

Curriculum Vitae

Personal information **Fausto Chiazza**

Work 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 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 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. 2023-2024: Teacher (Docente) in " Farmacologia generale e farmacologia molecolare" (FA0027). SSD BIO/14 - FARMACOLOGIA, 80h, 10 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. 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, 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. 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

Education and training

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

Additional information

Publications

Scientific metric overview

- 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)

From Scopus (update November 30th 2023):

Documents by author:

50

Citations:

1621 by 1391 documents

h-Index:

27

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 LJ, 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, 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, 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, Reutlingsperger 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, 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**

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, Thiernemann 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, Merezhko VV, Collino M, Yaqoob MM, Thiernemann 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, Thiernemann 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**

Cannito S, Morello E, Bocca C, Foglia B, Benetti E, Novo E, **Chiazza F**, Rogazzo M, Fantozzi R, Povero D, Sutti S, Bugianesi E, Feldstein AE, Albano E, Collino M, Parola M. Microvesicles released from fat-laden cells promote activation of hepatocellular NLRP3 inflammasome: A pro-inflammatory link between lipotoxicity and non-alcoholic steatohepatitis. *PLoS One.* 2017 Mar 1;12(3):e0172575. doi: 10.1371/journal.pone.0172575. eCollection 2017. PMID: 28249038 **IF. 3.240**

Nigro D, Menotti F, Cento AS, Serpe L, **Chiazza F**, Dal Bello F, Romaniello F, Medana C, Collino M, Aragno M, Mastrocola R. Chronic administration of saturated fats and fructose differently affect SREBP activity resulting in different modulation of Nrf2 and Nlrp3 inflammasome pathways in mice liver. *J Nutr Biochem.* 2017 Apr;42:160-171. doi: 10.1016/j.jnutbio.2017.01.010. Epub 2017 Jan 28. PMID: 28189916 **IF. 6.048**

Sordi R, Nandra KK, **Chiazza F**, Johnson FL, Cabrera CP, Torrance HD, Yamada N, Patel NS, Barnes MR, Brohi K, Collino M, Thiernemann C. Artesunate Protects Against the Organ Injury and Dysfunction Induced by Severe Hemorrhage and Resuscitation. *Ann Surg.* 2017 Feb;265(2):408-417. doi: 10.1097/SLA.0000000000001664. PMID: 28059970 **IF. 12.969**

Mastrocola R, Penna C, Tullio F, Femminò S, Nigro D, **Chiazza F**, Serpe L, Collotta D, Alloatti G, Cocco M, Bertinaria M, Pagliaro P, Aragno M, Collino M. Pharmacological Inhibition of NLRP3 Inflammasome Attenuates Myocardial Ischemia/Reperfusion Injury by Activation of RISK and Mitochondrial Pathways. *Oxid Med Cell Longev.* 2016;2016:5271251. doi: 10.1155/2016/5271251. Epub 2016 Dec 8. PMID: 28053692 **IF. 6.543**

Martin L, Horst K, **Chiazza F**, Oggero S, Collino M, Brandenburg K, Hildebrand F, Marx G, Thiernemann C, Schuerholz T. The synthetic antimicrobial peptide 19-2.5 attenuates septic cardiomyopathy and prevents down-regulation of SERCA2 in polymicrobial sepsis. *Sci Rep.* 2016 Nov 17;6:37277. doi: 10.1038/srep37277. PMID: 27853260 **IF. 4.380**

Benetti E, Mastrocola R, Vitarelli G, Cutrin JC, Nigro D, **Chiazza F**, Mayoux E, Collino M, Fantozzi R. Empagliflozin Protects against Diet-Induced NLRP-3 Inflammasome Activation and Lipid Accumulation. *J Pharmacol Exp Ther.* 2016 Oct;359(1):45-53. doi: 10.1124/jpet.116.235069. Epub 2016 Jul 20. PMID: 27440421 **IF. 4.030**

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 CKD. *J Am Soc Nephrol.* 2017 Jan;28(1):94-105. doi: 10.1681/ASN.2015060670. Epub 2016 May 6. PMID: 27153924 **IF. 10.121**

Chiazza F, Challa TD, Lucchini FC, Konrad D, Wueest S. A short bout of HFD promotes long-lasting hepatic lipid accumulation. *Adipocyte*. 2015 Jul 17;5(1):88-92. doi: 10.1080/21623945.2015.1071454. eCollection 2016 Jan-Mar. PMID: 27144100 **IF. 4.534**

Sordi R, **Chiazza F**, Collino M, Assreuy J, Thiernemann C. Neuronal Nitric Oxide Synthase is Involved in Vascular Hyporeactivity and Multiple Organ Dysfunction Associated with Hemorrhagic Shock. *Shock*. 2016 May;45(5):525-33. doi: 10.1097/SHK.0000000000000533. PMID: 26863124 **IF. 3.454**

Chiazza F, Collino M. Peroxisome Proliferator-Activated Receptors (PPARs) in Glucose Control. *Molecular Nutrition and Diabetes: A Volume in the Molecular Nutrition Series* Pages 105 – 114 2016. ISBN 978-012801585-8. DOI 10.1016/B978-0-12-801585-8.00009-9 2016 **Book Chapter**

Mastrocola R, Nigro D, Cento AS, **Chiazza F**, Collino M, Aragno M. High-fructose intake as risk factor for neurodegeneration: Key role for carboxy methyllysine accumulation in mice hippocampal neurons. *Neurobiol Dis*. 2016 May;89:65-75. doi: 10.1016/j.nbd.2016.02.005. Epub 2016 Feb 3. PMID: 26851500 **IF. 5.996**

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Projects

- Principal Investigator in Fondi di ricerca FAR 2017 (Department of Drug Science, University of Eastern Piedmont, Novara, Italy) 2019
- 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.
- Albert Renold Travel Fellowship (EFSD) 2017

Memberships

- 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 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

Other Relevant Information