

## CURRICULUM VITAE Massimo Collino

Born in Pinerolo (TO, Italy) – 19<sup>th</sup> January 1973



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**Current Position:** Full Professor of Pharmacology and Toxicology, University of Turin, IT

### **Education:**

- 1998: Bachelor Degree in Pharmaceutical Chemistry and Technology at the University of Turin, Faculty of Pharmacy : summa cum laude.
- 31/1/2003: Ph. D. in “Pharmacology and Toxicology”
- 2002 -2014 Assistant Professor of Pharmacology and Toxicology, Dept. Drug Science and Technology, University of Turin (Italy)
- 2014 -2021 Associate Professor of Pharmacology and Toxicology, Dept. Drug Science and Technology, University of Turin (Italy)

### **Visiting Scientist**

2003-2004: William Harvey Research Institute, Queen Mary's School of Medicine and Dentistry, University of London, London (UK)

### **Visiting Professor:**

2020-2022: Visiting Professor in Pharmacology at the Faculty of Health Sciences, Ben-Gurion University of the Negev, Israel (Dozor Visiting Scholar)

### **Scientific Activity:**

Since 2001 author of:

- 109 full papers published in international journals with Impact Factor;
- 60 proceedings published in international journals with Impact Factor;
- 1 Book
- 4 Book chapters

Citations: 3683

h-index: 35

(Scopus database 2-2-2022)

Fellow of the Italian Pharmacological Society, British Pharmacological Society, European Shock Society, European Biomedical Research Association

Since 2019, Member of the **Scientific Cooperation Working Group on Botanicals of the European Food Safety Authority (EFSA)** aimed to test the proposed approach for the safety assessment with a number of botanicals, and to expand the Compendium on Botanicals.

Since 2020: Member of the **Ethical Committee** for clinical trials in A.O.U. San Luigi Gonzaga di Orbassano e AA.SS.LL. TO3-TO4-TO5

2015-2019: Member of the **Ethical Committee** for clinical trials in ASO S. Croce e Carle, AA.SS.LL CN1, CN2 e AT

Since 2018 Member of the **Scientific Board of the Master** (II level) in Community Pharmacy "Chiara Colombo" - Università di Torino

Since 2020 **Director of the Master** (II level) in Community Pharmacy "Chiara Colombo" - Università di Torino

Since 2018 Member of of the **Scientific Committee** of the Educational Section of Centro Pediatrico Torino (C.P.G s.r.l.)

**Member of the Editorial Board** of :

- **"Oxidative Medicine and Cellular Longevity"** (ISSN: 1942-0900; Electronic ISSN: 1942-0994; Journal Impact Factor 5.1)
- **"Frontiers in Immunology"** (ISSN and Electronic ISSN: 1664-3224; Journal Impact Factor 5.1, Associate Editor for the Section Inflammation)
- **"International Journal of Molecular Sciences"** (ISSN 1422-0067; Journal Impact Factor 4.5, Topic Editor)
- **"Journal of Diabetes & Metabolism"** (ISSN:2155-6156)
- **"Journal of Diabetes research and therapy"** (ISSN 2380-5544) **"Diabetes Research" – Open Journal** (ISSN 2379-6375 online)

Lead Guest Editor for a Special Issue on the Journal "Mediators of Inflammation" (ISSN: 0962-9351), Title Special Issue: "Mediators of Interorgan Crosstalk in Metabolic Inflammation", 2013

Lead Guest Editor for a Special Issue on the Journal "Journal of Diabetes & Metabolism" (ISSN:2155-6156). Title Special Issue: "Diabetes, Obesity & their Related Diseases", J Diabetes Metab 2013, S11,

Guest Editor for a Special Issue on the Journal "BioMed Research International" (ISSN: 2314-6133). Title Special Issue: "Diabetic Nephropathy: Novel Molecular Mechanisms and Therapeutic Avenues", 2017

Guest Editor for a Special Issue on the Journal "Oxidative Medicine and Cellular Longevity" (ISSN: 1942-0900). Title Special Issue: Gut Microbiota and Oxidative Stress: Implications in Cardiovascular Disease, 2018

**Member of the Organizing Committee:**

- 8<sup>th</sup> Euro Global Diabetes Summit and Medicare Expo – November 2015, Valencia, Spain
- 10<sup>th</sup> European Diabetes Congress, July 14-16<sup>th</sup> , 2016 at Cologne, Germany.
- International Conference on Nutrition and Health, Sept 26-28<sup>th</sup> 2018 Frankfurt, Germany
- Euro Nutrition 2018, October 18-20<sup>th</sup>, 2018 Paris, France
- "More than Neurons", November 29-December 1<sup>st</sup> 2018, Torino, Italy
- "International Conference on Food Science and Nutrition" Oct 23-25<sup>th</sup> 2019 Rome, Italy

Invited reviewer for several peer-reviewed scientific journals, including *Diabetes; Stroke; Diabetes, Obesity and Metabolism; British Journal of Pharmacology; Biochemical Pharmacology; Pharmacological Research, Journal of Cellular and Molecular Medicine, etc.*

Invited participant to the FRENZ Diabetes and Obesity Sandpit: "Novel approaches to addressing genetic and environmental factors associated with diabetes and obesity" (5-8 July 2011, Rotorua, New Zealand) organized within the European Commission's Seventh Framework Programme for Research and Technological Development (FP7) in collaboration with the Health Research Council of New Zealand (HRC).

**Expert evaluator of research projects** for the following Institution:

- Medical Research Council (United Kingdom)
- Diabetes UK Research Network (United Kingdom)
- Estonian Research Council (Estonia)
- Israel Science Foundation (Israel)
- National Science Center of Poland (Poland)

**Invited Speaker and Chairperson:**

- INVITED SPEAKER: "Drug therapy of headache." XII International Pain Clinic Congress, Turin (Italy), July 4-7, 2006
- INVITED SPEAKER: "NSAIDs in cancer pain" XII International Pain Clinic Congress, Turin (Italy), July 4-7<sup>th</sup>, 2006
- CHAIRPERSON: Metabolism pharmacology – 36<sup>th</sup> Congress of the Italian Society of Pharmacology, October 23<sup>rd</sup>-26<sup>th</sup> 2013, Turin, Italy
- INVITED SPEAKER: "Cardiometabolic diseases and the inflammasome: a key and innovative pharmacological target?" 8<sup>th</sup> Euro Global Diabetes Summit and Medicare Expo, November 3-5<sup>th</sup>, 2015, Valencia, Spain
- INVITED SPEAKER: "Alla scoperta di nuove relazioni tra nutrizione, microbiota e infiammazione: l'esempio dell'infiammasoma" Quarta Giornata Regionale di Nutrizione Clinica December 3<sup>rd</sup> 2015, Pollenzo (CN), Italy
- INVITED SPEAKER: "From research to clinic: role of inflammasome and micro RNA in atherosclerosis" Italian Society of Diabetologia, February 20<sup>th</sup> 2015, Bologna, Italy
- INVITED SPEAKER: "Chemioterapici in Dermatologia: problemi e soluzioni", XXV National Congress AIDA (Associazione Italiana Dermatologi Ambulatoriali), May 4-7<sup>th</sup> 2016, Riccione (RN), Italy
- INVITED SPEAKER: "Emangiomi Infantili: Nuovi orizzonti", National Congress SISAV (Società Italiana per lo Studio delle Anomalie Vascolari), September 15-17<sup>th</sup> 2016, Riccione, Italy
- INVITED CHAIRPERSON: "More than neurons: toward a less neuronocentric view of brain disorders", December 1-3<sup>rd</sup> 2016, Torino (Italy)
- INVITED SPEAKER: "Drugs evoking hyperprolactinemia" National Congress of the Italian Society of Psychiatry, October 13-17<sup>th</sup> 2018, Torino, Italy
- INVITED CHAIRPERSON: "More than neurons: toward a less neuronocentric view of brain disorders", December 1<sup>st</sup> 2018, Torino (Italy)
- INVITED SPEAKER: "8<sup>th</sup> International Congress on Nutrition & Medicine of the Future" May 18-18 2019 Cluj-Napoca, Romania.

### **Awards:**

- The paper Collino M et al., 2006 (Eur. J. Pharmacol., 530: 70-80, PMID: 16386242) has been awarded as "top-cited research paper published in 2006" from European Journal of Pharmacology
- 13<sup>th</sup> European Shock Society Congress 2009 (Lisbon, Portugal, 24-26 September): Travel Award for oral communication
- 14<sup>th</sup> European Shock Society Congress 2011 (Taormina, Italy, August 31<sup>st</sup> September 2<sup>nd</sup> 2011): Travel Award for oral communication

### **PROJECTS:**

- European Coordinator of 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 (1.086.653 euro)

- Principal Investigator of the European Knowledge Platform on Food, Diet, Intestinal Microbiomics and Human Health (EU ERA-HDHL granted action)
- Principal Investigator of the European Project "Innovative Technological Approaches for validation of Salivary AGEs as novel biomarkers in evaluation of risk factors for diet-related diseases", HDHL-INTIMIC JPI (Tailored Carbohydrate Quality for Personalized Weight Management and Metabolic Health), 2020-2023 (1.100.000 euro)
- Coordinator of the mobility EU programme granted by the Erasmus Plus fellowship programme between University of Turin (Italy) and the Ben-Gurion University of the Negev, Israel (2017-2020)
- Coordinator for the University of Turin of the mobility programme WHRI-ACADEMY fellowship programme (Marie Curie action of the 7th Framework Programme of the European Commission, 2014-2016)
- Principal Investigator of the project "BTK inhibitors as pharmacological tools for diet-induced metabolic diseases" granted by William Harvey Research Limited, London (UK) (2016)
- Principal Investigator of research programmes founded by the University of Turin since 2013

Member of the Committee for the Ph.D. Program in Pharmaceutical and Biomolecular Sciences (Doctoral School of Sciences and Innovative Technologies, University of Turin)

Main supervisor of 3 PhD-students (XXIX, XXXII, XXXV Cycles) and tutor for experimental thesis of 40 Master students in Pharmacy/ Industrial Pharmacy

### **Teaching activity**

- From 2005 to 2017 teacher of the course of Toxicology (Master Degree in Pharmacy, University of Turin)
- Since 2005 teacher of the course of Toxicology (Master Degree in Industrial Pharmacy, University of Turin)
- Since 2017 teacher of the course of Pharmacotherapy (Master Degree in Pharmacy, University of Turin)
- Teaching assignments and lectures under the ERASMUS+ programme at the William Harvey Research Institute of the Queen Mary's University of London, UK (years 2011, 2012, 2013, 2015, 2016, 2017, 2018) and at the Department of Pharmacology and Biochemistry of the Ben Gurion University of the Negev, Israel (years 2018, 2019).
- Teacher of the course of Pharmacotherapy for the following Schools of Specialization of the University of Turin:
  - Hospital Pharmacy
  - Sport Medicine
  - Maxillo Facial Surgery

- Food Science

Massimo Collino

A handwritten signature in blue ink, appearing to read 'Massimo Collino', with a stylized, cursive script.

Torino, February 15th 2022

### Full papers published in international journals with Impact Factor

1. Dianzani C, Lombardi G, **Collino M**, Ferrara C, Cassone MC, Fantozzi R. Priming effects of substance P on calcium changes evoked by interleukin-8 in human neutrophils. *J Leukoc Biol.* 69:1013-1018, 2001
2. Dianzani C., **Collino M.**, Lombardi G., Garbarino G., Fantozzi R. Substance P increases neutrophil adhesion to human umbilical vein endothelial cells. *Br. J. Pharmacol.*, 139: 1103-1110, 2003.
3. Collin M., Rossi A., Cuzzocrea S., Patel NSA., Di Paola R., Hadley J., **Collino M**, Sautebin L., Thiernemann C. Reduction of the multiple organ injury and dysfunction caused by endotoxemia in 5-lipoxygenase knockout mice and by the 5-lipoxygenase inhibitor zileuton. *J. Leukoc. Biol.* 76: 961-970, 2004.
4. **Collino M**, Patel NS, Lawrence KM, Collin M, Latchman DS, Yaqoob MM, Thiernemann C. The selective PPAR $\gamma$  antagonist GW9662 reverses the protection of LPS in a model of renal ischemia-reperfusion. *Kidney Int.*, 68: 529-536, 2005.
5. **Collino M**, Aragno M, Mastrocola R, Gallicchio M, Rosa AC, Dianzani C, Danni O, Thiernemann C, Fantozzi R. Modulation of the oxidative stress and inflammatory response by peroxisome proliferator-activated receptor- $\gamma$  agonists in the hippocampus of rats exposed to cerebral ischemia/reperfusion. *Eur. J. Pharmacol.*, 530: 70-80, 2006.  
**This paper was awarded by European Journal of Pharmacology as “top-cited research paper published in 2006”.**
6. Gallicchio M, Rosa AC, Benetti E, **Collino M**, Dianzani C, Fantozzi R. Substance P-induced cyclooxygenase-2 expression in human umbilical vein endothelial cells. *Brit. J. Pharmacol.*, 147:681-689, 2006.
7. Dianzani C; **Collino M**; Gallicchio M; Samaritani S; Signore G; Menicagli R; Fantozzi R Evaluation of in vitro anti-inflammatory activity of some 2-alkyl-4,6-dimethoxy-1,3,5-triazines. *J. Pharm. Pharmacol.*, 58: 219-226, 2006
8. Dianzani C\*, **Collino M\***, Gallicchio M, Di Braccio M, Roma G, Fantozzi R Effects of anti-inflammatory [1,2,4]triazolo[4,3-a] [1,8]naphthyridine derivatives on human stimulated PMN and endothelial cells: an in vitro study. *J. Inflamm.*, 3: 4-15, 2006. \*  
**\*C. Dianzani and M. Collino are shared first authors of this study.**
9. **Collino M**, Aragno M, Mastrocola R, Benetti E, Gallicchio M, Dianzani C, Danni O, Thiernemann C, Fantozzi R. Oxidative stress and inflammatory response evoked by transient cerebral ischemia/reperfusion: effects of the PPAR-alpha agonist WY14643. *Free Radic Biol Med.* 41:579-589, 2006
10. Patel NS, Cuzzocrea S, **Collino M**, Chatterjee PK, Mazzon E, Britti D, Yaqoob MM, Thiernemann C. The role of cyclooxygenase-2 in the rodent kidney following ischaemia/reperfusion injury in vivo. *Eur J Pharmacol.* 562: 148-154, 2007

11. Gallicchio M, Rosa AC, Dianzani C, Brucato L, Benetti E, **Collino M**, Fantozzi R. Celecoxib decreases expression of the adhesion molecules ICAM-1 and VCAM-1 in a colon cancer cell line (HT29). *Br J Pharmacol.* 2008;153(5):870-8.
12. Dianzani C, Brucato L, Gallicchio M, Rosa AC, **Collino M**, Fantozzi R. Celecoxib modulates adhesion of HT29 colon cancer cells to vascular endothelial cells by inhibiting ICAM-1 and VCAM-1 expression. *Br J Pharmacol.* 2008;153:1153-61.
13. Murch O, Abdelrahman M, **Collino M**, Gallicchio M, Benetti E, Mazzon E, Fantozzi R, Cuzzocrea S, Thiernemann C. Sphingosylphosphorylcholine reduces the organ injury/dysfunction and inflammation caused by endotoxemia in the rat. *Crit Care Med.* 2008; 36:550-9
14. **Collino M**, Thiernemann C, Mastrocola R, Gallicchio M, Benetti E, Miglio G, Castiglia S, Danni O, Murch O, Dianzani C, Aragno M, Fantozzi R. Treatment with the glycogen synthase kinase-3 $\beta$  inhibitor, TDZD-8, affects transient cerebral ischemia/reperfusion injury in the rat hippocampus. *Shock.* 2008; 30:299-307.
15. **Collino M**, Patel NS, Thiernemann C. PPARs as new therapeutic targets for the treatment of cerebral ischemia/reperfusion injury. *Therapeutic Advances in Cardiovascular Disease,* 2008; 2:179-197
16. Tripatara P, Patel NS, **Collino M**, Gallicchio M, Kieswich J, Castiglia S, Benetti E, Stewart KN, Brown PA, Yaqoob MM, Fantozzi R, Thiernemann C. Generation of Endogenous Hydrogen Sulfide by Cystathionine Gamma-Lyase limits the Renal Injury and Dysfunction caused by Ischemia/Reperfusion. *Lab Invest.* 2008; 88:1038-48.
17. Sivarajah A, **Collino M**, Yasin M, Benetti E, Gallicchio M, Mazzon E, Cuzzocrea S, Fantozzi R, Thiernemann C. Anti-apoptotic and anti-inflammatory effects of hydrogen sulphide in a rat model of regional myocardial ischaemia and reperfusion” *Shock,* 2009;31:267-74.
18. **Collino M**, Aragno M, Castiglia S, Tomasinelli C, Thiernemann C, Boccuzzi G, Fantozzi R. Insulin reduces cerebral ischemia/reperfusion injury in the hippocampus of diabetic rats: a role for glycogen synthase kinase-3beta. *Diabetes.* 2009; 58:235-42.
19. Miglio G, Rosa AC, Rattazzi L, **Collino M**, Lombardi G, Fantozzi R. PPARgamma stimulation promotes mitochondrial biogenesis and prevents glucose deprivation-induced neuronal cell loss. *Neurochem Int.* 2009;55:496-504.
20. Aragno M, Tomasinelli CE, Vercellinato I, Catalano MG, **Collino M**, Fantozzi R, Danni O, Boccuzzi G. SREBP-1c in nonalcoholic fatty liver disease induced by Western-type high-fat diet plus fructose in rats. *Free Radic Biol Med.* 2009;47:1067-74.
21. **Collino M**, Castiglia S, Manoni M, Salsini L., Chini J., Masini E., Fantozzi R. Effects of a semi-synthetic N-,O-sulfated glycosaminoglycan K5 polysaccharide derivative in a rat model of cerebral ischemia/reperfusion injury. *Thromb Haemost.* 2009;102:837-45.
22. Kapoor A, **Collino M**, Castiglia S, Fantozzi R, Thiernemann C. Activation of Peroxisome Proliferator-Activated Receptor-beta/delta attenuates myocardial ischemia/reperfusion injury in the rat. *Shock.* 2010;34:117-124.



23. **Collino M**, Aragno M, Castiglia S, Miglio G, Tomasinelli C, Boccuzzi G, Thiemermann C, Fantozzi R. Pioglitazone improves lipid and insulin levels in overweight rats on a high cholesterol and fructose diet by decreasing hepatic inflammation. *Br J Pharmacol.* 2010; 160:1892-902.  
**This paper was highlighted by British Journal of Pharmacology with a commentary (Chatterjee PK., Hepatic inflammation and insulin resistance in pre-diabetes - further evidence for the beneficial actions of PPAR-gamma agonists and a role for SOCS-3 modulation. Br J Pharmacol. 2010;160:1889-1891)**
24. Kapoor A, Shintani Y, **Collino M**, Osuchowski MF, Busch D, Patel NS, Sepodes B, Castiglia S, Fantozzi R, Bishop-Bailey D, Mota-Filipe H, Yaqoob MM, Suzuki K, Bahrami S, Désvergne B, Mitchell JA, Thiemermann C. Protective role of peroxisome proliferator-activated receptor- $\beta/\delta$  in septic shock. *American Journal of Respiratory and Critical Care Medicine.* 2010; 182:1506-1515.
25. Lovell MJ, Yasin M, Lee KL, Cheung KK, Shintani Y, **Collino M**, Sivarajah A, Leung KY, Takahashi K, Kapoor A, Yaqoob MM, Suzuki K, Lythgoe MF, Martin J, Munroe PB, Thiemermann C, Mathur A. Bone marrow mononuclear cells reduce myocardial reperfusion injury by activating the PI3K/Akt survival pathway. *Atherosclerosis.* 2010; 213:67-76
26. Miglio G, Rosa AC, Rattazzi L, Grange C, **Collino M**, Camussi G, Fantozzi R The subtypes of peroxisome proliferator-activated receptors expressed by human podocytes and their role in decreasing podocyte injury. *Br J Pharmacol.* 2011;162:111-125.
27. **Collino M**, Benetti E, Miglio G, Castiglia S, Rosa AC, Aragno M, Thiemermann C, Fantozzi R. Peroxisome proliferator-activated receptor  $\beta/\delta$  agonism protects the kidney against ischemia/reperfusion injury in diabetic rats. *Free Radic Biol Med.* 2011; 50:345-353
28. Patel NS, Nandra KK, Brines M, **Collino M**, Wong WS, Kapoor A, Benetti E, Goh FY, Fantozzi R, Cerami A, Thiemermann C. A non-erythropoietic peptide that mimicks the 3D structure of erythropoietin reduces organ injury/dysfunction and inflammation in experimental hemorrhagic shock. *Mol Med.* 2011 May 13. doi: 10.2119/molmed.2011.00053.
29. Benetti E, Patel NS, **Collino M**. The Role of PPAR $\beta/\delta$  in the Management of Metabolic Syndrome and its Associated Cardiovascular Complications. *Endocr Metab Immune Disord Drug Targets.* 2011;11:273-84.
30. Patel NS, **Collino M**, Yaqoob MM, Thiemermann C. Erythropoietin in the intensive care unit: beyond treatment of anemia. *Ann Intensive Care.* 2011;1:40.
31. Rosa AC, Rattazzi L, Miglio G, **Collino M**, Fantozzi R. Angiotensin II induces tumor necrosis factor- $\alpha$  expression and release from cultured human podocytes *Inflamm Res.* 2012;61:311-317.
32. Nandra KK, Takahashi K, **Collino M**, Benetti E, Wong WS, Goh FY, Suzuki K, Patel NS, Thiemermann C. Acute treatment with bone marrow-derived mononuclear cells attenuates the organ injury/dysfunction induced by hemorrhagic shock in the rat. *Shock.* 2012;37:592-598

33. Patel NS, Kerr-Peterson HL, Brines M, **Collino M**, Rogazzo M, Fantozzi R, Wood EG, Johnson FL, Yaqoob MM, Cerami A, Thiernemann C. Delayed Administration of Pyroglutamate Helix B Surface Peptide (pHBSP), a Novel Nonerythropoietic Analog of Erythropoietin, Attenuates Acute Kidney Injury. *Mol Med*. 2012;18:719-727.
34. **Collino M**, Pini A., Mastroianni R., Benetti E., Lanzi C., Bani D., Chini J., Manoni M., Fantozzi R., Masini E. The non-anticoagulant heparin-like K5 polysaccharide derivative K5-N, OSepi attenuates myocardial ischaemia/reperfusion injury. *J Cell Mol Med* 2012; 16: 2196-2207.
35. Bertinaria M, Rolando B, Giorgis M, Montanaro G, Marini E, **Collino M**, Benetti E, Daniele PG, Fruttero R, Gasco A. Carnosine analogues containing NO-donor substructures: synthesis, physico-chemical characterization and preliminary pharmacological profile. *Eur J Med Chem*. 2012;54:103-12.
36. Rosa AC, Grange C, Pini A, Katebe MA, Benetti E, **Collino M**, Miglio G, Bani D, Camussi G, Chazot PL, Fantozzi R. Overexpression of histamine H4 receptors in the kidney of diabetic rats. *Inflamm Res* 2013; 62:357-365.
37. **Collino M**, Benetti E., Rogazzo M., Mastrocola R., Yaqoob MY., Aragno M., Thiernemann C, Fantozzi R. (2012). Reversal of the deleterious effects of chronic dietary HFCS-55 intake by PPAR- agonism correlates with impaired NLRP3 inflammasome activation. *Biochem Pharmacol*. 2013;85:257-264
38. Nandra KK, **Collino M**, Rogazzo M, Fantozzi R, Patel NS, Thiernemann C. Pharmacological preconditioning with erythropoietin attenuates the organ injury and dysfunction induced in a rat model of hemorrhagic shock. *Dis Model Mech*. 2013;6:701-709.
39. Bangash MN, Patel NS, Benetti E, **Collino M**, Hinds CJ, Thiernemann C, Pearse RM. Dopexamine can attenuate the inflammatory response and protect against organ injury in the absence of significant effects on hemodynamics or regional microvascular flow. *Crit Care*. 2013;17(2):R57
40. Khan AI, Coldewey SM, Patel NS, Rogazzo M, **Collino M**, Yaqoob MM, Radermacher P, Kapoor A, Thiernemann C. Erythropoietin attenuates cardiac dysfunction in experimental sepsis in mice via activation of the  $\beta$ -common receptor. *Dis Model Mech*. 2013;6(4):1021-1030.
41. Coldewey SM, Rogazzo M, **Collino M**, Patel NS, Thiernemann C. Inhibition of I $\kappa$ B kinase reduces the multiple organ dysfunction caused by sepsis in the mouse. *Dis Model Mech*. 2013;6(4):1031-1042.
42. **Collino M**, Pini A, Mugelli N, Mastroianni R, Bani D, Fantozzi R, Papucci L, Fazi M, Masini E. Beneficial effect of prolonged heme oxygenase 1 activation in a rat model of chronic heart failure. *Dis Model Mech*. 2013;6(4):1012-1020.
43. Coldewey SM, Khan AI, Kapoor A, **Collino M**, Rogazzo M, Brines M, Cerami A, Hall P, Sheaff M, Kieswich JE, Yaqoob MM, Patel NS, Thiernemann C. Erythropoietin attenuates acute kidney dysfunction in murine experimental sepsis by activation of the  $\beta$ -common receptor. *Kidney Int*. 2013;84(3):482-90.

**This paper was highlighted by *Kidney International* with a commentary (Masaomi Nangaku. Tissue protection by erythropoietin: new findings in a moving field. *Kidney International* 2013 84:427–429)**

44. 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.
45. Benetti E, Mastrocola R, Rogazzo M, Chiazza F, Aragno M, Fantozzi R, **Collino M\***, Minetto MA\*. High Sugar Intake and Development of Skeletal Muscle Insulin Resistance and Inflammation in Mice: A Protective Role for PPAR-  $\delta$  Agonism. *Mediators Inflamm.* 2013;2013:509502. doi: 10.1155/2013/509502.
46. **\*Collino and Minetto are co-last authors**
47. **Collino M**, Rogazzo M, Pini A, Benetti E, Rosa AC, Chiazza F, Fantozzi R, Bani D, Masini E. Acute treatment with relaxin protects the kidney against ischaemia/reperfusion injury. *J Cell Mol Med.* 2013;17:1494-1505.
48. Mastrocola R, **Collino M**, Rogazzo M, Medana C, Nigro D, Boccuzzi G, Aragno M. Advanced glycation end products promote hepatosteatosis by interfering with SCAP-SREBP pathway in fructose-drinking mice. *Am J Physiol Gastrointest Liver Physiol.* 2013;305:G398-G407.
49. **Collino M**, Rudich A, Konrad D. Mediators of interorgan crosstalk in metabolic inflammation. *Mediators Inflamm.* 2013; 2013:609096.
50. Chen J, Chiazza F, **Collino M**; Patel NSA, Coldewey SM, Thiernemann C. Gender dimorphism of the cardiac dysfunction in murine sepsis: Signalling mechanisms and age-dependency. *PlosOne.* 2014;9(6):e100631.
51. **Collino M**, Mastrocola R, Nigro D, Chiazza F, Aragno M, D'Antona G, Minetto MA. Variability in myosteatosis and insulin resistance induced by high-fat diet in mouse skeletal muscles. *Biomed Res Int.* 2014; 2014:569623.
52. **Collino M**, Benetti E, Rogazzo M, Chiazza F, Mastrocola R, Nigro D, Cutrin JC, Aragno M, Fantozzi R, Minetto MA, Thiernemann C. A non-erythropoietic peptide derivative of erythropoietin decreases susceptibility to diet-induced insulin resistance in mice. *Br J Pharmacol.* 2014 Dec;171(24):5802-15.
53. Bressanello D, Liberto E, **Collino M**, Reichenbach SE, Benetti E, Chiazza F, Bicchi C, Cordero C. Urinary metabolic fingerprinting of mice with diet-induced metabolic derangements by parallel dual secondary column-dual detection two-dimensional comprehensive gas chromatography. *J Chromatogr A.* 2014 Sep 26;1361:265-76.
54. Chiazza F, Chegaev K, Rogazzo M, Cutrin JC, Benetti E, Lazzarato L, Fruttero R, **Collino M**. A nitric oxide-donor furoxan moiety improves the efficacy of edaravone against early renal dysfunction and injury evoked by ischemia/reperfusion. *Oxid Med Cell Longev.* 2015; 2015:804659.

55. Sordi R, Chiazza F, Patel NS, Doyle RA, **Collino M**, Thiernemann C. 'Preconditioning' with low dose lipopolysaccharide aggravates the organ injury/dysfunction caused by hemorrhagic shock in rats. *PLoS One*. 2015; 10(4):e0122096.
56. Mastrocola R, **Collino M**, Nigro D, Chiazza F, D'Antona G, Aragno M, Minetto MA. Accumulation of advanced glycation end-products and activation of the SCAP/SREBP lipogenic pathway occur in diet-induced obese mouse skeletal muscle. *PLoS One*. 2015; 10(3):e0119587.
57. **Collino M**, Thiernemann C, Cerami A, Brines M. Flipping the molecular switch for innate protection and repair of tissues: Long-lasting effects of a non-erythropoietic small peptide engineered from erythropoietin. *Pharmacol Ther*. 2015; 151:32-40. doi: 10.1016/j.pharmthera.2015.02.005.
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72. Baratta F, Simiele M, Pignata I, Beatrice Iozzino, Irene De Pellegrini, Riccardo Torta, Anna De Luca, **Collino M**, D'Avolio A, Paola Brusa. Impact of Different Procedures of Galenic Formulations of Cannabis on Cannabinoids Contents. The International Annual Congress on Controversies on Cannabis-Based Medicines 25-26 June 2018, Vienna, Austria.
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74. Cento Alessia S.; Felicetti F; Mastrocola R; Collotta D; **Collino M**; Aragno M; Brignardello E. Redox unbalance and inflammation in long-term survivors of childhood acute lymphoblastic leukemia Conference: 19th Biennial Meeting of the Society-for-Free-Radical-Research-International (SFRRI) Location: Lisbon, PORTUGAL Date: 2018.
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78. Liberto E, Cordero C., Mastrocola R, Ferrocino I, Chiazza F, Cento AS, Collotta D, Rantsiou K, Aragno M, Cocolin L, Bicchi C, **Collino M**, “Comprehensive two-dimensional gas chromatography as highly informative fingerprinting tool to study the impact of fructose formulation on mice’s microbiota and its volatile metabolome signatures” EuroNutrition 2018. XII Italian Food Chemistry Congress, “Chimali 2018”, September 18-20, 2018 Camerino, Italy
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80. Femminò S, Chiazza F, Collotta D, **Collino M**, Manuela Aragno, Massimo Bertinaria, Pasquale Pagliaro, Claudia Penna. “Do P2Y12 receptor antagonism and NLRP3 inhibition exert additive cardioprotective effects?” 4th SIRC Forum on new roads in cardiovascular research. October 6th 2018, Rome, Italy
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83. Gaudio G, Collotta D, Chiazza F, Mastrocola R, Alessia Cento, Francesca Fava, Aragno M, **Collino M**, Tuohy K. “Advanced glycation end products (AGEs) in metabolic disease: linking diet, inflammation and microbiota” 13th European Nutrition Conference Federation of European Nutrition Societies (FENS) 2019, 15 – 18 October 2019, Dublin, Ireland.
84. Verta R., Berardo C., Siciliano V., Di Pasqua L.G., Collotta D., Nicoletti F., Vairetti M., **Collino M.**, Ferrigno A. “The mGlu5 negative allosteric modulator MPEP protects against cold ischemic injury in rat livers from donor after cardiac death.” 39th Congress of the Italian Society of Pharmacology, 20th-23rd November 2019, Florence, Italy
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