

Fausto Chiazza

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GENERAL INFORMATION

Department of Pharmaceutical Sciences, University of Eastern Piedmont
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SCIENTIFIC METRIC OVERVIEW

From Scopus (update June 2025)**:**
Documents by author:
54
Citations:
1009 by 1740 documents
h-Index:
29
Complete List of Publications
https://www.scopus.com/authid/detail.uri?authorId=55793213400
Scopus ID
55793213400
ORCID ID
0000-0001-7273-0051
Web of Science Researcher ID
I-5559-2015

PROFESSIONAL EXPERIENCE

06/2025 – Present
Department of Pharmaceutical Sciences, University of Eastern Piedmont | NOVARA, NO
Associate Professor
(Professore associato, con regime di impegno a tempo pieno, nel Settore concorsuale 05/G1 FARMACOLOGIA, FARMACOLOGIA CLINICA E FARMACOGNOSIA e S.S.D.
BIO/14 FARMACOLOGIA).

06/2022 – 05/2025
Department of Pharmaceutical Sciences, University of Eastern Piedmont | NOVARA, NO
Researcher type B
(Ricercatore a tempo determinato, con regime di impegno a tempo pieno, ai sensi dell'art. 24 comma 3 lettera B Legge 240/2010 nel Settore concorsuale 05/G1 FARMACOLOGIA, FARMACOLOGIA CLINICA E FARMACOGNOSIA e S.S.D. BIO/14 FARMACOLOGIA).

05/2019 – 04/2022
Department of Pharmaceutical Sciences, University of Eastern Piedmont | NOVARA, NO
Researcher type A
(Ricercatore a tempo determinato, con regime di impegno a tempo pieno, ai sensi dell'art. 24 comma 3 lettera A Legge 240/2010 nel Settore concorsuale 05/G1 FARMACOLOGIA, FARMACOLOGIA CLINICA E FARMACOGNOSIA e S.S.D. BIO/14 FARMACOLOGIA).
My research was carried out in the Laboratory of Neuroplasticity (P.I. Prof.ssa Mariagrazia Grilli), and focused on how changes in an individual's nutrition (which may or may not lead to metabolic diseases) can affect hippocampal neuroplasticity in adolescence.

04/2019 - 04/2019
Department of Pharmaceutical Sciences, University of Eastern Piedmont | Novara, NO
Scholarship Holder
(Borsa di studio per addestramento e perfezionamento alla ricerca post dottorato).
Project title: “Effetti del diabete e della obesità sulla neuroplasticità” .
This project was carried out in the Laboratory of Neuroplasticicty (P.I. Prof.ssa Mariagrazia Grilli)

04/2018 - 03/2019
Department of Drug Science and Technology, University of Turin | Torino, TO
Post Doc Researcher

(assegno di ricerca conferito ai sensi dell'art. 22, Legge 30/12/2010, n. 240).
Project title: " AGEs as novel biomarkers in evaluation of risk factors in diet-related diseases."
This Post Doc training was funded by the european Project “Innovative Technological Approaches for validation of Salivary AGEs as novel biomarkers in evaluation of risk factors for diet-related diseases”, ERA-HDHL Transnational Call "Biomarkers for Nutrition and Health", 2017-2020.
My research was carried out in the Laboratory of Prof. Massimo Collino.
I primarily focused on characterizing the molecular basis of cardio-metabolic diseases, concentrating on inflammatory pathways and on the identification of mediators of inter-organ communication in these settings (e.g. Advanced Glycation end products, AGEs). The following step was to estabish how these pathways could be pharmacologically modulated for the prevention/management of the health consequences of metabolic related inflammation (“metaflammation”), as a key driver of metabolic disorders and related cardiovascular co-morbidities.

11/2017 - 03/2018
Department of Clinical Science and Education, Södersjukhuset (SÖS), Karolinska Institutet | Stockholm, Sweden
Post Doc Researcher
My research was carried out in the Laboratory of Prof. Cesare Partone.
This Post Doc training was funded through a collaborative effort between Prof. Patrone research group and Boeringher Ing. Pharma (Germany).
My research mainly aimed at elucidating the mechanism of action of DPP-4 inhibitors against stroke in diabetes.
Furthermore I studied Somatostatin expressing interneurons role in the post-stroke phase, how these cells could be related to neurological recovery and how type 2 diabetes could influence their number. Data for this study were produced taking advantage of a new and precise method for cell counting in the stroke-damaged striatum that allows to reveal accurate, area-related effects of stroke on cell number.

07/2017 - 10/2017
Department of Clinical Science and Education, Södersjukhuset (SÖS), Karolinska Institutet | Stockholm, Sweden
Visiting Post Doc Researcher
My research was carried out in the Laboratory of Prof. Cesare Partone.
This Post Doc training was funded by an Albert Reinolds Travel Fellowship (European Foundation for the study of Diabetes, EFSD).
My research mainly aimed at elucidating the mechanism of action of DPP-4 inhibitors against stroke in diabetes.

02/2017 - 03/2017
Department of Drug Science and Technology, University of Turin | Torino, TO
Scholarship Holder
Project title: "New pharmacological approaches for cardiometabolic injury: preliminary study of protective effects of new inhibitors of NLRP3 inflammasome in a cardiac ischemic injury model".
My research was carried out in the laboratory of Prof. Massimo Collino.
In this project my contribution was to understand the role of NLRP3 inflammasome and of its pharmacological inhibition in an ex-vivo model of myocardial ischemia-reperfusion

04/2016 - 11/2016
Department of Drug Science and Technology, University of Turin | Torino, TO
Scholarship Holder
Project Title: "Scaffale Patologie Croniche".
This project was carried out in the laboratory of Prof. Massimo Collino

08/2014 - 02/2015
Children Hospital | Zurich, Switzerland
Visiting PhD student
My reasearch was carried out in the laboratory of Diabetology and Endocrinology (P.I. Prof. Daniel Konrad).
In this experience I studied the long-lasting effects on hepatic lipid accumulation and glucose tolerance of a short period of High fat diet supply in mice.

DIDACTIC ACTIVITY

- A.A. 2024-2025: Teacher (Docente) in " Farmacologia, farmacoterapia e chemioterapia" (FA0018). SSD BIO/14 - FARMACOLOGIA, 40h, 5 CFU, 4th year of Pharmacy degree (Corso di Laurea a ciclo unico in Farmacia), Department of Pharmaceutical Sciences, University of Eastern Piedmont, Novara
- A.A. 2024-2025: Teacher (Docente) in " Farmacologia generale e farmacologia molecolare" (FA0027). SSD BIO/14 - FARMACOLOGIA, 80h, 10 CFU, 3rd year of Pharmaceutical Chemistry and Technology degree (Corso di Laurea a ciclo unico in Chimica e Tecnologia Farmaceutiche), Department of Pharmaceutical Sciences, University of Eastern Piedmont, Novara
- A.A. 2024-2025: Teacher (Docente) in " Medicinal Chemistry and pharmacology of dermatologicàl drugs (FA0526) Modulo: Pharmacology of dermatological drugs" (FA0525). SSD BIO/14 - FARMACOLOGIA, 6h, 1 CFU, European Master on Translational Cosmetic and Dermatological Sciences , Department of Pharmaceutical Sciences, University of Eastern Piedmont, Novara
- A.A. 2023-2024: Teacher (Docente) in " Farmacologia generale e farmacologia molecolare" (FA0027). SSD BIO/14 - FARMACOLOGIA, 80h, 10 CFU, 3rd year of Pharmaceutical Chemistry and Technology degree (Corso di Laurea a ciclo unico in Chimica e Tecnologia Farmaceutiche), Department of Pharmaceutical Sciences, University of Eastern Piedmont, Novara
- A.A. 2023-2024: Teacher (Docente) in "The pillars of drug discovery and development (II)" (FA0265) modulo: "The pillars of drug discovery and development (II) - A" (FA0262). SSD BIO/14 - FARMACOLOGIA, 6h, 1 CFU, European Master on Translational Cosmetic and Dermatological Sciences , Department of Pharmaceutical Sciences, University of Eastern Piedmont, Novara
- A.A. 2023-2024: Teacher (Docente) in "Drug discovery e development: dal target molecolare agli studi clinici" (FA0095). SSD BIO/14 - FARMACOLOGIA, 24h, 3 CFU, 4th year of Pharmaceutical Chemistry and Technology degree (Corso di Laurea a ciclo unico in Chimica e Tecnologia Farmaceutiche), Department of Pharmaceutical Sciences, University of Eastern Piedmont, Novara
- A.A. 2022-2023: Teacher (Docente) in " Farmacologia generale e farmacologia molecolare" (FA0027). SSD BIO/14 - FARMACOLOGIA, 40h, 5 CFU, 3rd year of Pharmaceutical Chemistry and Technology degree (Corso di Laurea a ciclo unico in Chimica e Tecnologia Farmaceutiche), Department of Pharmaceutical Sciences, University of Eastern Piedmont, Novara

- A.A. 2022-2023: Teacher (Docente) in "The pillars of drug discovery and development (II)" (FA0265) modulo: "The pillars of drug discovery and development (II) - A" (FA0262). SSD BIO/14 - FARMACOLOGIA, 6h, 1 CFU, European Master on Translational Cosmetic and Dermatological Sciences , Department of Pharmaceutical Sciences, University of Eastern Piedmont, Novara
- A.A. 2022-2023: Teacher (Docente) in "Drug discovery e development: dal target molecolare agli studi clinici" (FA0095). SSD BIO/14 - FARMACOLOGIA, 40h, 5 CFU, 4th year of Pharmaceutical Chemistry and Technology degree (Corso di Laurea a ciclo unico in Chimica e Tecnologia Farmaceutiche), Department of Pharmaceutical Sciences, University of Eastern Piedmont, Novara
- A.A. 2021-2022: Teacher (Docente) in "Drug discovery e development: dal target molecolare agli studi clinici" (FA0095). SSD BIO/14 - FARMACOLOGIA, 40h, 5 CFU, 4th year of Pharmaceutical Chemistry and Technology degree (Corso di Laurea a ciclo unico in Chimica e Tecnologia Farmaceutiche), Department of Pharmaceutical Sciences, University of Eastern Piedmont, Novara
- A.A. 2021-2022: Teacher (Docente) in "The pillars of drug discovery and development (II)" (FA0265) modulo: "The pillars of drug discovery and development (II) - A" (FA0262). SSD BIO/14 - FARMACOLOGIA, 6h, 1 CFU, European Master on Translational Cosmetic and Dermatological Sciences , Department of Pharmaceutical Sciences, University of Eastern Piedmont, Novara
- A.A. 2020-2021: Teacher (Docente) in "Drug discovery e development: dal target molecolare agli studi clinici" (FA0095). SSD BIO/14 - FARMACOLOGIA, 16h, 2 CFU, 4th year of Pharmaceutical Chemistry and Technology degree (Corso di Laurea a ciclo unico in Chimica e Tecnologia Farmaceutiche), Department of Pharmaceutical Sciences, University of Eastern Piedmont, Novara
- A.A. 2020-2021: Teacher (Docente) in "The pillars of drug discovery and development (II)" (FA0265) modulo: "The pillars of drug discovery and development (II) - A" (FA0262). SSD BIO/14 - FARMACOLOGIA, 6h, 1 CFU, European Master on Translational Cosmetic and Dermatological Sciences , Department of Pharmaceutical Sciences, University of Eastern Piedmont, Novara
- A.A. 2020-2021: Teacher (Docente) in "Farmaci biotecnologici e vaccini: dal disegno alla commercializzazione" (FA0306) modulo: "Ricerca e sviluppo: aspetti farmacologici" (FA0307). SSD BIO/14 - FARMACOLOGIA, 8h, 1 CFU, Course of Pharmaceutical Biotechnologies (Biotecnologie Farmaceutiche) , Department of Pharmaceutical Sciences, University of Eastern Piedmont, Novara
- A.A. 2019-2020: Teacher (Docente) in "Drug discovery e development: dal target molecolare agli studi clinici" (FA0095). SSD BIO/14 - FARMACOLOGIA, 16h, 2 CFU, 4th year of Pharmaceutical Chemistry and Technology degree (Corso di Laurea a ciclo unico in Chimica e Tecnologia Farmaceutiche), Department of Pharmaceutical Sciences, University of Eastern Piedmont, Novara
- November 2017- March 2019: Teaching Fellow (Assistenza alla didattica) in Pharmacology I (MED3034D) and Pharmacology II (SSP0378B) in Nursing Degree, (Corso di Laurea in Infermieristica - A.O.U. Città della Salute e della Scienza di Torino, University of Turin. Professor of the course: Dott. Arianna Carolina Rosa

EDUCATION AND INSTRUCTION

02/2016
University of Turin | Torino
PhD (Dottore di Ricerca): 'Pharmaceutical and Biomolecular Sciences', School of Science of nature and innovative technologies
Project title: "Development of original experimental models of “diabesity” to identify innovative therapeutic targets".
My research was carried out in the Laboratory of Prof. Massimo Collino at Department of Drug Science and Technology between January 2013 and February 2016.
Final PhD thesis defense: February 26th 2016. Examining board: Prof. R. Fantozzi (University of Turin, Italy), Prof. D. Konrad (University of Zurich, Switzerland), Prof. B.F. Gibbs (University of Kent, UK)
My PhD thesis work was focused on the development of an original model of metabolic damage induced by prolonged exposure of mice to high doses of high-fructose corn syrup (HFCS). This experimental model was used to characterize the protective effects induced by chronic administration of a selective agonist of the PPAR receptors; this study assessed the inflammatory processes that underlie the development of insulin resistance. Particular attention was placed on the effects of modulating the protein complex NLRP3 inflammasome in the context of the development of metabolic damage. I also contributed to identifying the protective effects induced by acute administration of the peptide hormone relaxin, in rats subjected to ischemia / reperfusion renal failure.

10/2012
University of Turin | Torino
Master Degree: Pharmaceutical Chemistry and Technology (Chimica e tecnologia Farmaceutiche)
Final mark: 110/110 with honors and thesis mention
My studies were carried out at the Department of Drug Science and Technology, University of Turin between October 2007 and October 2012.
Experimental Thesis Title “Study of the protective effects of a new derivative of erythropoietin without erythropoietic activity in an animal model of renal ischemia / reperfusion”; supervisor Prof. Massimo Collino

07/2007
High School Marie Curie | Pinerolo (TO)
Diploma: Scientific High School
Final Mark: 90/100

LABORATORY SKILLS

Excellent skills with manipulation of rodents: handling of animals, drug administration, oral gavage, evaluation of animal's metabolic profile (oGTT, ipGTT, ITT), use of metabolic cages, collection of blood and different organs/tissues (liver, kidneys, heart, gastrocnemius muscle, small intestine, fat pads [epididimal, inguinal, mesenteric, interscapular, retroperitoneal], spleen, lungs, salivary glands), and intracardiac body perfusion.
I am particularly specialized in mouse brain dissection: I can isolate Substantia nigra (compacta and reticulata), Ventral Tegmental Area, Hippocampus (dorsal and ventral), Cortex (prefrontal, piriform and entorhinal), Olfactory bulbs, Hypothalamus, Striatum (Caudato putamen and Globus Pallidus), Cerebellum.

My Lab bench skills include: immunohistochemistry and immunofluorescence, Western blotting, DNA-RNA-protein extraction from tissue and cells, PCR and q-PCR, ELISA, UV-Vis spectrophotometry, enzymatic assays, use of optical, fluorescence and confocal microscopy, image analysis, use of stereology for cell counting, use of Sholl analysis to study cell morphology, in vivo µCT analysis.

LANGUAGE

Italiano: Madrelingua

Inglese: C1

Avanzato

SOFT SKILLS

I am an academic researcher with a strong motivation for experimentation and investigation in the field of pharmacology. Precise, prepared and organized, I have a good knowledge in the pharmacological field and solid skills in the elaboration, in the management of research projects and in the implementation of new tools for analyzing data and planning the various research phases in a detailed and precise manner. In my research experience I had the opportunity to work independently or in a team, having the possibility to establish scientific collaborations both at national and international level.
In teaching, I pay attention to the involvement of students, who can count on solid skills in the definition of study contents and in the management of online and class courses.

AFFILIATIONS

- Member of the Early Career Researcher group of The Federation of European Pharmacological Societies (EPHAR).
- Member of the Italian Society of Pharmacology (SIF)
- Member of the European Respiratory Society (ERS)
- Member of the British Pharmacological Society
- Member of the European Association for the Study of Diabetes (EASD)
- Member of the Italian Society of Cardiovascular Research
- Member of the International Society for Heart Research

HONORS, GRANTS AND AWARDS

-
- Collaborator to the project of San Paolo company IV cut-off – PoC Instrument Line 1 PoC Launchpad. Title: "Sonda diretta all'enzima ALDH1A3 per il rilevamento precoce di cellule cancerose staminali nelle biopsie dei pazienti per un intervento terapeutico e/o chirurgico tempestivo e di precisione" (Euro 50.000) in collaboration with Prof. Silvia Garàvàglia and Prof. Alberto Minassi. Position Held leader of biology unit
- B4S. (Brescia for Science) award, Best Poster in SINS Italian National Congress 2021 (500€)
- Principal Investigator in Fondi di ricerca FAR 2017 (Department of Drug Science, University of Eastern Piedmont, Novara, Italy) 2019 (40000€)

- Collaborator in the European Project “Innovative Technological Approaches for validation of Salivary AGEs as novel biomarkers in evaluation of risk factors for diet-related diseases”, ERA-HDHL Transnational Call "Biomarkers for Nutrition and Health", 2017-2020.
- SIRC Travel Fellowship (SIRC Forum 2018) (500€)
- Albert Renold Travel Fellowship (EFSD) 2017 (7000€)
- Collaborators Award for "SIF farmaci in evidenza" 2017 (1500€)
- SIF-Farmindustria 2016 award (5000€)
- Collaborators Award for "SIF farmaci in evidenza" 2016 (1500€)
- Best Oral Comunication (37° National Congress of SIF) 2015 (500€)
- Collaborators Award for "SIF farmaci in evidenza" 2015 (1500€)
- Contributi MIUR per la mobilità internazionale A.A. 2013-2014 (330,75€)
- Fondazione Fondo Ricerca e Talenti: Erogazione di contributi per l'organizzazione di incontri a carattere scientifico/divulgativo, 2014 (3800€)

COURSES AND CERTIFICATIONS

- IBRO-PERC Support for Soft Skills Training, Course on Grant Writing organized by NICO (University of Turin), December 2021
- LTK-1 FELASA Certificate: Introductory course in laboratory Animal Science, August 2014

ADDITIONAL INFORMATION

- ASN abilitation as II tier professor in SSD 05/G1 (BIO/14)
- Guest Editor in Frontiers in Immunology 2023 to present
- Guest Editor for the international Journal "Frontiers in Neuroscience" (2022 to present). Research Topic “Nutritional Modulation of Central Nervous System Development, Maintenance, Plasticity, and Recovery” [ID: 48542]
- Reviewer for the international Journal "Frontiers in Immunology" (2018 to present)
- Organizer of the "Incontriamo il vostro Futuro" initiative at the Department of Pharmaceutical Sciences, University of Eastern Piedmont (https://www.dsf.uniupo.it/servizi/orientamento/incontriamo-il-vostro-futuro)
- External Expert for the European Medicines Agency (EMA) and the Agenzia Italiana del Farmaco (AIFA) per the authorization of new therapies
- Author for “SIF, farmaci in evidenza” on the on-line newsletter published by the Italian Society of Pharmacology (http://www.sifweb.org) (More than 50 short articles drafted) (2014 - 2019)
- Qualification to practice as a professional pharmacist (Esame di stato per la professione di Farmacista) (Mark 342/400) (December 2012)

LIST OF PUBLICATIONS IN EXTENSO

- Ragnoli B, **Chiazza F**, Tarsi G, Malerba M; Biologicàl pàthwàys ànd mechànisms linking COPD ànd càrdiovàsculàr diseàse. *Ther Adv Chronic Dis,* 2024. Accepted for Publication **I.F. 3.8**;
- Bertocchi I, Turroni S, **Chiazza F**; Editorial: Nutritional modulation of central nervous system development, maintenance, plasticity, and recovery. *Front Neurosci*. 2023, 17:17:1332191. doi: 10.3389/fnins.2023.1332191**. I.F. 3.2**

- Pinton G, Perucca M, Gigliotti V, Mantovani E, Clemente N, Malecka J, Chrostek G, Dematteis G, Lim D, Moro L, **Chiazza F**; EZH2-Mediàted H3K27 Trimethylation in the Liver of Mice Is an Eàrly Epigenetic Event Induced by High-Fat Diet Exposure. *Nutrients*. 2024, 26;16(19):3260. doi: 10.3390/nu16193260**. I.F. 4.8**
- Bondi H, **Chiazza F**, Masante I, Bortolotto V, Canonico PL, Grilli M. Heterogenous response to aging of astrocytes in murine Substantia Nigra pars compacta and pars reticulata. *Neurobiol Aging*. 2023 Mar;123:23-34. doi: 10.1016/j.neurobiolaging.2022.12.010. **IF. 5.133**
- **Chiazza F**, Bondi H, Masante I, Ugazio F, Bortolotto V, Canonico PL, Grilli M. Short high fat diet triggers reversible and region specific effects in DCX+ hippocampal immature neurons of adolescent male mice. *Sci Rep*. 2021 Nov 2;11(1):21499. doi: 10.1038/s41598-021-01059-y.PMID: 34728755 **IF. 4.380**
- Wouters K, Cento AS, Gaens KH, Teunissen M, Scheijen JLJM, Barutta F, **Chiazza F**, Collotta D, Aragno M, Gruden G, Collino M, Schalkwijk CG, Mastrocola R. Deletion of RAGE fails to prevent hepatosteatosis in obese mice due to impairment of other AGEs receptors and detoxifying systems. *Sci Rep*. 2021 Aug 30;11(1):17373. doi: 10.1038/s41598-021-96859-7. PMID: 34462492 **IF. 4.380**
- Penna C, Aragno M, Cento AS, Femminò S, Russo I, Bello FD, **Chiazza F**, Collotta D, Alves GF, Bertinaria M, Zicola E, Mercurio V, Medana C, Collino M, Pagliaro P. Ticagrelor Conditioning Effects Are Not Additive to Cardioprotection Induced by Direct NLRP3 Inflammasome Inhibition: Role of RISK, NLRP3, and Redox Cascades. *Oxid Med Cell Longev.* 2020 Aug 3;2020:9219825. doi: 10.1155/2020/9219825. eCollection 2020. PMID: 32832010 **IF. 6.543**
- Mastrocola R, Collotta D, Gaudioso G, Le Berre M, Cento AS, Ferreira Alves G, **Chiazza F**, Verta R, Bertocchi I, Manig F, Hellwig M, Fava F, Cifani C, Aragno M, Henle T, Joshi L, Tuohy K, Collino M. Effects of Exogenous Dietary Advanced Glycation End Products on the Cross-Talk Mechanisms Linking Microbiota to Metabolic Inflammation. *Nutrients*. 2020 Aug 19;12(9):2497. doi: 10.3390/nu12092497. PMID: 32824970 **IF. 5.719**
- Purvis GSD, Collino M, Aranda-Tavio H, **Chiazza F**, O'Riordan CE, Zeboudj L, Mohammad S, Collotta D, Verta R, Guisot NES, Bunyard P, Yaqoob MM, Greaves DR, Thiemermann C. Inhibition of Bruton's TK regulates macrophage NF-κB and NLRP3 inflammasome activation in metabolic inflammation. *Br J Pharmacol*. 2020 Oct;177(19):4416-4432. doi: 10.1111/bph.15182. Epub 2020 Aug 26. PMID: 32608058 **IF. 8.740**
- **Chiazza F**, Pintana H, Lietzau G, Nyström T, Patrone C, Darsalia V. The Stroke-Induced Increase of Somatostatin-Expressing Neurons is Inhibited by Diabetes: A Potential Mechanism at the Basis of Impaired Stroke Recovery. *Cell Mol Neurobiol*. 2021 Apr;41(3):591-603. doi: 10.1007/s10571-020-00874-7. Epub 2020 May 23. PMID: 32447613 **IF. 5.046**
- Collotta D, Hull W, Mastrocola R, **Chiazza F**, Cento AS, Murphy C, Verta R, Alves GF, Gaudioso G, Fava F, Yaqoob M, Aragno M, Tuohy K, Thiemermann C, Collino M. Baricitinib counteracts metaflammation, thus protecting against diet-induced metabolic abnormalities in mice. *Mol Metab*. 2020 Sep;39:101009. doi: 10.1016/j.molmet.2020.101009. Epub 2020 May 13. PMID: 32413585 **IF. 7.422**
- Zechendorf E, O'Riordan CE, Stiehler L, Wischmeyer N, **Chiazza F**, Collotta D, Denecke B, Ernst S, Müller-Newen G, Coldewey SM, Wissuwa B, Collino M, Simon TP, Schuerholz T, Stoppe C, Marx G, Thiemermann C, Martin L. Ribonuclease 1 attenuates septic cardiomyopathy and cardiac apoptosis in a murine model of polymicrobial sepsis. *JCI Insight*. 2020 Apr 23;5(8):e131571. doi: 10.1172/jci.insight.131571.PMID: 32213712 **IF. 8.315**

- O'Riordan CE, Purvis GSD, Collotta D, **Chiazza F**, Wissuwa B, Al Zoubi S, Stiehler L, Martin L, Coldewey SM, Collino M, Thiemermann C. Bruton's Tyrosine Kinase Inhibition Attenuates the Cardiac Dysfunction Caused by Cecal Ligation and Puncture in Mice. *Front Immunol*. 2019 Sep 6;10:2129. doi: 10.3389/fimmu.2019.02129. eCollection 2019. PMID: 31552054 **IF. 7.561**
- Pintana H, Lietzau G, Augestad IL, **Chiazza F**, Nyström T, Patrone C, Darsalia V. Obesity-induced type 2 diabetes impairs neurological recovery after stroke in correlation with decreased neurogenesis and persistent atrophy of parvalbumin-positive interneurons. *Clin Sci (Lond)*. 2019 Jul 1;133(13):1367-1386. doi: 10.1042/CS20190180. Print 2019 Jul 15. PMID: 31235555 **IF. 6.124**
- Sordi R, **Chiazza F**, Collotta D, Migliaretti G, Colas RA, Vulliamy P, Brohi K, Dalli J, Collino M, Thiemermann C. Resolvin D1 Attenuates the Organ Injury Associated With Experimental Hemorrhagic Shock. *Ann Surg.* 2021 May 1;273(5):1012-1021. doi: 10.1097/SLA.0000000000003407. PMID: 31188196 **IF. 12.969**
- Purvis GSD, Collino M, Loiola RA, Baragetti A, **Chiazza F**, Brovelli M, Sheikh MH, Collotta D, Cento A, Mastrocola R, Aragno M, Cutrin JC, Reutelingsperger C, Grigore L, Catapano AL, Yaqoob MM, Norata GD, Solito E, Thiemermann C. Identification of AnnexinA1 as an Endogenous Regulator of RhoA, and Its Role in the Pathophysiology and Experimental Therapy of Type-2 Diabetes. *Front Immunol*. 2019 Mar 27;10:571. doi: 10.3389/fimmu.2019.00571. eCollection 2019. PMID: 30972066 **IF. 7.561**
- Al Zoubi S, Chen J, Murphy C, Martin L, **Chiazza F**, Collotta D, Yaqoob MM, Collino M, Thiemermann C. Linagliptin Attenuates the Cardiac Dysfunction Associated With Experimental Sepsis in Mice With Pre-existing Type 2 Diabetes by Inhibiting NF-κB. *Front Immunol*. 2018 Dec 18;9:2996. doi: 10.3389/fimmu.2018.02996. eCollection 2018. PMID: 30619349 **IF. 7.561**
- Collotta D, Lucarini L, **Chiazza F**, Cento AS, Durante M, Sgambellone S, Chini J, Baratta F, Aragno M, Mastrocola R, Masini E, Collino M. Reduced Susceptibility to Sugar-Induced Metabolic Derangements and Impairments of Myocardial Redox Signaling in Mice Chronically Fed with D-Tagatose when Compared to Fructose. *Oxid Med Cell Longev*. 2018 Sep 19;2018:5042428. doi: 10.1155/2018/5042428. eCollection 2018.PMID: 30327714 **IF. 6.543**
- Aswani A, Manson J, Itagaki K, **Chiazza F**, Collino M, Wupeng WL, Chan TK, Wong WSF, Hauser CJ, Thiemermann C, Brohi K. Scavenging Circulating Mitochondrial DNA as a Potential Therapeutic Option for Multiple Organ Dysfunction in Trauma Hemorrhage. *Front Immunol.* 2018 May 8;9:891. doi: 10.3389/fimmu.2018.00891. eCollection 2018. PMID: 29867926 **IF. 7.561**
- **Chiazza F**, Tammen H, Pintana H, Lietzau G, Collino M, Nyström T, Klein T, Darsalia V, Patrone C. The effect of DPP-4 inhibition to improve functional outcome after stroke is mediated by the SDF-1α/CXCR4 pathway. *Cardiovasc Diabetol*. 2018 May 19;17(1):60. doi: 10.1186/s12933-018-0702-3. PMID: 29776406 **IF. 9.951**
- Mastrocola R, Ferrocino I, Liberto E, **Chiazza F**, Cento AS, Collotta D, Querio G, Nigro D, Bitonto V, Cutrin JC, Rantsiou K, Durante M, Masini E, Aragno M, Cordero C, Cocolin L, Collino M. Fructose liquid and solid formulations differently affect gut integrity, microbiota composition and related liver toxicity: a comparative in vivo study. *J Nutr Biochem*. 2018 May;55:185-199. doi: 10.1016/j.jnutbio.2018.02.003. Epub 2018 Feb 13. PMID: 29539590 **IF. 6.048**
- Bressanello D, Liberto E, Collino M, **Chiazza F**, Mastrocola R, Reichenbach SE, Bicchi C, Cordero C. Combined untargeted and targeted fingerprinting by comprehensive two-dimensional gas chromatography: revealing fructose-induced changes in mice urinary metabolic signatures. *Anal Bioanal Chem*.

2018 Apr;410(11):2723-2737. doi: 10.1007/s00216-018-0950-9. Epub 2018 Mar 7. PMID: 29516133 **IF. 4.157**

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- Benetti E, **Chiazza F**, Patel NS, Collino M. The NLRP3 Inflammasome as a novel player of the intercellular crosstalk in metabolic disorders. *Mediators Inflamm*. 2013;2013:678627. doi: 10.1155/2013/678627. Epub 2013 Jun 13. PMID: 23843683 **IF. 4.711**

ORAL COMMUNICATIONS PRESENTED IN CONGRESSES

- Chiazza F., *Novel insight in Inflammation and the link to Cardio-Cerebrovascular Diseases.* Invited Speaker in the symposium: *Novel mechanisms, atypical drugs and cell-based therapies for the treatment of inflammatory and autoimmune diseases* . **41st Congress of the Italian Society of Pharmacology**. Rome, 16th-19th November 2022
- Chiazza F., Bondi H., Masante I., Ugazio F., Bortolotto V., Canonico P.L., Grilli M. (2021). *Brief changes in nutritional lifestyle can trigger reversible region- and age-specific effects in DCX+ hippocampal neuroblasts in mice.* **19th Congress of the Italian Society for Neuroscience**, Brescia (Online), 9th-11th September 2021
- Chiazza F., Ugazio F., Bondi H., Bortolotto V., Canonico P.L., Grilli M. (2021). *High fat diet induces very rapid, age- and regional-specific changes in adult-born hippocampal neuroblasts*. **40th Congress of the Italian Society of Pharmacology**. Online, 9th-13th March 2021

- Chiazza F., Femminò S., Collotta D., ZicolaE., Aragno M., Bertinaria M., Pagliaro P., Penna C., Collino M. (2019) *Do P2Y12 receptor antagonism and NLRP3 inhibition exert additive cardioprotective effects against ischemia/reperfusion injury?* **39th Congress of the Italian Society of Pharmacology**. Firenze, Italy, 20th-23rd November 2019
- Chiazza F., Pintana H., Tammen H., Lietzau G., Collino M., Nyström T., Klein T., Darsalia V, Patrone C. (2018). *The effect of the DPP-4 inhibitor linagliptin to improve functional outcome after stroke is mediated by the CXCR4/SDF-1α pathway*. **MORE THAN NEURONS: toward a less neuronocentric view of brain disorders; II edition**. TORINO, ITALY NOVEMBER 29TH - DECEMBER 1ST, 2018
- Chiazza F., Pintana H., Tammen H., Lietzau G., Nyström T., Klein T., Collino M., Darsalia V., Patrone C. (2018). *The effect of the DPP-4 inhibitor linagliptin to improve functional outcome after stroke is mediated by the CXCR4/SDF-1α pathway*. **SIRC Forum 2018**, Rome October 6 2018
- Chiazza F., Tammen H., Pintana H., Lietzau G., Collino M., Nyström T., Klein T., Darsalia V., Patrone C. (2018). *The effect of the DPP-4 inhibitor Linagliptin to improve functional outcome after stroke is mediated by the CXCR4/SDF-1α pathway*. **XXI SIF seminar on pharmacology for phd students, fellows, post doc and specialist trainees**. Zambon, Bresso (Mi), Italy September 19-22, 2018
- Chiazza F., Purvis G.S., Chen J., Martin L., Collotta D., Mastrocola R., Nigro D., Aragno M., Cutrin J.C., Yaqoob M.M., Fantozzi R., Solito E., Thiemermann C., Collino M. (2017). *The anti-inflammatory protein Annexin A1 as new pharmacological approach to counteract the deleterious effects of diet-induced metabolic derangements.* **38th Congress of the Italian Society of Pharmacology**. Rimini, Italy, 25th-28th October 2017
- Chiazza F., Mastrocola R., Benetti E., Couturier-Maillard A., Nigro D., Cocco M., Cutrin J.C., Bertinaria M., Penna C., Pagliaro P., Ryffel B., Thiemermann C., Aragno M., Fantozzi R., Collino M. (2016). *The role of NLRP3 inflammasome as pharmacological target in in vivo models of diabesity and related myocardial ischemic injury*. **XIX National Seminar on Pharmacology and Similar Sciences for PhD Students, Fellows, Post Doc and Specialist Trainees**. Rimini, 20-22 September 2016
- Chiazza F., Benetti E., Mastrocola M., Nigro D., Rogazzo M., Cutrin J.C., D'Antona G., Aragno M., Minetto M.A., Thiemermann C., Fantozzi R., Collino M. (2015). *Protective effects of a PPAR-δ agonist and a non-erythropoietic peptide derivative of erythropoietin against the diet-induced development of skeletal muscle insulin resistance and inflammation in mice*. **37th Congress of the Italian Society of Pharmacology.** Naples, 27-30 October 2015
- Chiazza F., Mastrocola R., Penna C., Nigro D., Fracasso V., Tullio F., Femminò S., Alloatti G., Fantozzi R., Pagliaro P., Aragno M., Collino M. (2015). *Role of NLRP3 inflammasome in a mouse model of diet-induced exacerbation of myocardial ischemia/reperfusion injury*. **37th Congress of the Italian Society of Pharmacology**. Naples, 27-30 October 2015

POSTER PRESENTED IN CONGRESSES

- G. Pinton, E. Mantovani, M. Perucca, V. Gigliotti, G. Dematteis, J. Mauecha, G. Chrostek, L. Tapella, D. Lim, L. Moro, F. Chiazza. "High fat diet induced Histone-3-K27-trimethylation is involved in the early onset of liver steatosis". 2nd edition "**Behavioral and metabolic aspects of obesity and eating disorders**" Convegno monotematico dal GdL Obesita Sindrome Metabolica e Disordini Alimentari della SIF, Camerino, 6-8 Giugno 2024

- G. Einaudi, F. Chiazza, I. Bertocchi, E. Aimaretti, A. Oberto, C. Cifani, M. V. Micioni di Bonaventura, M. Collino. “Effects of limbic NPY-Y1 receptor knockout on adipose tissue”. 2nd edition “**Behavioral and metabolic aspects of obesity and eating disorders**” Convegno monotematico dal GdL Obesita , Sindrome Metabolica e Disordini Alimentari della SIF, Camerino, 6-8 Giugno 2024
- F. Chiazza, E. Mantovani, A. Marengo, D. Russo, B. Ragnoli, M. Malerba. “New imaging approach to evaluate the in vivo administration of nanostructured mycophenolic acid in a preclinical model of SSC-ILD”. **European Respiratory Society (ERS) Congress** 2024, Vienna, 7-11 Settembre 2024
- G. Pinton, E. Mantovani, M. Perucca, V. Gigliotti, G. Dematteis, J. Mauecha, G. Chrostek, L. Tapella, D. Lim, L. Moro, F. Chiazza. “High fat diet induced Histone-3-K27-trimethylation is involved in the early onset of liver steatosis”. **42° Congresso Nazionale della Societa Italiana di Farmacologia**, Sorrento, 13-16 Novembre 2024
- E. Mantovani, B. Ragnoli, N. Clemente, A. Marengo, D. Russo, A. Ronchail, M. Malerba, F. Chiazza. “New imaging approach to evaluate the in vivo administration of nanostructured mycophenolic acid in a preclinical model of SSC-ILD”. **42° Congresso Nazionale della Societa Italiana di Farmacologia**, Sorrento, 13-16 Novembre 2024
- G. Einaudi, F. Chiazza, I. Bertocchi, E. Aimaretti, A. Oberto, C. Cifani, M. V. Micioni Di Bonaventura, M. Collino. “Peripheral effects of limbic NPY-1R knockout on NPY’s signalling and lipid metabolism”. **42° Congresso Nazionale della Societa Italiana di Farmacologia**, Sorrento, 13-16 Novembre 2024
- B. Ragnoli, E. Mantovani, A. Marengo, D. Russo, F. Chiazza, M. Malerba. “New imaging approach to evaluate the in vivo administration of nanostructured mycophenolic acid in a preclinical model of SSC-ILD”. **25° Congresso Nazionale della Pneumologia, Milano,** 16-18 Novembre 2024
- F. Chiazza, H. Tammen, H. Pintana, G. Lietzau, M. Collino, T. Nyström, T. Klein, V. Darsalia, C. Patrone. The effect of the DPP-4 inhibitor Linagliptin to improve functional outcome after stroke is mediated by the CXCR4/SDF-1α pathway. In: **SRP Diabetes Retreat,** Var Gard, May 17-18 2018
- Chiazza F, Mastrocola R, Cento AS, Nigro D, Collotta D, Bitonto V, Cutrin JC, Fantozzi R, Aragno M, Collino M (2017). The ages inhibitor pyridoxamine prevents kidney injury and dysfunction in mice fed high-fat high-fructose diet. **In: 38th Congress of the Italian Society of Pharmacology.** Rimini, Italy, 25th-28th October 2017
- Chiazza F, Cento AS, Nigro D, Ferrocino I, Rantsiou K, Bitonto V, Cutrin JC, Querio G, Liberto E, Cordero C, Cocolin L, Fantozzi R, Aragno M, Mastrocola R, Masini E, Collino M (2017). Toxicological impact of high fructose intake on gut microbiota and liver/intestine integrity: any differences between solid and liquid formulations? In: **38th Congress of the Italian Society of Pharmacology.** Rimini, Italy, 25th-28th October 2017
- Chiazza F, Mastrocola R, Penna C, Nigro D, Tullio F, Alloatti G, Cocco M, Bertinaria M, Pagliaro P, Aragno M, Thiemermann C, Collino M (2016). Pharmacological inhibition of NLRP3 inflammasome exerts beneficial effects against ischaemia/reperfusion injury in the rat heart by local improvement of protective signaling pathways. In: **PHARMACOLOGY 2016 British Pharmacological Society.** London, 13–15 December 2016
- Chiazza F, Benetti E, Couturier-Maillard A, Mastrocola R, Nigro D, Cutrin JC, Aragno M, Ryffel B, Thiemermann C, Fantozzi R, Collino M (2015). Targeting the NLRP3 inflammasome to reduce diet-induced metabolic abnormalities in mice. In: **PHARMACOLOGY 2015, British Pharmacological Society.** London, 15-17 December 2015

- F. Chiazza, T. D.Challa, F. Lucchini, M. Collino, S. Wüest, D. Konrad (2015). Short term high fat diet evokes long lasting hepatic steatosis. In: **37th Congress of the Italian Society of Pharmacology.** Naples, 27-30 October 2015
- F. Chiazza, R. Mastrocola, C. Penna, D. Nigro, F. Tullio, S. Femminò, G. Alloatti, M. Cocco, D. Garella, M. Bertinaria, R. Fantozzi, P. Pagliaro, M. Aragno, M. Collino (2015). The NLRP3 inflammasome as a new pharmacological target in myocardial ischemia/reperfusion injury in the adult rat. In: **37th Congress of the Italian Society of Pharmacology.** Naples, 27-30 October 2015
- F. Chiazza, E. Benetti, R. Mastrocola, D. Nigro, M. Rogazzo, J.C. Cutrin, G. D'Antona, M. Aragno, M.A. Minetto, C. Thiemermann, R. Fantozzi, M. Collino (2015). New pharmacological approaches to modulate skeletal muscle metaflammation in mice models of diabesity. In: **37th Congress of the Italian Society of Pharmacology.** Naples, 27-30 October 2015
- Chiazza F, Mastrocola R, Penna C, Nigro D, Tullio F, Femminò S, Alloatti G, Cocco M, Garella D, Bertinaria M, Fantozzi R, Pagliaro P, Aragno M, Collino M (2015). The NLRP3 inflammasome as a new pharmacological target in myocardial ischemia/reperfusion injury in the adult rat. In: **37th Congress of the Italian Society of Pharmacology.** Naples, 27-30 October 2015
- F. Chiazza, E. Benetti, M. Rogazzo, S. Cannito, C. Paternostro, E. Novo, M. Parola, R. Fantozzi, M. Collino (2013). Hepatocyte-derived microparticles promote NLRP3 inflammasome activation in HepG2 cells. In: **36th Congress of the Italian Society of Pharmacology.** Turin, Italy, 23rd-26th October 2013
- F. Chiazza, M. Rogazzo, E. Benetti, K. Chegaev, A. Di Stilo, R. Fruttero, J.C. Cutrin, R . Fantozzi, M. Collino (2013). Nitric oxide release by an edavarone derivative containing NOdonor furoxan moiety contributes to the resolution of renal injury after ischemia/reperfusion in the rat. In: **36th Congress of the Italian Society of Pharmacology.** Turin, Italy, 23rd-26th October 2013

PROCEEDINGS

- 1. Mastrocola R., Nigro D., **Chiazza F.**, Collino M., Aragno M. Fructose-Derived Advanced Glycation End-Products Evoke Skeletal Muscle Damage in Mice by Multiple Interference with SCAP-SREBP Pathway. Free Radical Biology and Medicine 76, Supplement 1, November 2014, Pages S101.
- 2. Paternostro C.; Benetti E.; Cannito S.; Novo E.; **Chiazza F.**; Rogazzo M.; Bocca C.; Fantozzi R.; Povero D.; Feldstein A.; Collino M.; Parola M. P265 Microparticles released as a consequence of lipid-induced toxicity promote NLRP3 inflammasome activation in HepG2 cells. Journal of Hepatology 2014 vol. 60: S153
- 3. Chen J, **Chiazza F**, Collino M; Patel NSA, Coldewey SM, Patel NS, Thiemermann C. Gender dimorphism of the cardiac dysfunction in murine sepsis: Signalling mechanisms and age-dependency. Shock, vol. 41 (S2), page 35, 2014
- 4. R Sordi, **F Chiazza**, N Patel, M Collino, C Thiemermann. A Selective IκB Kinase Inhibitor (IKK16) Attenuates The Organ Injury / Dysfunction Associated With Haemorrhagic Shock In The Rat. Proceedings of the British Pharmacological Society. pA2 Vol. 12, Issue 3, Page:083P, 2014
- 5. J Chen, J Kieswich, **F Chiazza**, N Patel, M Collino, M Yaqoob, C Thiemermann. Pre-existing chronic kidney disease worsens the myocardial dysfunction caused by sepsis in mice. Proceedings of the British Pharmacological Society. pA2 Vol. 12, Issue 3, Page:055P, 2014
- 6. J Chen, J Kieswich, **F Chiazza**, Gobetti T, N Patel, Perretti M, M Collino, M Yaqoob, C Thiemermann. The cardiac dysfunction caused by sepsis in

animals with chronic kidney disease is attenuated by inhibiting I kappa B kinase. Shock, vol 43, issue 6 (S1):92-93, P144

- 7. R Sordi, K Nandra, **F Chiazza**, N Patel, M Collino, Brohi K, C Thiemermann. Artesunate protects against the organ injury and dysfunction induced by severe hemorrhage and resuscitation. Shock, vol 43, issue 6 (S1):76-77, P106
- 8. J Chen, J Kieswich, **F Chiazza**, Gobetti T, N Patel, Perretti M, **M Collino**, M Yaqoob, C Thiemermann. The cardiac dysfunction caused by sepsis in animals with chronic kidney disease is attenuated by inhibiting I kappa B kinase. Shock, vol 44 (S2):16, 2015
- 9. R Sordi, KK Nandra, **F Chiazza**, NSA Patel, K Brohi, M Collino, C Thiemermann. Trauma organ protection with artesunate: preclinical efficacy of an antimalarial drug with excellent safety profile and plannned phase II RCT. Shock, vol 44 (S2):1, 2015
- 10. Mastrocola R, Collino M, Nigro D, Medana C, Dal Bello F, **Chiazza F**, Boccuzzi G, Aragno M. Fructose-derived advanced glycation end-products induce a negative crosstalk between lipogenesis and muscle reprogramming in mice through SREBP-1c. Diabetologia 2015, Vol 58: S559-S560
- 11. E. Benetti, G. Vitarelli, M. Collino, R. Mastrocola, J.C. Cutrin, **F. Chiazza**, D. Nigro, R. Fantozzi. Effects of empagliflozin in a murine model of diet-induced insulin resistance: A role for NLRP3 inflammasome inhibition? Diabetologia 2015, Vol 58: S327-S328
- 12. S. Femminò, **F. Chiazza**, R. Mastrocola, F. Tullio, C. Penna, D. Nigro, G. Alloatti, M. Cocco, D. Garella, M. Bertinaria, R. Fantozzi, M. Aragno, M. Collino, P. Pagliaro. Is NLRP3 inflammasome a new pharmacological target in myocardial ischemia/reperfusion injury? VASCULAR PHARMACOLOGY Volume: 75 Pages: 51-51, 2015
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Autorizzo il trattamento dei dati personali contenuti nel mio CV ex art. 13 del decreto legislativo 196/2003 e art. 13 del regolamento UE 2016/679 sulla protezione dei singoli cittadini in merito al trattamento dei dati personali

Fausto Chiazza

04/06/2025 Novara