



Fausto Chiazza

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GENERAL INFORMATION

Department of Pharmaceutical
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Date Of Birth: May 29th, 1988

Nationality: Italian

CF: CHZFST88E29G273Z

Residence Address: Via Fornace
Vecchia 1, Novara, NO, 28100, Italy

SCIENTIFIC METRIC OVERVIEW

From Scopus (update February 9th
2023):

Documents by author:

50

Citations:

1397 by 1189 documents

h-Index:

26

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

DICHIARAZIONE SOSTITUTIVA DI CERTIFICAZIONE

CURRICULUM VITAE DELL'ATTIVITA' SCIENTIFICA E DIDATTICA

REDATTO AI SENSI DEGLI ARTT. 46 E 47 DEL D.P.R. 28.12.2000, N. 445

Il sottoscritto CHIAZZA FAUSTO nato a PALERMO il 29 Maggio 1988; C.F. CHZFST88E29G273Z residente a NOVARA (Prov. NOVARA) C.A.P. 28100 in Vi Fornace Vecchia n. 1

ai sensi degli artt. 46 e 47 del D.P.R. 445/2000 e consapevole che le dichiarazioni mendaci sono punite ai sensi del codice penale e delle leggi speciali in materia, secondo le disposizioni richiamate dall'art. 76 del D.P.R. 445/2000

DICHIARA

Che tutte le informazioni sotto riportate nel curriculum vitae sono veritiere e supportate da documenti comprovanti la validità

PROFESSIONAL EXPERIENCE

06/2022 - Present

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 is carried out in the Laboratory of Neuroplasticity (P.I. Prof.ssa Mariagrazia Grilli), and focuses 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 Neuroplasticity (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 establish 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 Reynolds 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 research 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. 2022-2023: Teacher (Docente) in " Farmacologia generale e farmacologia molecolare" (FA0027). SSD BIO/14 - FARMACOLOGIA, 40h, 5 CFU, 3th 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

During my career I was co-supervisor of 3 experimental theses and I followed a total of more than 35 students in their experimental thesis

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 (LTK-1 FELASA Certificate): 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.

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 The Italian Society of Pharmacology (SIF)
- 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

- 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-Farindustria 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 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>)
- 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

- 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, Gaudio 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, Thiernemann C. Inhibition of Bruton's TK regulates macrophage NF- κ B 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, Gaudio G, Fava F, Yaqoob M, Aragno M, Tuohy K, Thiernemann 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, Thiernemann 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, Thiernemann 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, Thiernemann 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, Thiernemann 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, Thiernemann C. Linagliptin Attenuates the Cardiac Dysfunction Associated With Experimental Sepsis in Mice With Pre-existing Type 2 Diabetes by Inhibiting NF- κ B. *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, Thiernemann 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-1 α /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, Coccolin 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**
- Lietzau G, Davidsson W, Östenson CG, **Chiazza F**, Nathanson D, Pintana H, Skogsberg J, Klein T, Nyström T, Darsalia V, Patrone C. Type 2 diabetes impairs odour detection, olfactory memory and olfactory neuroplasticity; effects partly reversed by the DPP-4 inhibitor Linagliptin. *Acta Neuropathol Commun*. 2018 Feb 23;6(1):14. doi: 10.1186/s40478-018-0517-1. PMID: 29471869 **IF. 7.801**
- Benetti E, Mastrocola R, **Chiazza F**, Nigro D, D'Antona G, Bordano V, Fantozzi R, Aragno M, Collino M, Minetto MA. Effects of vitamin D on insulin resistance and myosteatosis in diet-induced obese mice. *PLoS One*. 2018 Jan 17;13(1):e0189707. doi: 10.1371/journal.pone.0189707. eCollection 2018. PMID: 29342166 **IF. 3.240**
- Purvis GSD, **Chiazza F**, Chen J, Azevedo-Loiola R, Martin L, Kusters DHM, Reutelingsperger C, Fountoulakis N, Gnudi L, Yaqoob MM, Collino M, Thiemermann C, Solito E. Annexin A1 attenuates microvascular complications through restoration of Akt signalling in a murine model of type 1 diabetes. *Diabetologia*. 2018 Feb;61(2):482-495. doi: 10.1007/s00125-017-4469-y. Epub 2017 Oct 30. PMID: 29085990 **IF. 10.122**
- **Chiazza F**, Cento AS, Collotta D, Nigro D, Rosa G, Baratta F, Bitonto V, Cutrin JC, Aragno M, Mastrocola R, Collino M. Protective Effects of Pyridoxamine Supplementation in the Early Stages of Diet-Induced Kidney Dysfunction. *Biomed Res Int*. 2017;2017:2682861. doi: 10.1155/2017/2682861. Epub 2017 Oct 29. PMID: 29214163 **IF. 3.411**
- Johnson FL, Patel NSA, Purvis GSD, **Chiazza F**, Chen J, Sordi R, Hache G, Merezko VV, Collino M, Yaqoob MM, Thiemermann C. Inhibition of IκB Kinase at 24 Hours After Acute Kidney Injury Improves Recovery of Renal Function and Attenuates Fibrosis. *J Am Heart Assoc*. 2017 Jul 3;6(7):e005092. doi: 10.1161/JAHA.116.005092. PMID: 28673900 **IF. 5.501**
- Yamada N, Martin LB, Zechendorf E, Purvis GSD, **Chiazza F**, Varrone B, Collino M, Shepherd J, Heinbockel L, Gutschmann T, Correa W, Brandenburg K, Marx G, Schuerholz T, Brohi K, Thiemermann C. Novel Synthetic, Host-defense Peptide Protects Against Organ Injury/Dysfunction in a Rat Model of Severe Hemorrhagic Shock. *Ann Surg*. 2018 Aug;268(2):348-356. doi: 10.1097/SLA.0000000000002186. PMID: 28288070 **IF. 12.969**
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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 E., *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
 - *inflammatory and autoimmune diseases*. **41st Congress of the Italian Society of Pharmacology.** Rome, 16th-19th November 2022
- Chiazza E., 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 E., 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 E., Femminò S., Collotta D., Zicola E., 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 E., 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-1 α pathway.* **MORE THAN NEURONS: toward a less neuronocentric view of brain disorders; II edition.** TORINO, ITALY NOVEMBER 29TH - DECEMBER 1ST, 2018
- Chiazza E., 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-1 α pathway.* **SIRC Forum 2018,** Rome October 6 2018
- Chiazza E., 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-1 α pathway.* **XXI SIF seminar on pharmacology for phd students, fellows, post doc and specialist trainees.** Zambon, Bresso (Mi), Italy September 19-22, 2018
- Chiazza E., 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 E., 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 diabetes 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 E., 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 E., 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

- 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-1 α 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, Coccolin 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 diabetes. 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, Thiernemann 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 Thiernemann. 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 Thiernemann. 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 Thiernemann. 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 Thiernemann. 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 Thiernemann. 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 Thiernemann. Trauma organ protection with artesunate: preclinical efficacy of an antimalarial drug with excellent safety profile and planned 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
- 13. F. Tullio, **F. Chiazza**, R. Mastrocola, C. Penna, D. Nigro, V. Fracasso, G. Alloatti, R. Fantozzi, M. Aragno, M. Collino, P. Pagliaro. Exacerbation of myocardial ischemia/reperfusion injury induced by high-fat-high-fructose (HFHF) diet: Role of NLRP3 inflammasome *VASCULAR PHARMACOLOGY* Volume: 75 Pages: 65-66, 2015
- 14. Chen J, Kieswich JE, **Chiazza F**, Moyes AJ, Gobbetti T, Purvis GS, Salvatori DC, Patel NS, Perretti M, Hobbs AJ, Collino M, Yaqoob MM, Thiernemann C. IκB Kinase Inhibitor Attenuates Sepsis-Induced Cardiac Dysfunction in mice with CKD. *Shock*, vol 46 (4, Suppl 2) 29-30, 2016
- 15. Thiernemann C., Sordi R, Nandra KK, **Chiazza F**, Johnson FL, Cabrera CP, Torrance HD, Yamada N, Patel NS, Barnes MR, Brohi K, Collino M. Artesunate Protects Against the Organ Injury and Dysfunction Induced by Severe Hemorrhage and Resuscitation. *Shock*, vol 46 (4, Suppl 2) 16-7, 2016
- 16. Collino, M.; **Chiazza, F.**; Collotta, D.; Collino, M, Cento, AS; Nigro, D ; Bitonto, V; Cutrin, JC; Aragno, M; Mastrocola, R. The AGEs inhibitor pyridoxamine prevents kidney injury and dysfunction in mice fed high-fat high-fructose diet Conference: 53rd Annual Meeting of the European-Association-for-the-Study-of-Diabetes (EASD) Location: Lisbon, PORTUGAL Date: SEP 11-15, 2017 Sponsor(s): European Assoc Study Diabet *DIABETOLOGIA* Volume: 60 Supplement: 1 Pages: S504-S505 Meeting Abstract: 1096 Published: SEP 2017
- 17. Mastrocola, R.; Cento, A. S.; **Chiazza, F.**; Ferrocino, I ; Bitonto, V; Nigro, D; Querio, G; Rantsiou, K; Cutrin, JC ; Aragno, M; Liberto, E ; Masini, E; Cordero, C ; Cocolin, L ; Collino, M. Toxicological impact of high fructose intake on gut microbiota and liver/intestine integrity: Any differences between solid and liquid formulations? Conference: 53rd Annual Meeting of the European-Association-for-the-Study-of-Diabetes (EASD) Location: Lisbon, PORTUGAL Date: SEP 11-15, 2017 Sponsor(s): European Assoc Study Diabet Volume: 60 Supplement: 1 Pages: S245-S245 Meeting Abstract: 538 Published: SEP 2017
- 18. Yamada, Noriaki; Martin, Lukas; Zechendorf, Elisabeth; **Chiazza, F** ; Varrone, B ; Collino, M ; Shepherd, J ; Heinbockel, L ; Correa, W; Brandenburg, K ; Marx, G ; Schuerholz, T ; Brohi, K ; Thiernemann, C. A NOVEL SYNTHETIC, HOST-DEFENCE PEPTIDE PROTECTS AGAINST ORGAN INJURY/DYSFUNCTION IN A RAT-MODEL OF SEVERE HEMORRHAGIC SHOCK Conference: 40th Annual Conference on Shock Location: Fort Lauderdale, FL Date: JUN 03-06, 2017 *SHOCK* Volume: 47 Issue: 6 Supplement: 1 Pages: 116-117 Meeting Abstract: P204 Published: JUN 2017
- 19. Martin, Lukas; Chen, Jianmin; Zechendorf, Elisabeth; **Chiazza, F** ; Oggero, S ; Collino, M ; Marx, G ; Schuerholz, T ; Thiernemann, C. ROLE OF THE beta-D-ENDOGLUCURONIDASE HEPARANASE IN SEPTIC CARDIOMYOPATHY Conference: 40th Annual Conference on Shock Location: Fort Lauderdale, FL

Date: JUN 03-06, 2017 SHOCK Volume: 47 Issue: 6 Supplement: 1 Pages: 129-129 Meeting Abstract: P233 Published: JUN 2017

- 20. Purvis, GSD ; **Chiazza, F** ; Collino, M ; Solito, E ; Thiemermann, C
Endogenous Annexin-A1 is a Protective Determinant in HFD-induced Insulin Resistance and Diabetic Nephropathy Conference: Annual Meeting of the American-Society-for-Pharmacology-and-Experimental-Therapeutics (ASPET) at Experimental Biology Meeting Location: Chicago, IL Date: APR 22-26, 2017 Sponsor(s): Amer Soc Pharmacol & Expt Therapeut; Amer Assoc Anatomists; Amer Physiol Soc; Amer Soc Biochem & Mol Biol; Amer Soc Investigat Pathol; Amer Soc Nutr. FASEB JOURNAL Volume: 31 Supplement: 1 Meeting Abstract: 853.3 Published: APR 2017
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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

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