



# FROM PHAGOCYTOSIS DISCOVERY TO TODAY: NEW INSIGHTS ON INFLAMMATION

September, 21<sup>th</sup>-22<sup>th</sup> 2023 Messina, Italy

Chiesa di S. Maria degli Alemanni  
Via Sant'Elia, 48



## Thursday, September, 21<sup>th</sup>

- 13:30 Registration desk opening
- 14:00 Welcome & introduction
- 14:30 **Selected oral communication – SESSION I**
- Chairpersons: Esposito E and Capasso R*
- 14:30 **Expression of CD69 on peripheral lymphocytes could predict infliximab response in pediatric patient with inflammatory bowel disease.** Debora Curci, Marianna Lucafò, Erica Valencic, Matteo Bramuzzo, Giuliana Decorti and Gabriele Stocco (University of Trieste)
- 14:45 **Sugar-induced metaflammation and its modulation by prebiotic fructooligosaccharides supplementation in rats fed diets high in fructose or galactose.** Debora Collotta, Fidèle Almasri, Elisa Porchietto, Eleonora Aimaretti, Raffaella Mastrocola, Manuela Aragno, Jan Frank and Massimo Collino (University of Torino)
- 15:00 **Loss of RACK1-related maintenance of epithelial barrier integrity in Ulcerative Colitis.** Roberta Limosani, Andrè Fiou, Mirco Masi, Giorgia Colombo, Marco Gentili, Luigi Cari, Francesca Fagiani, Alessandra Pasini, Marco Vincenzo Lenti, Antonio Di Sabatino, Cristina Travelli, Simona Ronchetti, Erica Buoso and Marco Racchi (University of Pavia)
- 15:15 **The para-phthalates and antimony used in the manufacture of PET induce in vitro adipocytes dysfunction and inflammation.** Maria Sofia Molonia, Antonio Speciale, Federica Lina Salamone, Giovanni Toscano, Antonella Saija and Francesco Cimino (University of Messina)
- 15:30 **Mangifera indica extract modulates lymphocytes egress and expansion on CD4+CD45RBhigh T cells transfer model of colitis and ameliorates inflammatory response in IBD patients.** Anella Saviano, Adel Abo Mansour, Noemi Marigliano, Federica Raucci, Peter Rimmer, Jenefa Begym, Zhaogong Zhi, Tariq Iqbal, Asif Jilani Iqbal, Giuseppe Cirino, Mariarosaria Bucci and Francesco Maione (University of Napoli)
- 15:45 **New Insights into the Mechanism of *Ulva pertusa* on Colitis in Mice: Modulation of the Pain and Immune System.** Alessio Ardizzone, Deborah Mannino, Anna Paola Capra, Alberto Repici, Alessia Filippone, Michela Campolo, Irene Paterniti, Salvatore Cuzzocrea and Emanuela Esposito (University of Messina)
- 16:00 Poster session I and coffee break
- 17:30 «Ist Messina Metchnicov Memorial Meeting»
- 21:00 Dinner

**Friday, September, 22<sup>th</sup>**

**09:00 Selected oral communication – SESSION II**

Chairpersons: D'Emmanuele Di Villa Bianca R and Cifani C

- 09:00 Immunomodulatory Effects of Statins in Inflammatory Bowel Disease through Aryl Hydrocarbon Receptor Activation in Dendritic Cells.** Giorgia Manni, Marco Gargaro, Letizia Mezzasoma, Giulia Mencarelli, Benedetta Pieroni, Doriane Ricciuti, Francesco Sarnari and Francesca Fallarino (University of Perugia)

- 09:15 Mechanistic insights into the attenuation of morphine-induced spinal neuroinflammation by ultramicronized palmitoylethanolamide.** Alessandra Toti, Laura Micheli, Elena Lucarini, Valentina Ferrara, Clara Ciampi, Francesco Margiotta, Daniel Venturi, Alfonsina D'Amato, Carla Ghelardini and Lorenzo Di Cesare Mannelli (University of Firenze)

- 09:30 Microglia signaling as a therapeutic target in epilepsy.** Antonio Leo, Francesca Bosco, Lorenza Guarneri, Martina Tallarico, Rita Citraro and Giovambattista De Sarro (University of Catanzaro)

- 09:45 Extracellular Nicotinamide Phosphoribosyltransferase (eNAMPT) neutralization counteracts T cell immune evasion in breast cancer.** Cristina Travelli, Giorgia Colombo, Joe G.N. Garcia, Mario Paolo Colombo, Sabina Sangalli and Armando A. Genazzani (University of Pavia)

**10:00 Lecture**

Prof. Carlo Riccardi "Glucocorticosteroids in regulation of immune/inflammatory response" (University of Perugia)

- 10:40** ☕ Coffee Break

**11:00 Selected oral communication – SESSION III**

Chairpersons: Minutoli L and Bruscoli S

- 11:00 New biologic (Ab-IPL-IL17™ monoclonal antibody) for IL-17-mediated diseases: Identification of the bioactive sequence (nIL-17™ peptide) for IL-17A/F function.** Anella Saviano, Adel Abo Mansour, Federica Raucci, Francesco Merlino, Noemi Marigliano, Anna Schettino, Donato Profeta, Lorys Pinti, Valentina Vellecco, Giuseppe Cirino, Mariarosaria Bucci, Paolo Grieco, Helen M McGettrick, Asif Jilani Iqbal and Francesco Maione. (University of Napoli)

- 11:15 The cytokine eNAMPT (Nicotinammide phosphoribosyltrasferase) and its post-translational modification in the regulation of inflammation.** Greta Cascetta, Chiara La Mantia, Giorgia Colombo, Michele Bianchi, Erika del Grosso, Armando Genazzani and Cristina Travelli (University of Pavia)

**Friday, September, 22<sup>th</sup>**

- 11:30 ***Wolfram syndrome is associated with an imbalance of the immune system and systemic inflammation.*** Eleonora Panfili, Marco Gargaro, Ciriana Orabona, Giada Mondanelli, Francesca Fallarino and Maria Teresa Pallotta (University of Perugia)
- 11:45 ***Immune checkpoint modulation with ICOS-Fc attenuates inflammation and multiple organ failure in murine sepsis.*** Gustavo Ferreira Alves, Ian Stoppa, Eleonora Aimaretti, Chiara Monge, Raffaella Mastrocoda, Elisa Porchietto, Giacomo Einaudi, Debora Collotta, Bertocchi Ilaria, Elena Boggio, Casimiro Luca Gigliotti, Nausicaa Clemente, Manuela Aragno, Daniel Fernandes, Christoph Thiemermann, Carlo Cifani, Chiara Dianzani, Umberto Dianzani and Massimo Collino (University of Camerino)
- 12:00 ***Anti-inflammatory role of Histamine H4 Receptor and Glucocorticoid Induced Leucin Zipper (GILZ) in a model of bleomycin-induced lung fibrosis in mice.*** Serafina Villano, Silvia Sgambellone, Marta Febo, Silvia Marri, Oxana Bereshchenko, Graziella Migliorati, Emanuela Masini, Carlo Riccardi, Stefano Bruscoli and Laura Lucarini (University of Firenze)
- 12:15 ***Glucocorticoid Induced Leucine Zipper (GILZ) is an intrinsic regulator of hematopoietic stem cell function.*** Marta Febo, Raffaele Contini, Musetta Paglialunga, Matilde Di Scala, Stefano Bruscoli, Carlo Riccardi, Graziella Migliorati and Oxana Bereshchenko (University of Perugia)
- 12:30 ***Decrease of mycophenolate mofetil plasma concentration in the presence of antibiotics: a case report in a cystic fibrosis patient with lung transplant.*** Giuliano Ponis, Gabriele Stocco, Egidio Barbi and Giuliana Decorti (University of Trieste)
- 12:45 ***Suspected oncologic adverse reactions associated with IL-23 inhibitors used for the therapy of psoriasis: comparative study and sex distribution.*** Fabrizio Calapai, Ilaria Ammendolia, Luigi Cardia, Mariaconcetta Currò and Carmen Mannucci (University of Messina)
- 13:00 **Poster session II and  lunch**
- 15:00 Wrap up and conclusions

**Thursday, September, 21<sup>th</sup>**

## **16:00 - 17:30 POSTER SESSION I**

*Chairpersons: Travelli C and Maione F*

- P1 Efficacy of the radical scavenger Tempol to reduce inflammation and oxidative stress in a murine model of atopic dermatitis.** Alberto Repici, Alessio Ardizzone, Federica De Gaetano, Valentina Bova, Giovanna Casili, Michela Campolo, Salvatore Cuzzocrea and Emanuela Esposito (University of Messina)
- P2 Glucocorticoid Induced Leucine Zipper (GILZ) based peptides, as a new therapeutic tool for the treatment of inflammatory bowel diseases.** Raffaele Contini, Musetta Paglialunga, Marta Febo, Oxana Bereshchenko, Simona Ronchetti, Carlo Riccardi, Graziella Migliorati and Stefano Bruscoli (University of Perugia)
- P3 Anti-inflammatory and neuroprotective potential of oleoylethanolamide in a rat model of diet induced obesity.** Marzia Friuli, Barbara Eramo , Nisha Zahid , Silvana Gaetani and Adele Romano (University of Roma)
- P4 Thinned apple polyphenols extract stimulates skin wound healing in nondiabetic/diabetic mice by Nfr2 signaling pathway activation.** Ylenia Marino, Livia Interdonato, Alessia Arangia, Francesco Molinari, Gianluca Antonio Franco, and Salvatore Cuzzocrea (University of Messina)
- P5 Antioxidant and anti-inflammatory effect of lycopene extract to be used for the treatment of osteoporosis.** Irene Gasparo, Federica Mannino, Natasha Irrera, Alessandra Bitto (University of Messina)
- P6 OXER1-associated signaling pathway as a promising druggable target in Triple Negative Breast Cancer (TNBC).** André Fiou, Roberta Valeria Limosani, Mirco Masi, Enrico Garattini, Marco Bolis, Alessia Buccellini, Fabiana Narciso, Alessandro Pinto, Luca Guarnera, Marco Racchi and Erica Buoso (University of Pavia)
- P7 eNAMPT (extracellular Nicotinamide Phosphoribosyltransferase) is a cytokine involved in controlling inflammation and fibrosis in gut disorders.** Greta Cascetta, Giorgia Colombo, Chiara La Mantia, Chiara Porta, Marco Vincenzo Lenti, Alessandra Pasini, Gian Paolo Caviglia, Davide Ribaldone, Antonio Di Sabatino and Cristina Travelli (University of Pavia)
- P8 Dimethyl fumarate and multiple sclerosis: evidence for a new mechanism of action involving the RNA-binding protein Hur.** Lucrezia Irene Maria Campagnoli, Nicoletta Marchesi, Giulia Mallucci, Federica Boschi, Stefano Govoni, Roberto Bergamaschi, Alessia Pascale (University of Pavia)
- P9 The anti-inflammatory effect of Polycarpa aurata extract as a source of hydrogen sulfide.** Chiara Indolfi, Erika Esposito, Ivana Bello, Marcello Casertano, Lorenzo Di Cesare Mannelli, Carla Ghelardini, Marialuisa Menna, Elisabetta Panza, Emma Mitidieri, Giuseppe Cirino, Raffaella Sorrentino, Concetta Imperatore, Roberta d'Emmanuele di Villa Bianca (University of Napoli)

**Thursday, September, 21<sup>th</sup>**

- P10 Neuroprotective effect of bFGF mimetic, SUN11602, on tissue regeneration and glial cells activation in an in vivo model of spinal cord injury.** Valentina Bova, Alessia Filippone, Alessio Ardizzone, Alberto Repici, Irene Paterniti, Salvatore Cuzzocrea and Emanuela Esposito (University of Messina)
- P11 MODULATION OF AUTOPHAGY REDUCE EXCITOTOXICITY IN A MODEL OF MPP+ INDUCED PARKINSON'S DISEASE** Chiara Cullotta, Chiara Imbesi, Federica Mannino, Natasha Irrera, Francesco Squadrito, Alessandra Bitto (University of Messina)
- P12 LRRK2 inhibition mitigates colon dysfunctions and mediates mitophagy associated with Parkinson's disease.** Deborah Mannino, Cucinotta Laura, Alessia Filippone, Irene Paterniti, Michela Campolo, Salvatore Cuzzocrea and Emanuela Esposito (University of Messina)
- P13 Prolyl oligopeptidase inhibition ameliorates experimental pulmonary fibrosis both in vivo and in vitro.** Laura Cucinotta, Deborah Mannino, Giovanna Casili, Michela Campolo, Irene Paterniti, Salvatore Cuzzocrea and Emanuela Esposito (University of Messina)
- P14 L-cysteine induces mouse paw edema via cystathionine  $\beta$ -synthase/sphingosine-1 phosphate/ nitric oxide axis.** Erika Esposito, Chiara Indolfi, Elisabetta Panza, Francesco Maione, Vincenzo Brancaleone, Valentina Vellecco, Giuseppe Cirino, Mariarosaria Bucci, Emma Mitidieri, Raffaella Sorrentino and Roberta d'Emmanuele di Villa Bianca (University of Napoli)



**Friday, September, 22<sup>th</sup>****13:00 - 15:00 POSTER SESSION II**Chairpersons: Marzocco S and Romano A

- P1 Hydrogen sulfide and Inflammation: interplay with resolution pathways and pro-resolving mediators.** Rosangela Montanaro, Emma Mitidieri, Valentina Vellecco, Flavia Carriero, Matt Whiteman, Elisabetta Panza, Giuseppe Terrazzano, Giuseppe Cirino, Mariarosaria Bucci, Roberta d'Emmanuele di Villa Bianca and Vincenzo Brancaleone (University of Basilicata)
- P2 Human glucocorticoid-induced leucine zipper gene regulation in IBD patients: a bioinformatics study.** Lucrezia Rosati, Luigi Cari, Giuseppe Leoncini, Graziella Migliorati and Simona Ronchetti (University of Perugia)
- P3 Inflammatory bowel disease patient-derived organoids for the evaluation of thiopurine effects on intestinal epithelium.** Marianna Lucafò, Antonella Muzzo, Matteo Bramuzzo, Lorenzo Giorio, Martina Franzin, Gabriele Stocco, Giuliana Decorti (University of Trieste)
- P4 Luteolin ameliorates experimental colitis in mice by altering innate immune response.** Donatella Ciccia, Francesca Biscu, Fabio A. Iannotti, Maria Francesca Nanì, Giuseppe Lucariello, Rebecca Amico, Barbara Romano, Francesca Borrelli, Gianluca Matteoli, Raffaele Capasso, Angelo A. Izzo and Ester Pagano (University of Naples)
- P5 Kadsurenin F protects intestinal epithelial cells against inflammatory and oxidative damage.** Shara Francesca Rapa, Birgit Waltenberger, Ada Popolo, Giuseppina Autore, Hermann Stuppner and Stefania Marzocco (University of Salerno)
- P6 Fungicide exposure aggravated autoimmune myocarditis activating TGF $\beta$ 1-Smad Pathway.** Gianluca Antonio Franco, Ylenia Marino, Alessia Arangia, Livia Interdonato, Francesco Molinari, and Salvatore Cuzzocrea (University of Messina)
- P7 Role of inflammation in acute Doxorubicin-induced cardiotoxicity.** Michela Pecoraro, Stefania Marzocco and Ada Popolo (University of Salerno)
- P8 Feasibility of prolyl oligopeptidase (PREP) as tumor biomarker in glioblastoma patients: a pilot study.** Giovanna Casili, Marika Lanza, Maria Caffo, Sarah Adriana Scuderi, Rossella Basilotta, Gabriele Pizzino, Lorenzo Colarossi, Alessandro D'Angelo, Anna Paola Capra, Michela Campolo, Salvatore Cuzzocrea, Emanuela Esposito, Irene Paterniti (University of Messina)
- P9 PF-04691502, a PI3K/mTOR dual inhibitor, improves learning deficits in APP/PS1 mice.** Marika Lanza, Giovanna Casili, Salvatore Oddo, Salvatore Cuzzocrea, Emanuela Esposito (University of Messina)
- P10 Blunting neuroinflammation by targeting the immunoproteasome with novel amide derivatives.** Chiara Imbesi, Roberta Ettari, Natasha Irrera, Maria Zappalà, Giovanni Pallio, Alessandra Bitto, Federica Mannino (University of Messina)

**Friday, September, 22<sup>th</sup>**

- P11 Genetic risk factors in autoinflammatory diseases and evaluation of pentraxin 3 as a promising marker of chronic clinical inflammation.** Anna Paola Capra, Alessio Ardizzone, Sara Briguori, Maria Angela La Rosa, Silvana Briglia, Emanuela Esposito (University of Messina)
- P12 Determination of the follicular fluid pentraxin 3 level and its impact on blastocyst implantation success: a pilot study.** Anna Paola Capra, Alessio Ardizzone, Carmelo Liuzzo, Arianna Ferro, Marco Galletta, Emanuela Esposito (University of Messina)
- P13 The pharmacological inhibition of casein kinase 2 induces apoptosis in an in vitro model of glioblastoma.** Alessia Filippone, Valentina Bova, Marika Lanza, Giovanna Casili, Irene Paterniti, Salvatore Cuzzocrea and Emanuela Esposito (University of Messina)



## SEGRETERIA SCIENTIFICA

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## COMITATO SCIENTIFICO

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**Prof.ssa Emanuela Esposito** Coordinatore GdL Infiammazione SIF

**Prof. Stefano Bruscoli**, Coordinatore GdL Infiammazione SIF

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