronine in mitochondrial dysfunction
Panico Francesca, Spaziano Giuseppe, Mirra Davida, Esposito Renata, Senese Rosalba, Petito Giuseppe, Lanni Antonia, Citraro Rita, Gallelli Luca, D'Agostino Bruno
- PIII-7** Bisphenol a-induced inflammatory response is associated to sphingolipid metabolism activation in airway epithelial cells
Simonelli Martina, Cerqua Ida, Granato Elisabetta, D'Avino Danilo, Capasso Raffaele, Pace Simona, Ialenti Armando, Rossi Antonietta, Roviezzo Fiorentina
- PIII-8** Endocrine disruptors: the silent killers of our everyday lives
Corrieri Camilla, Graziosi Agnese, Sita Giulia, Ghelli Luca, Hrelia Patrizia, Morroni Fabiana
- PIII-9** Chemicals dispersion in water environment: new insights from exposure studies on Zebrafish
Grisotto Jacopo, Poor Sasan Atena, Tavakolian Haghighi Shima, Bertasini Chiara, Salzano Sara, San Lorenzo Eleonora, Moretti Ugo, Paolone Giovanna
- PIII-10** Antimicrobials presence in the environment and effects on Zebrafish model
Grisotto Jacopo, Salzano Sara, Bertasini Chiara, San Lorenzo Eleonora, Moretti Ugo, Paolone Giovanna

Cancer Pharmacology III

Chairperson: Sarah Cargnin

- PIII-11** Exploring Ion Channel Modulators and Gene Expression for Novel Diffuse Intrinsic Pontine Glioma (DIPG) Treatment
Antonacci Marina, Maqoud Fatima, **Di Turi Annamaria**, Miciaccia Morena, Perrone Maria Grazia, Scilimati Antonio, Tricarico Domenico
- PIII-12** *In vitro* identification of potential molecular mechanisms underlying the synergistic activity of anti-CD19 monoclonal antibody in combination with metronomic chemotherapy in diffuse large B-cell lymphoma
Banchi Marta, Cox Maria Christina, Orlandi Paola, Bandini Arianna, Bocci Guido
- PIII-13** FXF-317, a novel selective HDAC6 inhibitor, exerts anticancer effects on triple-negative breast cancer cells
Barile Martina, Bello Ivana, Esposito Camilla, Barone Simona, Summa Vincenzo, Cirino Giuseppe, Brindisi Margherita, Panza Elisabetta

- PIII-14** Role of Glutathione in cancer patients: a systematic review
Basile Valerio, Cimino Adriana, Marini Herbert Ryan, Puzzolo Domenico, Minutoli Letteria
- PIII-15** Oleoylethanolamide and Palmitoylethanolamide Enhance IFN β -Induced Apoptosis in Human Neuroblastoma SH-SY5Y Cells
 Camoglio Chiara, Balla Jihane, Fadda Paola, **Dedoni Simona**
- PIII-16** Ferroptosis and ovarian cancer: new pharmacological approaches to counteract cisplatin resistance
Cocetta Veronica, Giacomini Isabella, Tinazzi Mattia, Montopoli Monica
- PIII-17** Development of an Extracellular Vesicles (EVs)-based formulation for the targeted delivery of therapeutic agents to tumor tissue
Crippa Elisabetta, Raineri Gloria, Rosa Silvia, Villa Alessandro, Ciana Paolo
- PIII-18** Biological profile of lipid nanoparticles for efficient delivery of RNA in colorectal cancer
De Cicco Paola, Amico Rebecca, Ferrillo Teresa, Conte Claudia, Quaglia Fabiana, Borrelli Francesca
- PIII-19** Influence of Glioblastoma Patient-Derived Extracellular Vesicles on Tumor Growth: Implications for Targeted Therapies
De Mitri Zemira, Malinverno Federica, Gallotti Alberto Luigi, Rossi Marco, Bello Lorenzo, Villa Alessandro, Ciana Paolo
- PIII-20** The presence of exhausted resident memory T cells leads to a better response to ICIs in lung adenocarcinoma
Di Caprio Simone, Colarusso Chiara, Falanga Anna, D'Andria Emmanuel, Terlizzi Michela, Sorrentino Rosalinda
- PIII-21** Structural and Biological Features of G-Quadruplex Aptamers as Promising Inhibitors of the STAT3 Signaling Pathway in Triple-negative breast cancer
Esposito Camilla, Bello Ivana, Barile Martina, Esposito Veronica, Bucci Mariarosaria, Benigno Daniela, Virgilio Antonella, Galeone Aldo, Panza Elisabetta
- PIII-22** Pharmacological characterization of newly synthesized Eph-ephrin antagonists
 Ferrari Francesca Romana, Zappia Alfonso, Giorgio Carmine, Tremonti Beatrice Federica, Barbieri Federica, Florio Tullio, Patterlini Virginia, Sonvico Fabio, Castelli Riccardo, Lodola Alessio, **Tognolini Massimiliano**
- PIII-23** Comparison of two mTOR inhibitors in pediatric high-grade glioma
Ferraro Chiara, Ruggiero Antonio, Navarra Pierluigi, Lisi Lucia

Cancer Pharmacology IV

Chairperson: Erika Cecchin

- PIII-24** Platelets involvement in angiogenic profiling of NSCLC patients
Filippelli Arianna, Del Gaudio Cinzia, Simonis Vittoria, Ciccone Valerio, Catanese Silvia, Scotti Vieri, Donnini Sandra
- PIII-25** Prostaglandin E2 and ERK5: empowered players in NSCLC malignancy
Filippelli Arianna, Del Gaudio Cinzia, Simonis Vittoria, Ciccone Valerio, Morbidelli Lucia, Tusa Ignazia, Roviola Elisabetta, Donnini Sandra
- PIII-26** Anti-tumor effects of LRRK2 inhibitor in repressing hepatocarcinoma progression
 Filippone Alessia, **Palermo Nicoletta**, Campolo Michela, Paterniti Irene, Esposito Emanuela
- PIII-27** The role of P2X7R in glioblastoma multiforme: putative antiproliferative effects
Graziano Michela, Martire Maria, Navarra Pierluigi, Lisi Lucia
- PIII-28** Combining curcumin's analogs with light to enhance their cytotoxicity in cancer cells: an *in vitro* study
 Greco Giulia, **Turrini Eleonora**, Belluti Federica, Calvaresi Matteo, Ferrini Fabio, Sestili Piero, Fimognari Carmela
- PIII-29** Vincristine Neuropathy in Pediatric Acute Lymphoblastic Leukemia: *In Vitro* studies with patient specific Models based on Induced Pluripotent Stem cells
Irshad Maria, Franca Raffaella, Pugnetti Letizia, Schillani Giulia, Naviglio Samuele, Ferraro Rosalba Monica, Lucafò Marianna, Decorti Giuliana, Rabusin Marco, Giliani Silvia, Giurici Nagua, Stocco Gabriele
- PIII-30** Adverse drug reactions in patients treated with immunotherapy as monotherapy or in combination with chemotherapy
Mazzeo Salvatore Maria, Conti Valeria, Pagano Annarita, Stefanelli Berenice, Donnarumma Danilo, Zarrella Adele, Arundine Dario, Centola Rossella, Caruso Stefania, Benedetto Roberta, Clementina Savastano, Pepe Stefano, Sabbatino Francesco, Filippelli Amelia

- PIII-31** Regulation of CD73 expression in BRAF mutated melanoma cells
Orlando Lavinia, Giraulo Caterina, Plaitano Paola, Morello Silvana
- PIII-32** Pharmacologic inhibition of CXCL11/CXCL12 chemokine network impairs proliferation, migration and neo-angiogenesis of stem cells in human meningioma
Barbieri Federica, Bajetto Adriana, Tremonti Beatrice, Corsaro Alessandro, Thellung Stefano, Florio Tullio, Barbieri Federica
- PIII-33** Targeting Mitochondrial Alterations to Overcome Doxorubicin Resistance in Osteosarcoma
Pinzerato Marco, **Giacomini Isabella**, Cocetta Veronica, Tinazzi Mattia, Cortini Margherita, Avnet Sofia, Baldini Nicola, Ragazzi Eugenio, Montopoli Monica
- PIII-34** A new perspective in Melanoma treatment: Melanocortin receptor 4 antagonist in association with B-Raf inhibitor Vemurafemib
Pioli Stefano, Orlandi Paola, Bandini Arianna, Ottani Alessandra, Vandini Eleonora, Bocci Guido, Giuliani Daniela
- PIII-35** Effects of dual coxib/thromboxane receptor antagonists on human endothelial cell permeability and angiogenesis
Ramaschi Giovanni Eugenio, Zinato Maddalena, Trevisi Lucia, Sala Angelo, Bolego Chiara

Inflammation Pharmacology II

Chairperson: Michela Campolo

- PIII-36** Pentraxin-3 levels in the follicular fluid to successfully predict blastocyst implantation: a pilot study
Capra Anna Paola, Ardizzone Alessio, Liuzzo Carmelo, Ferro Arianna, Galletta Marco, Esposito Emanuela
- PIII-37** SARS-CoV-2 and neurological disorders: an *in vitro* study using different cellular systems
Cristani Marco, Giardino Luciana, Romualdi Patrizia, Calzà Laura, Baldassarro Vito Antonio
- PIII-38** Sphingosine 1-phosphate released by hypoxic fibroblasts is involved in the polarization of M2 macrophages
D'Andria Emmanuel, Colarusso Chiara, Di Caprio Simone, Falanga Anna, Terlizzi Michela, Sorrentino Rosalinda
- PIII-39** Antioxidant potential of *Laurus nobilis* and *Pistacia lentiscus* extracts in intestinal epithelial cells and macrophages
De Fabrizio Vincenzo, Rispoli Rosaria Margherita, Radice Rosa Paola, Autore Giuseppina, Martelli Giuseppe, Marzocco Stefania
- PIII-40** Janus kinase inhibitors enhance prostanoid biosynthesis in human whole blood *in vitro*: implications for cardiovascular side-effects and prevention strategies
De Michele Alessandra, Alabbasi Sabreen, Tacconelli Stefania, de Vries Mirjam, Gunnarsson Iva, Di Gregorio Patrizia, Idborg Helena, Patrignani Paola, Jakobsson Per-Johan
- PIII-41** Calcipotriol reduces ecto-5'-nucleotidase (CD73) expression in the murine model of imiquimod-induced psoriasis-like lesion
De Palma Giacomo, Giraulo Caterina, Plaitano Paola, Morello Silvana, Cicala Carla
- PIII-42** JQ1 as an innovative epigenetic therapy to mitigate sepsis-induced hyperinflammation and multiorgan failure
Ferreira Alves Gustavo, Aimaretti Eleonora, Rubeo Chiara, Einaudi Giacomo, Porchietto Elisa, Marzani Enrica, Colotta Debora, Aragno Manuela, Fernandes Daniel, Penna Fabio, Cifani Carlo, Collino Massimo
- PIII-43** *In vitro* characterization of new JAK-3 inhibitors
Ferro Alice, Gallicet Marta, Sarchi Giulia Maria, Martina Katia, Gallicchio Margherita, Boscaro Valentina
- PIII-44** *In Vitro* anti-inflammatory activity of a peptide based on human Glucocorticoid Induced Leucine Zipper (GILZ) protein
Frolkov Artemii, Contini Raffaele, Paglialunga Musetta, Febo Marta, Bereshchenko Oxana, Riccardi Carlo, Migliorati Graziella, Bruscoli Stefano
- PIII-45** Chemical synthesis and biological activity of minor cannabinoids in an *in vitro* model of skin inflammation
Fumagalli Marco, Maiocchi Alice, Vismara Manuel, Blanco Asja, Ciriello Umberto, Paladino Giuseppe, Piazza Stefano, Martinelli Giulia, Fasano Valerio, Dell'Agli Mario, Passarella Daniele
- PIII-46** Platelets promotes proliferation and cell viability in human primary chondrocytes
Galipò Erika, Urzi Brancati Valentina, Minutoli Letteria
- PIII-47** The anti-inflammatory properties of DPP-4 inhibitors
Gerbino Chiara, Bordano Valentina, Spampinato Simona, Boscaro Valentina, Cannito Stefania, Rosa Arianna Carolina, Bocca Claudia, Klein Thomas, Dianzani Chiara, Benetti Elisa

- PIII-48** How a dietary supplement could preserve cellular homeostasis: an *in vitro* study
Gerbino Chiara, Bordano Valentina, Boscaro Valentina, Pizzimenti Stefania, Cucci Marie Angele, Rubiolo Patrizia, Marengo Arianna, Gallicchio Margherita, Spampinato Simona, Rosa Arianna Carolina, Giuliano Michela, Germano Antonio, Duò Omar, Dianzani Chiara, Benetti Elisa
- PIII-49** CD73/adenosine signalling is involved in keratinocytes behaviour during inflammation
Giraulo Caterina, De Palma Giacomo, Plaitano Paola, Orlando Lavinia, Cicala Carla, Morello Silvana

Neurodegenerative diseases II

Chairperson: Guendalina Olivero

- PIII-50** Autophagy is modulated in mouse retinal explants exposed to high glucose
Adornetto Annagrazia, Laganà Maria Luisa, Satriano Andrea, Bageffa Giacinto, Russo Rossella
- PIII-51** Role of tRNA-derived fragments in the rat pilocarpine model of epilepsy
Aleotti Valentina, Soukupova Marie, Guarino Annunziata, Marino Pietro, Asth Laila, Zucchini Silvia, Zaheer Saad, Perez Morrissey Elena, Prehn Jochen, Simonato Michele
- PIII-52** Preventive effects of conjugated linoleic acid (CLA) *in-vivo* oral treatment in the SOD1G93A preclinical model of amyotrophic lateral sclerosis
Bacchetti Francesca, Bonifacino Tiziana, Torazza Carola, Balbi Matilde, Ferramosca Alessandra, Tessitore Sara, Boccanebra Brigida, Pierno Sabata, Bonanno Giambattista, Bergamo Paolo, Milanese Marco
- PIII-53** A precision, cell-based therapeutic approach for Parkinson's disease linked to GBA1 and SNCA gene mutations
Bertasini Chiara, Salzano Sara, Grisotto Jacopo, Giallongo Dalila, San Lorenzo Eleonora, Wahlberg Lars, Lundkvist Johan, Paolone Giovanna
- PIII-54** Evaluation of depressive-like effects in an animal model of epilepsy
Birtolo Nicolò, Asth Laila, Guarino Annunziata, Soukupova Marie, Aleotti Valentina, Ester Anna Cocciolo, Pareo Cristiana, Zucchini Silvia, Simonato Michele, Ruzza Chiara
- PIII-55** Modulation of mitochondrial functions as therapeutic approach in a cellular model of Parkinson's disease using mouse dopaminergic-like cells
Biso Letizia, Viaggi Cristina, Bonaso Marco, Lombardi Francesca, Carli Marco, Scarselli Marco
- PIII-56** Choline alfoscerate alleviates neuroinflammation and improves cognitive function in a triple transgenic mouse model of Alzheimer's disease
Burgaletto Chiara, Munafò Antonio, Cantone Anna Flavia, Di Benedetto Giulia, Torrisi Sebastiano Alfio, Bellanca Carlo Maria, Gaudio Gabriella, Broggi Giuseppe, Caltabiano Rosario, Leggio Gian Marco, Bernardini Renato, Cantarella Giuseppina
- PIII-57** Ocrelizumab modulates vascular endothelial growth factor protein expression in patients affected by multiple sclerosis. (This study was unconditionally supported by Roche SpA)
 Campagnoli Lucrezia Irene Maria, Ahmad Lara, Greco Giacomo, Boschi Federica, **Marchesi Nicoletta**, Masi Francesco, Mallucci Giulia, Bergamaschi Roberto, Colombo Elena, Pascale Alessia
- PIII-58** The effects of different Glucose concentrations on PC12 cell culture
Cannas Claudia, Campesi Ilaria, Migheli Rossana
- PIII-59** Effects of trehalose treatment on gene expression in an Infantile Neuronal Ceroid Lipofuscinosis 'in vitro' model: focus on autophagy, neurogenesis and voltage-gated ion channels
Carbone Gaia, Canfora Vittoria, Camerino Giulia Maria
- PIII-60** Insights into heteromerization of dopamine D2 and oxytocin receptor in adult rat striatal astrocytes: allosteric modulation and glutamate release
Cervetto Chiara, Farsetti Elisa, Amato Sarah, Aversa Monica, Guidolin Diego, Gatta Elena, Candiani Simona, Pedrazzi Marco, Maura Guido, Agnati Luigi Francesco, Marcoli Manuela
- PIII-61** Serum amyloid A1 protein directly binds to TLR4 and the accessory protein MD-2 triggering the neuroinflammatory response
 Chemello Chiara, Marcolin Emma, Facci Laura, Giusti Pietro, Moro Stefano, **Zusso Morena**
- PIII-62** Ionotropic purinergic current in microglia cells is potentiated by cholesterol metabolites
Chisari Mariangela, Barraco Michele, Kudova Eva, Sortino Maria Angela

Neurodegenerative diseases IIIChairperson: **Simona Spampinato**

- PIII-63** Effect of clomipramine, venlafaxine and metformin on autophagic flow modulation in an *in vitro* model of multiple sclerosis
Cocciolo Ester Anna, Soukupova Marie, Guarino Annunziata, Aleotti Valentina, Birtolo Nicolò, Pareo Cristiana, Patergnani Simone, Simonato Michele, Zucchini Silvia
- PIII-64** Direct delivery of SIRT1 into human microglial cells: a liposome-based strategy
Merlo Sara, **Patti Aurora**, Caruso Grazia Ilaria, Russo Stefano, Sarpietro Maria Grazia, Sortino Maria Angela
- PIII-65** Combined motor and behavioural tracking approach to stratify ALS progression in SOD1G93A mice
Monaco Martina, Trebesova Hanna, Bacchetti Francesca, Balocco Tatiana, Polizzi Emily, Garavini Sara, Balbi Matilde, Grilli Massimo, Milanese Marco, Bonifacino Tiziana
- PIII-66** Evaluating the effect of Immune Activation in the 3xTg mouse model of Alzheimer's disease
Mostallino Rafaella, Mastio Andrea, Santoni Michele, Sagheddu Claudia, Mostallino Maria Cristina, Sanna Fabrizio, Pistis Marco, Castelli Maria Paola
- PIII-67** Exosomes released from presynaptic nerve terminals: potential markers of synaptic dysfunction during aging
Olivero Guendalina, Taddeucci Alice, Torre Veronica, Rosenwasser Nicole, Marimpietri Danilo, Cortese Katia, Gagliani Maria Cristina, **Pittaluga Annamaria**
- PIII-68** Involvement of autophagy and mitophagy in epileptogenesis
Pareo Cristiana, Guarino Annunziata, Soukupova Marie, Aleotti Valentina, Birtolo Nicolò, Cocciolo Ester Anna, Pietro Pola, Barbieri Mario, Patergnani Simone, Dhaouadi Nada, Simonato Michele, Marchi Saverio, Zucchini Silvia
- PIII-69** The non-psychoactive phytocannabinoids cannabidiolic and cannabigerolic acids as multi-target ligands against Alzheimer's disease
Perrone Michela, Vitale Rosa Maria, Morace Andrea Maria, D'Errico Antonio, Ricciardi Federica, Boccella Serena, Guida Francesca, Karsak Meliha, Caprioglio Diego, Di Martino Emanuele, Iannotti Fabio Arturo, Arcone Rosaria, Masullo Mariorosario, Maione Sabatino, Amodeo Pietro
- PIII-70** Neuroprotective effects of 6-(methylsulfanyl)hexyl isothiocyanate against mutant huntingtin-induced toxicity in Huntington's disease cell models
Prucoli Letizia, da Silva Neri Hiasmin Franciely, Ghedini Paulo Cesar, Tarozzi Andrea
- PIII-71** Complement regulates glutamate release and participates to synaptic deficiencies, in a multiple sclerosis mouse model
Rosenwasser Nicole, Torre Veronica, Taddeucci Alice, Roggeri Alessandra, Olivero Guendalina, Trebesova Hanna, Grilli Massimo, Pittaluga Anna
- PIII-72** FTD-GRN mouse model: characterization and development of an innovative precision therapy
Salzano Sara, Bertasini Chiara, San Lorenzo Eleonora, Grisotto Jacopo, Giallongo Dalila, Trevisan Alessandro, Filici Elisa, Behzadpour Donya, Wahlberg Lars, Lundkvist Johan, Paolone Giovanna
- PIII-73** Characterization of the senescent microglia phenotype in an animal model of chronic multiple sclerosis
Sasia Chiara, Galeotti Nicoletta
- PIII-74** Circulating microRNAs and isomiRs as biomarkers for the initial insult and epileptogenesis in four experimental epilepsy models – The EPITARGET study
Soukupova Marie, van Vliet Erwin A, Scheper Mirte, Mills James D, Puhakka Noora, Szydlowska Kinga, Ferracin Manuela, Lovisari Francesca, Zucchini Silvia, Srivastava Prashant K, Johnson Michael R, Lukasiuk Katarzyna, Gorter Jan A, Aronica Eleonora, Pitkänen Asla, Simonato Michele
- PIII-75** Energy metabolism reprogramming during differentiation of adult Neural Stem Cells and its impact on Alzheimer's disease.
Terenzi Valentina, Cerqueni Giorgia, Preziuso Alessandra, Serfilippi Tiziano, Piccirillo Silvia, Magi Simona, Lariccia Vincenzo
- PIII-76** Pioneering first-in-class FAAH-HDAC inhibitors as potential multitarget neuroprotective agents
Vincenzi Fabrizio, Pasquini Silvia, Contri Chiara, Cappello Martina, Papa Alessandro, Cursaro Ilaria, Carullo Gabriele, Gemma Sandra, Campiani Giuseppe, Butini Stefania, Varani Katia

Miscellaneous III

Chairperson: Eugenia Piragine

- PIII-77** The antiparkinsonian medication Ropinirole mediates the M2 muscarinic receptors *in vitro*: Implications for PD therapies
Petragnano Francesco, Fasciani Irene, Aloisi Gabriella, Maggio Roberto, Rossi Mario
- PIII-78** Pharmacological characterization of the clinically viable NOP receptor ligand sunobinop in the electrically stimulated mouse vas deferens
Pola Pietro, Ruzza Chiara, Pacifico Salvatore, Whiteside Garth T, Malfacini Davide, Calò Girolamo
- PIII-79** Adipose-derived mesenchymal stemcells (ASCs) medium: a promising approach for diabetic tendinopathy treatment
Russo Marina, Itrò Annalisa, Lepre Caterina Claudia, Braile Adriano, Trotta Maria Consiglia, D'Amico Michele, Tarantino Umberto, Gimigliano Francesca, Toro Giuseppe
- PIII-80** A new regulatory framework to struggle medicines shortages in Europe
Sbraga Emanuele, Allocati Eleonora, Gerardi Chiara, Pani Arianna, Banzi Rita
- PIII-81** Histamine H3R/NO donor hybrid compound as treatment for the resolution of fibrosis in the eye
Sgambellone Silvia, Lucarini Laura, Marri Silvia, Villano Serafina, Masini Emanuela, Frank Annika, Reiner-Link David, Khanfar Mohammad A
- PIII-82** Seleno-methionine pretreatment reduces cadmium toxicity in primary cultures of human chondrocytes
Urzi Brancati Valentina, Puzzolo Domenico, Galipò Erika, Minutoli Letteria
- PIII-83** MicroRNAs expression as promising therapeutic targets in ocular ischemia
Villano Serafina, Sgambellone Silvia, Marri Silvia, Reiner-Link David, Khanfar Mohammad A, Masini Emanuela, Stark Holger, Lucarini Laura
- PIII-84** Health Technology Assessment Commission: Governance of appropriateness and sustainability in a large Hospital
Zero Carmen, Guarnieri Greta, Dall'aglio Marta, Cervi Loretta
- PIII-85** Ketogenic diet prevents social dysfunctions and improves stress resilience in a preclinical model of prenatal stress exposure
Begni Veronica, Orso Rodrigo, Creutzberg Kerstin Camile, Cattaneo Annamaria, Riva Marco Andrea
- PIII-86** Role of the gut microbiota in thiopurines biotransformation: the case of *Pseudomonas aeruginosa*
 Franzin Martina, Sindici Forgiarini Sofia, Lagatolla Cristina, **Bellich Barbara**, Decorti Giuliana, Lucafò Marianna, Hofmann Ute, Schwab Matthias, Stocco Gabriele
- PIII-87** The promising pro-healing role of the association of mesoglycan and lactoferrin on skin lesions encouraged the production of mono and bilayer devices for wound dressing by coupling of electrospinning and supercritical impregnation techniques
Belvedere Raffaella, Novizio Nunzia, Mottola Stefania, Viscusi Gianluca, Palazzo Mariangela, Eletto Daniela, Porta Amalia, De Marco Iolanda, Gorrasi Giuliana, Petrella Antonello
- PIII-88** *Rhodiola rosea* L. modulates inflammatory processes in a CRH-activated BV2 model: targeting microglia with adaptogens
Borgonetti Vittoria, Governa Paolo, Biagi Marco, Galeotti Nicoletta, Corsi Lorenzo
- PIII-89** Environmental monitoring for the evaluation of professional exposure to antineoplastic agents in healthcare workers, the experience of three different hospital units.
Charlier Bruno, Coglianese Albino, Balsamo Anna Chiara, Parisi Francesca, Rufolo Sandra, Cozzolino Armando, Dal Piaz Fabrizio, Izzo Viviana, Filippelli Amelia
- PIII-90** Transient Receptor Potential Ankyrin 1 (TRPA1) channel deletion improves consolidation and retrieval of recognition memory
Costa Alessia, Souza Monteiro De Araujo Daniel, Chieca Martina, Begagli Maria Vittoria, Nassini Romina, De Logu Francesco, Provensi Gustavo

Miscellaneous IV

Chairperson: Lucia Morbidelli

- PIII-91** Role of Spa Therapy in Long COVID: Evidence from a Prospective Observational Study
Costantino Maria, Giudice Valentina, Farroni Mario, Marongiu Mariagrazia Bathilde, Filippelli Amelia
- PIII-92** Obesogenic effect of polychlorinated biphenyls: involvement of glycerol metabolism and role of aquaglyceroporins
Del Piano Filomena, Lama Adriano, Pirozzi Claudio, Melini Stefania, Opallo Nicola, Comella Federica, Mattace Raso Giuseppina, Meli Rosaria, Ferrante Maria Carmela
- PIII-93** Increased levels of Semaphorin 3A affect human brain endothelial cells morphology and disrupt endothelial barrier integrity
Ferretti Gabriella, Serafini Sara, Matrone Carmela
- PIII-94** Exploring Healthcare Professionals' Perspectives on Medication Adherence Tools: Results from an Italian Survey
Lunghi Carlotta, Donati Monia, Giunchi Valentina, Grillini Giulia, Domenicali Marco, Lunardelli Maria Lia, Milandri Susy, Mussoni Monica, Pieraccini Fabio, Sangiorgi Elisa, Raschi Emanuel, Colonnello Valentina, Poluzzi Elisabetta
- PIII-95** Protective effect of Nanovesicles with Ellagic Acid on A β -induced synaptic plasticity impairment: insights for Nose-to-Brain delivery
Maisto Nunzia, Rinaldi Federica, Mango Dalila, Nisticò Robert
- PIII-96** Identification of MicroRNAs from Plasma-derived Extracellular Vesicles in Adult Pharmacoresistant Focal Epilepsy
Palmisani Michela, Tartara Elena, Gagliardi Stella, Crema Francesca, Rizzo Bartolo, Alicino Angela, Lomonaco Domenico, Campomori Alessia, Galimberti Carlo, Andrea, **Dattino Francesca**, Fattore Cinzia, Tachella Federica, Fedele Guido, Franco Valentina
- PIII-97** Deciphering the interaction between N-palmitoyl-D-glucosamine and the endocannabinoidome
Schiano Moriello Aniello, Allarà Marco, Iannotti Fabio Arturo, Marcolongo Gabriele, Piscitelli Fabiana, Verde Roberta, Di Marzo Vincenzo, **Petrosino Stefania**
- PIII-98** Unveiling the missing link between cell membrane signaling and mitochondria NCLX regulation: crucial role of nitric oxide
Piccirillo Silvia, Ben-Kasus Nissim Tsipi, Avivi Ofir, Sekler Israel
- PIII-99** Cyp1a1 deficiency endows Type-2 dendritic cells with immunoregulatory functions
Pinzi Alessandro
- PIII-100** Patient derived skeletal muscle-on-chip as a drug screening and disease modelling platform for rare neuromuscular diseases.
Quarta Raffaella, Han Mitchell, Cristiano Enrica, Marinelli Manuel, Mouly Vincent, Gaio Nikolas, De Luca Annamaria, Cappellari Ornella
- PIII-101** Bioluminescent ratiometric probe for the measurement of ATP in Alzheimer's Disease
Tarantini Mario, Falzoni Simonetta, Carotti Marcello, Sandonà Dorianna, Pizzo Paola, Di Virgilio Francesco
- PIII-102** Past, present, and future role of the clinical pharmacologist in Italy: A Scoping Review
Vertullo Stefano, Singh Pardeep, Anghileri Marta, Condello Domenica, Osto Alice, Pani Arianna
- PIII-103** Binding kinetics of melatonin receptor ligands: experimental evidences
Vincenzi Fabrizio, Pasquini Silvia, Contri Chiara, Cappello Martina, Bedini Annalisa, Elisi Gian Marco, Fanini Fabiola, Retini Michele, Scalvini Laura, Spadoni Gilberto, Mor Marco, Rivara Silvia, Varani Katia
- PIII-104** The interplay between insula and habenula in the vulnerability or resilience to prenatal stress
Zonca Valentina, Marizzoni Moira, Saleri Samantha, Mazzelli Monica, Petrillo Giulioa, Di Benedetto Mariagrazia, De Cillis Floriana, Riva Marco Andrea, Cattaneo Annamaria

Cardiovascular and metabolic pharmacology II

Chairperson: Roberta D'Emmanuele Di Villa Bianca

- PIII-105** Cytisine safety in hospitalized smokers with cardiovascular diseases: an observational study
Tedesco Erika, Ceccato Sofia, Torazzi Alessandro, Santin Laura, Arzenton Elena, Marini Paola, Lugoboni Fabio, Chiamulera Cristiano
- PIII-106** Efficacy and safety of Cardioband in patients with tricuspid regurgitation: a systematic review with meta-analysis
Veneziano Sara, Piragine Eugenia, Trippoli Sabrina, Messori Andrea, Calderone Vincenzo
- PIII-107** Role of Simvastatin in cardioprotection: effects on Doxorubicin-induced cardiotoxicity
Vitale Roberta, Mazzone Mariangela, Di Marcantonio Maria Carmela, Pala Barbara, Mincione Gabriella, Marzocco Stefania, Popolo Ada
- PIII-108** β -glucan restores HSPCs mobilization in diabetes by downregulating Oncostatin M in bone marrow macrophages
Boscaro Carlotta, Rodella Anna, Migliozi Ludovica, Amendolagine Francesco Ivan, Fadini Gian Paolo, Albiero Mattia
- PIII-109** Cardiovascular implications of roflumilast in sepsis: risks or benefits?
Ferreira Alves Gustavo, Garcia de Oliveira Junior, Delfrate Gabrielle, de Almeida Nakashima Marcelo, Sordi Regina, Assreuy Jamil, Eduardo da Silva-Santos José, Collino Massimo, Fernandes Daniel
- PIII-110** Safety of Dapagliflozin and Empagliflozin in cases with Diabetes Mellitus or/and Heart Failure: A Retrospective Pharmacovigilance study
Mascolo Annamaria, Zinzi Alessia, Gaio Mario, Ruggiero Donatella, Scavone Cristina, Rossi Francesco, Capuano Annalisa
- PIII-111** Pharmacological modulation of sphingosine 1-phosphate (S1P) receptors in the macrophage: effects on lipid transport
 Dessena Mattia, Scauso Milena, Tartaglione Chiara, Nofer Jerzy-Roch, Zanotti Ilaria, **Papotti Bianca**, Pofi Francesco

Neuropharmacology III

Chairperson: Laura Musazzi

- PIII-112** Temporal dynamics of BDNF signaling recruitment in the rat prefrontal cortex and hippocampus following a single infusion of a translational dose of ketamine
Piva Alessandro, Caffino Lucia, Mottarlini Francesca, Rizzi Beatrice, Fumagalli Fabio, Chiamulera Cristiano
- PIII-113** Binge-like administration of alcohol mixed with energy drinks to male adolescent rats severely impacts on mesocortical dopaminergic function in adulthood
Puliga Roberta, Dazzi Laura, Acquas Elio, Bassareo Valentina
- PIII-114** Enhanced dopaminergic tone impairs GABAergic homeostasis in the striatum of dopamine transporter knockout rats
Rizzi Beatrice, Targa Giorgia, Mottarlini Francesca, Parolaro Susanna, Taddini Sofia, Leo Damiana, Caffino Lucia, Fumagalli Fabio
- PIII-115** The additive effect of ketamine in combination with electroconvulsive stimulation (ECS) in major depressive disorder (MDD): a translational study
Ruto Fabio, Soliman Isabella, Valtorta Flavia, De Gregorio Danilo
- PIII-116** D2 receptor blockade is permissive for noradrenergic activation of nigrostriatal dopamine transmission
Sagheddu Claudia, Devoto Paola, Pistis Marco, Gessa Gianluigi
- PIII-117** Social deficits in a rat model of autism are associated to a developmental impairment in the endocannabinoid and PPAR- α systems
Salviati Sara, Corridori Eleonora, Sabatini Giusi, Battista Natalia, Scheggi Simona, Gambarana Carla

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