

# CURRICULUM VITAE

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Scopus ID: **57359357000**

Web of Science, Researcher ID: **JCO-4107-2023**

ORCID ID: **0000-0003-2094-8483**

## AFFILIATION TO SCIENTIFIC SOCIETIES

- Società italiana di Farmacologia (SIF)

## EDUCATION and WORKING EXPERIENCES

2024-2026

- Research Fellow working on the project “Interazione tra cervello e periferia *nei comportamenti alimentari disregolati: ruolo degli istoni deacetilasi, repressori trascrizionali e loro opportunità terapeutiche*”. Pharmacology Unit, University of Camerino, Supervisor: Professor Maria Vittoria Micioni Di Bonaventura

2020-2024

- PhD student in Chemical and Pharmaceutical Sciences and Biotechnology (XXXVI cycle), Pharmacology Unit, University of Camerino, Supervisor: Professor Carlo Cifani  
Scientific collaboration with the laboratories of Professor Massimo Collino and Professor Carola Eva at the Department of Neuroscience, University of Turin  
Scientific collaboration with the laboratory of Professor Matthias Blüher at “Helmholtz Institute for Metabolic, Obesity and Vascular Research” in Leipzig, Germany

2014-2020

- Master’s degree in Chemistry and Pharmaceutical Technologies with Top Grade (110/110 e lode)  
Department of Drug Science and Technology, University of Turin  
Thesis title: “Effects of Meds-23, a novel inhibitor of the canonical NF-κB pathway in an in-vivo model of stroke. Supervisors: Abed N. Azab” (Ben Gurion University of the Negev, Israel), Massimo Collino (University of Turin)

01.2019 -07.2019

- Research for master thesis abroad at the Department of Clinical Biochemistry and Pharmacology at the Ben-Gurion University, Beer-Sheva, Israel (P.I. Abed N. Azab)

2014

- Graduation as Chemical Expert Technical Institute "Mario Delpozzo" – Cuneo

## PUBLICATIONS *in extenso*

### Metrics:

11 Articles Published in Scientific Journals

H-Index (Web of Science): 4

Sum of Times Cited: 61

1. Giacomo Einaudi, Alessandra Oberto, Ilaria Bertocchi, Eleonora Aimaretti, Gustavo Ferreira Alves, Elisa Porchietto, Carlo Cifani, Maria Vittoria Micioni Di Bonaventura, Massimo Collino, Fausto Chiazza **Effects of Npy1r limbic conditional knock-out on adipose tissue metabolism. *Neuropharmacology***. 2026 Mar 20:110941. doi: 10.1016/j.neuropharm.2026.110941. Epub ahead of print. PMID: 41866109.
2. Luca Botticelli, Emanuela Micioni Di Bonaventura, Giacomo Einaudi, Gustavo Provensi, Alessia Costa, Claudio D'Addario, Carlo Cifani, Maria Vittoria Micioni Di Bonaventura. **Is there a role for cannabidiol in obesity, metabolic syndrome and binge eating?** *Br J Pharmacol*. 2025 Sep 27. doi: 10.1111/bph.70196. Epub ahead of print. PMID: 41014043.
3. Elisa Porchietto, Eleonora Aimaretti, Giacomo Einaudi, Gustavo Ferreira Alves, Debora Collotta, Enrica Marzani, Leonordo Camillò, Chiara Rubeo, Raffaella Mastrocola, Natasha Irrera, Manuela Aragno, Carlo Cifani, Massimo Collino. **Pharmacological inhibition of casein kinase II attenuates metaflammation in a murine model of diet-induced metabolic dysfunction.** *Int J Mol Med*. 2025 Nov;56(5):175. doi: 10.3892/ijmm.2025.5616. Epub 2025 Sep 10. PMID: 40927979; PMCID: PMC12425356.
4. Gustavo Ferreira Alves, Eleonora Aimaretti, Maria Luísa da Silveira Hahmeyer, Giacomo Einaudi, Elisa Porchietto, Chiara Rubeo, Enrica Marzani, Manuela Aragno, José Eduardo da Silva-Santos, Carlo Cifani, Daniel Fernandes, Massimo Collino. **Pharmacological inhibition of CK2 by silmitasertib mitigates sepsis-induced circulatory collapse, thus improving septic outcomes in mice.** *Biomed Pharmacother*. 2024 Sep;178:117191. doi: 10.1016/j.biopha.2024.117191. Epub 2024 Jul 30. PMID: 39079263.
5. Eleonora Aimaretti, Elisa Porchietto, Giacomo Mantegazza, Giorgio Gargari, Debora Collotta, Giacomo Einaudi, Gustavo Ferreira Alves, Enrica Marzani, Alessandro Algeri, Federica Dal Bello, Manuela Aragno, Carlo Cifani, Simone Guglielmetti, Raffaella Mastrocola, Massimo Collino. **Anti-Glycation Properties of Zinc-Enriched *Arthrospira platensis* (Spirulina) Contribute to Prevention of Metaflammation in a Diet-Induced Obese Mouse Model.** *Nutrients* 2024, 16, 552 doi: 10.3390/nu16040552
6. Gareth S. D. Purvis, Massimo Collino, Andrea D. van Dam, Giacomo Einaudi, Yujung Ng, Mayooran Shanmuganathan, Smita Y. Patel, Christoph Thiemermann, Keith M. Channon, David R. Greaves **OxPhos in adipose tissue macrophages regulated by BTK enhances their M2-like phenotype and confers a systemic immunometabolic benefit in obesity** *Diabetes* 2024 Jan 8;db220275. doi: 10.2337/db22-0275
7. Mariangela Pucci, Claudio D'Addario, Emanuela Micioni Di Bonaventura, Francesca Mercante, Eugenia Annunzi, Federico Fanti, Manuel Sergi, Luca Botticelli, Giacomo Einaudi, Carlo Cifani, Maria Vittoria Micioni Di Bonaventura. **Endocannabinoid System Regulation in Female Rats with Recurrent Episodes of Binge Eating.** *International Journal of Molecular Sciences*. 2022 Dec 3;23(23):15228. doi: 10.3390/ijms232315228
8. Gustavo Ferreira Alves, Ian Stoppa, Eleonora Aimaretti, Chiara Monge, Raffaella Mastrocola, Elisa Porchietto, Giacomo Einaudi, Debora Collotta, Ilaria Bertocchi, Elena Boggio, Casimiro Luca Gigliotti, Nausicaa Clemente, Manuela Aragno, Daniel Fernandes, Carlo Cifani, Christoph Thiemermann, Chiara Dianzani, Umberto Dianzani and Massimo Collino. **ICOS-Fc as innovative immunomodulatory approach to counteract inflammation and organ injury in sepsis.** *Frontiers in Immunology*. 2022; 13:992614. 2022, doi:10.3389/fimmu.2022.992614

9. Gustavo Alves, Eleonora Aimaretti, Giacomo Einaudi, Raffaella Mastrocola, Junior Garcia De Oliveira, Debora Collotta, Elisa Porchietto, Manuela Aragno, Carlo Cifani, Regina Sordi, Christoph Thiemermann, Daniel Fernandes, Massimo Collino. **Pharmacological inhibition of FAK-Pyk2 pathway protects against organ damage and prolongs the survival of septic mice.** *Frontiers in Immunology*. 2022; 13:837180. 2022. doi:10.3389/fimmu.2022.837180
10. Eleonora Aimaretti, Francesco Felicetti, Federica Dal Bello, Filippo Gatti, Alessandro Godono, Francesca Saba, Giacomo Einaudi, Massimo Collino, Franca Fagioli, Manuela Aragno, Enrico Brignardello. **Advanced glycation end products and their related signalling cascades in adult survivors of childhood Hodgkin lymphoma: A possible role in the onset of late complications.** *Free Radical Biology and Medicine*. 178:76-82 2022;. doi:10.1016/j.freeradbiomed.2021.11.036
11. Elina Rubin, Agnese C. Pippione, Matthew Boyko, Giacomo Einaudi, Stefano Sainas, Massimo Collino, Carlo Cifani, Marco L. Lolli, Naim Abu-Freha, Jacob Kaplanski, Donatella Boschi, Abed N Azab. **A New NF- $\kappa$ B Inhibitor, MEDS-23, Reduces the Severity of Adverse Post-Ischemic Stroke Outcomes in Rats.** *Brain Sciences*. Dec 28;12(1):35 2021. doi: 10.3390/brainsci12010035

## PROCEEDINGS

### Metrics:

**10 Published Proceeding in scientific journals (Conference abstracts) presented as posters or oral communication in scientific events (Conferences/Congresses/Symposia).**

- Alves Gustavo Ferreira, Aimaretti Eleonora, Rubeo Chiara, Marzani Enrica, Porchietto Elisa, Einaudi Giacomo, Camillò Leonardo, Aragno Manuela, Cifani Carlo, Collino Massimo. **Targeting necroptosis as a promising pharmacological strategy to counteract multiorgan failure in sepsis.** Meeting Abstract 21st Congress of the European Shock Society, September 18-21, 2025
- Gustavo Ferreira Alves, Ian Stoppa, Eleonora Aimaretti, Chiara Monge, Carlo Murzio, Raffaella Mastrocola, Elisa Porchietto, Giacomo Einaudi, Debora Collotta, Ilaria Bertocchi, Elena Boggio, Casimiro Luca Gigliotti, Nausicaa Clemente, Manuela Aragno, Daniel Fernandes, Christoph Thiemermann, Carlo Cifani, Chiara Dianzani, Umberto Dianzani, Massimo Collino. **ICOS-Fc as innovative immunomodulatory approach to counteract inflammation and organ injury in sepsis.** *Pharmadvances. Volume 5, special issue 2023, Conference Abstract (41st SIF National Congress), page 241. DOI: 10.36118/pharmadvances.2023.50*
- Gustavo Ferreira Alves, Eleonora Aimaretti, Giacomo Einaudi, Raffaella Mastrocola, Junior Garcia de Oliveira, Debora Collotta, Elisa Porchietto, Manuela Aragno, Carlo Cifani, Regina Sordi, Christoph Thiemermann, Daniel Fernandes, Massimo Collino. **Hyper-Inflammation and survival of septic mice are improved through pharmacological inhibition of the Fak-Pyk2 Axis.** *Pharmadvances. Volume 4, special issue, 2022, Conference Abstract (15th World Congress on Inflammation), page 14. DOI: 10.36118/pharmadvances.2022.38*
- Carlo Murzio, Gustavo Ferreira Alves, Fabio Penna, Eleonora Aimaretti, Giacomo Einaudi, Debora Collotta, Elisa Porchietto, Manuela Aragno, Carlo Cifani, Massimo Collino. **Bet Inhibitor JQ1 counteracts Hyperinflammatory Response and protects septic mice from organ damage.** *Pharmadvances. Volume 4, special issue, 2022, Conference Abstract (15th World Congress on Inflammation), page 28. DOI: 10.36118/pharmadvances.2022.38*

- Elisa Porchietto, Claudia Fornelli, Raffaella Mastrocola, Gustavo Ferreira Alves, Eleonora Aimaretti, Giacomo Einaudi, Carlo Murzio, Debora Collotta, Manuela Aragno, Carlo Cifani, Fabio Penna, Massimo Collino. **An in vivo study on the effects of BRD4 pharmacological targeting against diet-induced metaflammation.** *Pharmadvances. Volume 4, special issue, 2022, Conference Abstract (15th World Congress on Inflammation)*, page 29. DOI: 10.36118/pharmadvances.2022.38
- Eleonora Aimaretti, Francesco Felicetti, Federica Dal Bello, Filippo Gatti, Maurizio Cassader, Giacomo Einaudi, Franca Fagioli, Manuela Aragno, Massimo Collino, Enrico Brignardello. **Role of advanced glycation end products in evoking systemic chronic inflammation in adult hodgkin lymphoma survivors.** *Pharmadvances. Volume 4, special issue, 2022, Conference Abstract (15th World Congress on Inflammation)*, page 6. DOI: 10.36118/pharmadvances.2022.38
- Eleonora Aimaretti, Carlo Murzio, Gustavo Ferreira Alves, Giacomo Einaudi, Debora Collotta, Elisa Porchietto, Carlo Cifani, Alessandro Algeri, Manuela Aragno, Massimo Collino, Raffaella Mastrocola. **Anti-inflammatory and anti-glycative properties of zinc-enriched spirulina in diet-induced obese/diabetic mice.** *Free Radical Biology and Medicine. Volume 192, 2022, Meeting Abstract.* DOI: 10.1016/j.freeradbiomed.2022.10.152
- Gustavo Ferreira Alves, Eleonora Aimaretti, Giacomo Einaudi, Raffaella Mastrocola, Junior Garcia de Oliveira, Debora Collotta, Manuela Aragno, Christoph Thiernemann, Daniel Fernandes, Massimo Collino. **Inhibition of Fak-Pyk2 Pathway protects against organ damage and prolongs the survival of septic mice.** *Volume 3, special issue 2021, Conference Abstract (Immunopharmacology Meeting - SIF)*, page 18. DOI: 10.36118/pharmadvances.2021.17
- Eleonora Aimaretti, Francesco Felicetti, Federica Dal Bello, Filippo Gatti, Maurizio Cassader, Giacomo Einaudi, Carlo Cifani, Franca Fagioli, Manuela Aragno, Massimo Collino, Enrico Brignardello. **The systemic inflammatory response in Hodgkin lymphoma survivors: a role for advanced glycation end products.** *Volume 3, special issue 2021, Conference Abstract (Immunopharmacology Meeting - SIF)*, page 16. DOI: 10.36118/pharmadvances.2021.17
- Giacomo Einaudi, Gustavo Ferreira Alves, Debora Collotta, Raffaella Mastrocola, Fabio Penna, Claudia Fornelli, Eleonora Aimaretti, Manuela Aragno, Massimo Bertinaria, Carlo Cifani, Massimo Collino. **Pharmacological targeting of cyclooxygenase to counteract metaflammation in an in vivo model of diet-induced metabolic derangements.** *Volume 3, special issue 2021, Conference Abstract (Immunopharmacology Meeting - SIF)*, page 16. DOI: 10.36118/pharmadvances.2021.17

#### **ORAL COMMUNICATION and POSTERS PRESENTED IN CONGRESSES**

##### **Metrics:**

**10 Congresses**

**1 Summer/Winter schools**

**6 Poster presentations**

**4 Oral communications**

- **01. 2026 - Messina, Italy**

**Inflammatory-based diseases, neurodegeneration and metabolic disorders: from bench to the bedside**

**Oral communication:** Giacomo Einaudi, Fausto Chiazza, Ilaria Bertocchi, Eleonora Aimaretti,

Alessandra Oberto, Carlo Cifani, Maria Vittoria Micioni di Bonaventura, Massimo Collino. **Targeting NPY Pathways for Metabolic Disorders: Insights from Limbic Npy1r Deletion**

**Invited Speaker**

- **11. 2025 - Bologna, Italy**  
**XXVI Conference of Young SIF Pharmacologists**  
**Oral communication:** Giacomo Einaudi, Luca Botticelli, Emanuela Micioni Di Bonaventura, Carlo Cifani, Maria Vittoria Micioni Di Bonaventura **Role of the histone deacetylase inhibitor MS-275 on maladaptive feeding behaviour in a rat model of binge eating**
- **11. 2024 - Sorrento, Italy**  
**42° CONGRESSO SOCIETA' ITALIANA DI FARMACOLOGIA**  
**Oral communication:** Giacomo Einaudi, Fausto Chiazza, Ilaria Bertocchi, Eleonora Aimaretti, Alessandra Oberto, Carlo Cifani, Maria Vittoria Micioni Di Bonaventura, Massimo Collino. **Peripheral effects of limbic NPY-1R knockout on NPY's signalling and lipid metabolism**  
**Awarded best oral communication**
- **06. 2024 - Camerino, Italy**  
**Behavioral and metabolic aspects of obesity and eating disorders**  
**Poster presentation:** Giacomo Einaudi, Fausto Chiazza, Ilaria Bertocchi, Eleonora Aimaretti, Alessandra Oberto, Carlo Cifani, Maria Vittoria Micioni di Bonaventura, Massimo Collino. **Effects of limbic NPY-Y1 receptor knockout on adipose tissue**
- **07. 2023 - Glasgow, United Kingdom**  
**19th World Congress of Basic and Clinical Pharmacology (WCP2023)**  
**Poster presentation:** Giacomo Einaudi, Eleonora Aimaretti, Elisa Porchietto, Gustavo Ferreira Alves, Raffaella Mastrocola, Chiara Rubeo, Debora Collotta, Carlo Cifani, Manuela Aragno, Massimo Collino. **The potential role of Zn-Spirulina Platensis in counteracting advanced glycation end products harmful effects in a murine model of metabolic derangement.**
- **11.2022 - Rome, Italy**  
**41° CONGRESSO SIF (SOCIETA' ITALIANA DI FARMACOLOGIA)**  
**Oral communication (XXIV SIF Seminar on Pharmacology for PhD Students, Fellows, Post Doc and Specialist Trainees):** Giacomo Einaudi, Gustavo Ferreira Alves, Eleonora Aimaretti, Debora Collotta, Elisa Porchietto, Raffaella Mastrocola, Claudia Fornelli, Carlo Cifani, Manuela Aragno, Fabio Penna, Massimo Bertinaria, Massimo Collino. **Anti-inflammatory treatment with etodolac restores local insulin signalling and hormonal profile in a mice model of diet-induced metabolic derangements.**
- **06.2022 - Rome, Italy**  
**15th World Congress on Inflammation. New frontiers in inflammation: from translational research to clinic.**  
**Poster presentation:** Giacomo Einaudi, Gustavo Ferreira Alves, Debora Collotta, Massimo Bertinaria, Eleonora Aimaretti, Claudia Fornelli, Raffaella Mastrocola, Carlo Cifani, Manuela Aragno, Fabio Penna, Massimo Collino. **Beneficial effects of the pharmacological modulation of metaflammation by etodolac in an in-vivo model of diet-induced metabolic derangements**
- **11.2021 - Perugia, Italy**  
**I meeting monotematico di Immunofarmacologia**  
**Poster presentation:** Giacomo Einaudi, Gustavo Ferreira Alves, Debora Collotta, Raffaella Mastrocola, Fabio Penna, Claudia Fornelli, Eleonora Aimaretti, Manuela Aragno, Massimo Bertinaria, Carlo Cifani, Massimo Collino. **Pharmacological targeting of cyclooxygenase to counteract metaflammation in an *in vivo* model of diet-induced metabolic derangements.**

- **07.2021 – Online congress**  
**European Behavioural Pharmacology Society Biennial Meeting 2021**  
**Poster presentation:** Elina Rubin, Agnese C. Pippione, Matthew Boyko, Giacomo Einaudi, Stefano Sainas, Massimo Collino, Marco L. Lolli, Carlo Cifani, Jacob Kaplanski, Abed N Azab. **Inhibition of the canonical NFκB cascade reduces morbidity in a rat model of stroke but does not prevent the onset of behavioral disorders**
- **05. 2021 – Padova, Italy (virtually)**  
**International Summer School in Microbiota, Immunity, and Neurons: Decoding functional and molecular host–microbiota communication IN the GUT – MINDinGUT – (16 h).**
- **03.2021 – Online congress**  
**40° CONGRESSO SIF (SOCIETÀ ITALIANA DI FARMACOLOGIA)**  
**Poster presentation:** Gustavo Ferreira Alves, Debora Collotta, Barbara Mulè, Francesca Baratta, Daniele Zonari, Carlo Cifani, Giacomo Einaudi, Sigal Fleisher-Berkovich, Shimon Ben-Shabat, Paola Brusa, Massimo Collino **Effects of cannabidiol and angiotensin-II receptor antagonists on LPS-induced neuroinflammatory responses in BV2 microglial cells**

#### CO-AUTHORSHIP IN CONFERENCE ABSTRACTS

##### **Metrics:**

**45+ Co-authorship in Conference abstracts presented as posters or oral communication in scientific events (Conferences/Congresses/Symposia).**

- Titi Costanza, Micioni di Bonaventura Emanuela, Costa Alessia, Sordi Virginia, Botticelli Luca, Einaudi Giacomo, Koziara Zuzanna, Passani Maria Beatrice, Cifani Carlo, Micioni di Bonaventura Maria Vittoria, Provensi Gustavo **Targeting the Histaminergic system: a novel approach to preventing Binge-Like Eating** XXVI Conference of Young SIF Pharmacologists – Bologna 2025
- Ferreira Alves Gustavo, Aimaretti Eleonora, Rubeo Chiara, Marzani Enrica, Porchietto Elisa, Einaudi Giacomo, Camillò Leonardo, Aragno Manuela, Cifani Carlo, Collino Massimo **Pharmacological inhibition of necroptosis ameliorates multiorgan dysfunction in a murine model of sepsis** XXVI Conference of Young SIF Pharmacologists – Bologna 2025
- Botticelli Luca, Einaudi Giacomo, Koziara Zuzanna, Micioni Di Bonaventura Emanuela, Del Bello Fabio, Mammoli Valerio, Provensi Gustavo, Costa Alessia, Matteucci Federica, Quaglia Wilma, Piergentili Alessandro, Giorgioni Gianfabio, Micioni Di Bonaventura Maria Vittoria, Cifani Carlo **Investigation of the effect of a selective dopamine D4 receptor (D4R) antagonist in an animal model of binge eating** Conference of Young SIF Pharmacologists – Bologna 2025
- Chiara Rubeo, Gustavo Ferreira Alves, Eleonora Aimaretti, Giacomo Einaudi, Elisa Porchietto, Debora Collotta, Enrica Marzani, Raffaella Mastrocola, Pasquale Pagliaro, Manuela Aragno, Carlo Cifani, Massimo Collino **Pharmacological targeting of RSK as innovative strategy to improve sepsis-induced injury** 42° Congresso Nazionale della SIF “Science today for a better medicine tomorrow” – Sorrento 2024
- Eleonora Aimaretti, Elisa Porchietto, Giacomo Mantegazza, Giorgio Gargari, Debora Collotta, Giacomo Einaudi, Gustavo Ferreira Alves, Enrica Marzani, Alessandro Algeri, Federica Dal Bello, Manuela Aragno, Simone Guglielmetti, Raffaella Mastrocola, Carlo Cifani, Massimo Collino **Arthrospira platensis (Spirulina) exhibits a preventive effect against metabolic inflammation in a murine model characterized by high-fat, high-sugar consumption.** 42° Congresso Nazionale della SIF “Science today for a better medicine tomorrow” – Sorrento 2024

- Eleonora Aimaretti, Elisa Porchietto, Gustavo Ferreira Alves, Giacomo Einaudi, Debora Collotta, Chiara Rubeo, Enrica Marzani, Raffaella Mastrocola, Manuela Aragno, Carlo Cifani, Massimo Collino **Exploring the potential of repurposing Fostamatinib, a SYK inhibitor, in a murine model exhibiting diet-induced insulin resistance and neuroinflammation.** 42° Congresso Nazionale della SIF “Science today for a better medicine tomorrow” – Sorrento 2024
- Eleonora Aimaretti, Michela Presti, Francesco Felicetti, Alessandro Godono, Mario Levis, Barbara Botto, Federica Cavallo, Chiara Rubeo, Emanuela Arvat, Massimo Collino, Manuela Aragno **Hodgkin Lymphoma survivors: role of Advance Glycation End products and inflammation in premature aging** 42° Congresso Nazionale della SIF “Science today for a better medicine tomorrow” – Sorrento 2024
- Enrica Marzani, Gustavo Ferreira Alves, Eleonora Aimaretti, Elisa Porchietto, Giacomo Einaudi, Debora Collotta, Raffaella Mastrocola, Manuela Aragno, Carlo Cifani, Simona Federica Spampinato, Massimo Collino **Exploring CDK9 pharmacological potential in sepsis: implications for the endothelium.** 42° Congresso Nazionale della SIF “Science today for a better medicine tomorrow” – Sorrento 2024
- Elisa Porchietto, Eleonora Aimaretti, Gustavo Ferreira Alves, Giacomo Einaudi, Chiara Rubeo, Debora Collotta, Enrica Marzani, Raffaella Mastrocola, Manuela Aragno, Carlo Cifani, Massimo Collino. **CK2 inhibition ameliorates metabolic inflammation in a murine model of high fat high sugar diet consumption.** 42° Congresso Nazionale della SIF “Science today for a better medicine tomorrow” – Sorrento 2024
- Elisa Porchietto, Eleonora Aimaretti, Debora Collotta, Gustavo Ferreira Alves, Giacomo Einaudi, Enrica Marzani, Raffaella Mastrocola, Manuela Aragno, Maria Vittoria Micioni di Bonaventura, Carlo Cifani, Massimo Collino. **Pharmacological inhibition of cyclin-dependent kinase 9 attenuates metabolic derangements in a murine model of high fat high sugar diet consumption** 42° Congresso Nazionale della SIF “Science today for a better medicine tomorrow” – Sorrento 2024
- Gustavo Ferreira Alves; Aimaretti, Eleonora; Hahmeyer, Maria Luísa da Silveira; Einaudi, Giacomo; Porchietto, Elisa; Rubeo, Chiara; Marzani, Enrica; Aragno, Manuela; da Silva-Santos, José Eduardo; Cifani, Carlo; Fernandes, Daniel; Collino, Massimo. **Inhibition of CK2 with silmitasertib counteracts circulatory collapse and enhances outcomes in murine sepsis** 42° Congresso Nazionale della SIF “Science today for a better medicine tomorrow” – Sorrento 2024
- Gustavo Ferreira Alves, Eleonora Aimaretti, Chiara Rubeo, Chiara Verra, Giacomo Einaudi, Elisa Porchietto, Enrica Marzani, Manuela Aragno, Daniel Fernandes, Christoph Thiemermann, Fabio Penna, Carlo Cifani, and Massimo Collino. **JQ1 as an innovative epigenetic therapy to mitigate sepsis-induced hyperinflammation and multiorgan failure** 42° Congresso Nazionale della SIF “Science today for a better medicine tomorrow” – Sorrento 2024
- Gustavo Ferreira Alves; Delfrate, Gabrielle; Oliveira, Junior Garcia; Nakashima, Marcelo Almeida; Sordi, Regina; Assreuy, Jamil; da Silva-Santos, José Eduardo; Collino, Massimo; Fernandes, Daniel. **Cardiovascular implications of roflumilast in sepsis: risks or benefits?** 42° Congresso Nazionale della SIF “Science today for a better medicine tomorrow” – Sorrento 2024
- Enrica Marzani, Gustavo Ferreira Alves, Eleonora Aimaretti, Elisa Porchietto, Giacomo Einaudi, Debora Collotta, Raffaella Mastrocola, Manuela Aragno, Carlo Cifani, Simona Federica Spampinato, Massimo Collino **Pharmacological inhibition of CDK9 protects against brain endothelial barrier dysfunction evoked by sepsis.** National meeting of PhD students in neuroscience, SINS – Napoli, 2024

- Enrica Marzani, Gustavo Ferreira Alves, Eleonora Aimaretti, Elisa Porchietto, Giacomo Einaudi, Debora Collotta, Raffaella Mastrocola, Manuela Aragno, Carlo Cifani, Simona Federica Spampinato, Massimo Collino **Pharmacological inhibition of CDK9 in sepsis-associated encephalopathy: impact on microvascular endothelial function.** 7th Brainstorming research assembly for young neuroscientists, Brayn – Verona, 2024
- Chiara Rubeo, Gustavo Ferreira Alves, Eleonora Aimaretti, Giacomo Einaudi, Elisa Porchietto, Debora Collotta, Enrica Marzani, Raffaella Mastrocola, Pasquale Pagliaro<sup>1</sup>, Manuela Aragno, Carlo Cifani, Massimo Collino **Pharmacological targeting of RSK as innovative strategy to improve sepsis-induced injury** 9th European Congress of Pharmacology (EPHAR) – Athens, Greece 2024
- Eleonora Aimaretti, Elisa Porchietto, Gustavo Ferreira Alves, Giacomo Einaudi, Debora Collotta, Chiara Rubeo, Enrica Marzani, Raffaella Mastrocola, Carlo Cifani, Manuela Aragno, Massimo Collino **Potential repurposing of the SYK inhibitor Fostamatinib in a diet-induced model of insulin resistance: an in vivo study** 9th European Congress of Pharmacology (EPHAR) – Athens, Greece 2024
- Eleonora Aimaretti, Elisa Porchietto, Giacomo Mantegazza, Giorgio Gargari, Debora Collotta, Giacomo Einaudi, Gustavo Ferreira Alves, Enrica Marzani, Alessandro Algeri, Federica Dal Bello, Manuela Aragno, Carlo Cifani, Simone Guglielmetti, Raffaella Mastrocola, Massimo Collino **Anti-glycation properties of Zinc-enriched Arthrospira platensis (Spirulina) prevent diet-induced “metaflammation” in a mouse model** 9th European Congress of Pharmacology (EPHAR) – Athens, Greece 2024
- Elisa Porchietto, Eleonora Aimaretti, Gustavo Ferreira Alves, Giacomo Einaudi, Chiara Rubeo, Debora Collotta, Enrica Marzani, Raffaella Mastrocola, Manuela Aragno, Carlo Cifani, Massimo Collino. **“Casein kinase 2 (CK2) inhibition alleviates diet-induced harmful effects in a murine model of high fat diet consumption”.** 9th European Congress of Pharmacology (EPHAR) – Athens, Greece 2024
- Elisa Porchietto, Debora Collotta, Eleonora Aimaretti, Gustavo Ferreira Alves<sup>1</sup>, Giacomo Einaudi, Enrica Marzani, Raffaella Mastrocola, Manuela Aragno, Carlo Cifani, Massimo Collino. **“Pharmacological inhibition of cyclin-dependent kinase 9 (CDK9) ameliorates metabolic abnormalities evoked by chronic consumption of hypercaloric diet in mice”.** 9th European Congress of Pharmacology (EPHAR) – Athens, Greece 2024
- Enrica Marzani, Gustavo Ferreira Alves, Eleonora Aimaretti, Elisa Porchietto, Giacomo Einaudi, Debora Collotta, Raffaella Mastrocola, Manuela Aragno, Carlo Cifani, Simona Federica Spampinato, Massimo Collino. **CDK9 regulation as a novel pharmacologic approach in sepsis: the role of endothelium.** 9th European Congress of Pharmacology (EPHAR) – Athens, Greece 2024
- Gustavo Ferreira Alves; Delfrate, Gabrielle; Oliveira, Junior Garcia; Nakashima, Marcelo Almeida; Sordi, Regina; Assreuy, Jamil; da Silva-Santos, José Eduardo; Collino, Massimo; Fernandes, Daniel. **PDE-4 inhibition with Roflumilast does not improve cardiovascular abnormalities and survival of septic rats** 9th European Congress of Pharmacology (EPHAR) – Athens, Greece 2024
- Gustavo Ferreira Alves; Aimaretti, Eleonora; Hahmeyer, Maria Luísa da Silveira; Einaudi, Giacomo; Porchietto, Elisa; Rubeo, Chiara; Collotta, Debora; Marzani, Enrica; Mastrocola, Raffaella; Aragno, Manuela; da Silva-Santos, José Eduardo; Cifani, Carlo; Fernandes, Daniel; Collino, Massimo. **Pharmacological inhibition of CK2 with Silmitasertib protects against sepsis-induced cardiovascular dysfunction by interfering with nitric oxide release** 9th European Congress of Pharmacology (EPHAR) – Athens, Greece 2024

- Eleonora Aimaretti, Fidele Almasri, Debora Collotta, Nadine Sus, Manuela Aragno, Federica Dal Bello, Ilaria Bertocchi, Raffaella Mastrocola, Rikard Landberg, Jan Frank, Massimo Collino **Fructooligosaccharides protects from metabolic disorders caused by long-term fructose or Galactose consumption in rats** 2<sup>nd</sup> edition “Behavioral and Metabolic Aspects of Obesity And Eating Disorders” – Convegno monotematico dal GdL Obesità, Sindrome Metabolica e Disordini Alimentari della SIF - Camerino, 2024
- Eleonora Aimaretti, Elisa Porchietto, Gustavo Ferreira Alves, Giacomo Einaudi, Debora Collotta, Chiara Rubeo, Enrica Marzani, Beatrice Capuani, Raffaella Mastrocola, Manuela Aragno, Carlo Cifani, Massimo Collino **Potential repurposing of the SYK inhibitor Fostamatinib in a murine model of diet-induced insulin resistance and neuroinflammation** 2<sup>nd</sup> edition “Behavioral and Metabolic Aspects of Obesity And Eating Disorders” – Convegno monotematico dal GdL Obesità, Sindrome Metabolica e Disordini Alimentari della SIF - Camerino, 2024
- Elisa Porchietto, Eleonora Aimaretti, Giacomo Mantegazza, Giorgio Gargari, Debora Collotta, Giacomo Einaudi, Gustavo Ferreira Alves, Enrica Marzani, Alessandro Algeri, Federica Dal Bello, Manuela Aragno, Simone Guglielmetti, Raffaella Mastrocola, Carlo Cifani, Massimo Collino. **“Arthrospira platensis (Spirulina) prevents metabolic inflammation in a murine model of high fat high sugar consumption”**. 2<sup>nd</sup> edition “Behavioral and Metabolic Aspects of Obesity And Eating Disorders” – Convegno monotematico dal GdL Obesità, Sindrome Metabolica e Disordini Alimentari della SIF - Camerino, 2024
- Elisa Porchietto, Eleonora Aimaretti, Debora Collotta, Gustavo Ferreira Alves, Giacomo Einaudi, Enrica Marzani, Leonardo Camillò, Raffaella Mastrocola, Manuela Aragno, Maria Vittoria Micioni di Bonaventura, Carlo Cifani, Massimo Collino. **“Inhibition of Cyclin-Dependent Kinase 9 (CDK9) ameliorates metabolic abnormalities evoked by hypercaloric diet consumption in mice”**. 2<sup>nd</sup> edition “Behavioral and Metabolic Aspects of Obesity And Eating Disorders” – Convegno monotematico dal GdL Obesità, Sindrome Metabolica e Disordini Alimentari della SIF - Camerino, 2024
- Gustavo Ferreira Alves; Porchietto, Elisa; Aimaretti, Eleonora; Hahmeyer, Maria Luísa da Silveira; Einaudi, Giacomo; Rubeo, Chiara; Marzani, Enrica; Collotta, Debora; Ferrero, Eugenia; Mastrocola, Raffaella; Aragno, Manuela; da Silva-Santos, José Eduardo; Fernandes, Daniel; Cifani, Carlo; Collino, Massimo. **Casein kinase II inhibition as a promising pharmacological strategy to mitigate latent and acute inflammation: from metabolic to infectious diseases**. 2<sup>nd</sup> edition “Behavioral and Metabolic Aspects of Obesity And Eating Disorders” – Convegno monotematico dal GdL Obesità, Sindrome Metabolica e Disordini Alimentari della SIF - Camerino, 2024
- Eleonora Aimaretti, Elisa Porchietto, Gustavo Ferreira Alves, Giacomo Einaudi, Debora Collotta, Raffaella Mastrocola, Carlo Cifani, Manuela Aragno, Massimo Collino. **An in vivo study on the potential repurposing of fostamatinib as effective pharmacological strategy for diet-induced metabolic derangements**”, SIF monothematic meeting “Le basi molecolari della farmacologia in ambito cardiometabolico: cross talk tra cuore, vasi e metabolismo”. Parma, 2023
- Gustavo Ferreira Alves, Eleonora Aimaretti, Maria Luísa da Silveira Hahmeyer, Giacomo Einaudi, Elisa Porchietto, Chiara Rubeo, Debora Collotta, Raffaella Mastrocola, Manuela Aragno, Carlo Cifani, José Eduardo da Silva-Santos, Daniel Fernandes, Massimo Collino. **Pharmacological inhibition of CK2 attenuates sepsis-induced cardiovascular dysfunction by reducing NO release**. SIF monothematic meeting “Le basi molecolari della farmacologia in ambito cardiometabolico: cross talk tra cuore, vasi e metabolismo”. Parma, 2023

- Gustavo Ferreira Alves, Ian Stoppa, Eleonora Aimaretti, Chiara Monge, Raffaella Mastrocola, 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, Massimo Collino. **Immune checkpoint modulation with ICOS-Fc attenuates inflammation and multiple organ failure in murine sepsis.** SIF monothematic meeting “From phagocytosis discovery to today: new insights on inflammation”, Messina, 2023
- Eleonora Aimaretti, Presti M, Felicetti F., Godono A., Levis M., Botto B., Cavallo F., Rubeo C., Porchietto E., Cifani C., Arvat M., Collino M., Aragno M. **Hodgkin Lymphoma survivors: role of Advance Glycation End products, inflammation and premature aging** Riunione Scuola Dianzani – Genova 2023
- Elisa Porchietto, Eleonora Aimaretti, Gustavo Ferreira Alves, Giacomo Einaudi, Debora Collotta, Raffaella Mastrocola, Manuela Aragno, Carlo Cifani, Massimo Collino. **Casein Kinase II as pharmacological target for counteracting diet-induced metabolic inflammation in mice.** XXV Conference of Young Sif Pharmacologists, Urbino, 2023
- Gustavo Ferreira Alves, Eleonora Aimaretti, Maria Luísa da Silveira Hahmeyer, Giacomo Einaudi, Elisa Porchietto, Chiara Rubeo, Debora Collotta, Raffaella Mastrocola, Manuela Aragno, Carlo Cifani, José Eduardo da Silva-Santos, Daniel Fernandes, Massimo Collino. **Pharmacological inhibition of casein kinase-2 with silmitasertib attenuates sepsis-induced cardiovascular dysfunction, thus prolonging the survival of septic mice.** XXV Conference of Young Sif Pharmacologists, Urbino, 2023
- Eleonora Aimaretti, Elisa Porchietto, Gustavo Ferreira Alves, Giacomo Einaudi, Debora Collotta, Raffaella Mastrocola, Carlo Cifani, Manuela Aragno, Massimo Collino. **Spleen tyrosine kinase as innovative pharmacological target for counteracting diet-induced metabolic derangements in mice.** XXV Conference of Young Sif Pharmacologists, Urbino, 2023
- Gustavo Ferreira Alves, Eleonora Aimaretti, Maria Luísa da Silveira Hahmeyer, Giacomo Einaudi, Elisa Porchietto, Debora Collotta, Chiara Rubeo, Raffaella Mastrocola, Manuela Aragno, Carlo Cifani, José Eduardo da Silva-Santos, Daniel Fernandes, Massimo Collino. **Silmitasertib protects against cardiovascular dysfunction and reduces mortality of septic mice.** 19th World Congress of Basic and Clinical Pharmacology, Glasgow, 2023.
- Elisa Porchietto, Eleonora Aimaretti, Gustavo Ferreira Alves, Giacomo Einaudi, Chiara Rubeo Debora Collotta, Raffaella Mastrocola, Manuela Aragno, Carlo Cifani, Massimo Collino. **4,5,6,7-tetrabromobenzotriazole (TBB) counteracts metabolic derangements evoked by the consumption of hypercaloric diet in mice.** 19th World Congress of Basic and Clinical Pharmacology, Glasgow, 2023.
- Eleonora Aimaretti, Elisa Porchietto, Gustavo Ferreira Alves, Giacomo Einaudi, Debora Collotta, Chiara Rubeo, Raffaella Mastrocola, Carlo Cifani, Manuela Aragno, Massimo Collino. **Potential repurposing of Fostamatinib in diet-induced metabolic disease: an *in vivo* study.** 19th World Congress of Basic and Clinical Pharmacology, Glasgow, 2023.
- Francesco Felicetti, Eleonora Aimaretti, Federica Dal Bello, Filippo Gatti, Alessandro Godono, Francesca Saba, Giacomo Einaudi, Massimo Collino, Franca Fagioli, Manuela Aragno, Enrico Brignardello. **Advanced glycation end products and their related signalling cascades in adult survivors of childhood Hodgkin lymphoma: A possible role in the onset of late complications.** 27th PanCare Meeting. Turin, 2022

- Gustavo Ferreira Alves Gustavo, Eleonora Aimaretti, Maria Luisa da Silveira Hahmeyer, Giacomo Einaudi, Elisa Porchietto, Chiara Rubeo, Debora Collotta, Carlo Murzio, Raffaella Mastrocola, Manuela Aragno, Carlo Cifani, Jose-Eduardo da Silva-Santos, Daniel Fernandes, Massimo Collino. **Casein Kinase 2 as a new pharmacological target to counteract cardiovascular dysfunction and mortality evoked by sepsis in mice.** *41° Congresso Nazionale della Società Italiana di Farmacologia (SIF), Rome, 2022.*
- Elisa Porchietto, Eleonora Aimaretti, Gustavo Ferreira Alves, Carlo Murzio, Giacomo Einaudi, Debora Collotta, Chiara Rubeo, Raffaella Mastrocola, Manuela Aragno, Carlo Cifani, Massimo Collino. **Pharmacological inhibition of Casein Kinase 2 (CK2) protects against diet-induced metabolic derangements in mice.** *41° Congresso Nazionale della Società Italiana di Farmacologia (SIF), Rome, 2022.*
- Eleonora Aimaretti, Elisa Porchietto, Gustavo Ferreira Alves, Carlo Murzio, Debora Collotta, Chiara Rubeo, Giacomo Einaudi, Raffaella Mastrocola, Carlo Cifani, Manuela Aragno, Massimo Collino. **Potential repurposing of fostamatinib in diet-induced metabolic disease: an in vivo study.** *41° Congresso Nazionale della Società Italiana di Farmacologia (SIF), Rome, 2022.*
- Eleonora Aimaretti, Elisa Porchietto, Gustavo Ferreira Alves, Raffaella Mastrocola, Alessandro Algeri, Chiara Rubeo, Giacomo Einaudi, Debora Collotta, Carlo Cifani, Manuela Aragno and Massimo Collino. **The potential role of a novel nutraceutical approach in counteracting Advanced Glycation End products harmful effects in a murine model of metabolic derangement.** *41° Congresso Nazionale della Società Italiana di Farmacologia (SIF), Rome, 2022.*
- Eleonora Aimaretti, Francesco Felicetti, Federica Dal Bello, Filippo Gatti, Maurizio Cassader, Giacomo Einaudi, Franca Fagioli, Manuela Aragno, Massimo Collino, Enrico Brignardello. **Role of advanced glycation end products (AGEs) in evoking systemic chronic inflammation in adult Hodgkin lymphoma survivors.** *15th World Congress on Inflammation (WCI), Rome, 2022.*
- Chiara Rubeo, Gustavo Ferreira Alves, Eleonora Aimaretti, Maria Luisa Hahmeyer da Silveira, Giacomo Einaudi, Elisa Porchietto, Debora Collotta, Carlo Murzio, Raffaella Mastrocola, Manuela Aragno, Carlo Cifani, Jose-Eduardo Da Silva-Santos, Daniela Fernandes, Massimo Collino. **Casein Kinase 2 as new pharmacological target to counteract cardiovascular dysfunction and mortality evoked by sepsis in mice.** *15th World Congress on Inflammation (WCI), Rome, 2022.*

## **LABORATORY SKILLS**

### **In vivo experiments**

Manipulation of rodents: handling of both mice and rats, drug administration, oral gavage, evaluation of animal's metabolic profile (oGTT and ipGTT, ITT), use of metabolic cages, collection of blood and different organs/tissues (liver, kidneys, heart, gastrocnemius muscle, small intestine, fat pads, spleen, lungs) also after reperfusion of tissues. Performance of behavioral and locomotor tests on laboratory animals (open field, T maze, Elevated Plus Maze, CAR, Morris Water Maze, Rotarod). Basic knowledge of several invasive procedures: middle cerebral artery occlusion, cecal ligation and puncture, intrathecal administration.

### **Molecular Biology**

Immunohistochemistry and immunofluorescence, Western blotting, DNA-RNA-protein extraction from tissue and cells, qRT-PCR, ELISA, UV-Vis spectrophotometry, enzymatic assays, use of optical, fluorescence and confocal microscopy, image analysis.

### **Statistical analysis**

Performance and rigorous analysis of data sets with GraphPad prism and R.

**Software**

Advance proficiency of Office (Excel, Word, Power Point, Publisher), GraphPad Prism, ImageLab and Ethovision.

**Additional professional skills**

Supervision of master's students in practical and theoretical thesis writing; adaptability to work alone and in a group developed through several experiences in different laboratories in Italy and abroad.

**ADDITIONAL INFORMATION**

- Professional qualification to practice as a professional pharmacist (2020)

**CERTIFICATES**

- Authorisation to conduct experiments on rabbits and rodents - Ben Gurion University of the Negev  
Authorization number: **BGU-S-1088-2019**
- IZSLER Certificates recognized by the Italian Ministry of Health
  - Legislazione nazionale ed etica livello 1
  - Biologia e gestione degli animali da laboratorio
  - Etica e concezione dei progetti