



Fausto Chiazza

Date of birth: 29/05/1988

Nationality: Italian

Gender: Male

CONTACT

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ABOUT ME

I am a researcher at the "Department of Drug Sciences" in Novara, Italy. The main focus of my research concerns the study of new pharmacological targets in cardiometabolic diseases.

WORK EXPERIENCE

01/06/2022 – CURRENT Novara, Italy

Researcher B University of Eastern Piedmont, Department of Drug Sciences

02/05/2019 – 30/04/2022 Novara, Italy

Researcher A University of Eastern Piedmont, Department of Drug Sciences

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.

01/04/2018 – 31/03/2019 Turin, Italy

Post-Doc Researcher University of Turin, Department of Drug Sciences and Technology

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 cardiometabolic 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 comorbidities.

01/11/2017 – 31/03/2018 Stockholm, Sweden

Post-Doc Researcher Karolinska Institutet, Department of Clinical Science and Education, Södersjukhuset (SÖS)

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.

01/07/2017 – 31/10/2018 Stockholm, Sweden

Visiting Post Doc Researcher Karolinska Institutet, Department of Clinical Science and Education, Södersjukhuset (SÖS)

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.

01/04/2016 – 31/03/2017 Turin, Italy

Scholarship Holder University of Turin, Department of Drug Sciences and Technology

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

01/08/2014 – 28/02/2015 Zurich, Switzerland

Visiting PhD student Children Hospital, University of Zurich

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.

01/01/2013 – 26/02/2016 Turin, Italy

PhD Student University of Turin, Department of Drug Sciences and Technology

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.

EDUCATION AND TRAINING

01/10/2007 – 18/10/2012 Turin

Master Degree in Pharmaceutical Chemistry and Technology University of Turin, Department of Drug Sciences and Technology

Final grade 110/100 com Laude and thesis mention | **Thesis** Study of the protective effects of a new derivative of erythropoietin without erythropoietic activity in an animal model of renal ischemia / reperfusion

LANGUAGE SKILLS

MOTHER TONGUE(S): Italian

Other language(s):

English

Listening C1

Spoken production C1

Reading C1

Spoken interaction B2

Writing B2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

ADDITIONAL INFORMATION

List of Publications

Link to the List of Publications on International Peer reviewed Journals

List of Congresses

Oral communications presented in congresses

- Chiazza F., *Novel insight in Inflammation and the link to Cardio-Cerebrovascular Diseases.* **41st Congress of the Italian Society of Pharmacology.** Rome, 16th-19th November 2022
- Chiazza F. et al. (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. et al. (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. et al. (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. et al. (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 F. et al. (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 F. et al. *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 F. et al. (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. et al. (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 F. et al. (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. et al. (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

List of Grants and Awards

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- 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 Communication (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€)

Affiliations

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

Additional Information

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>)
- 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)