

PERSONAL INFORMATION

Nico Mitro
Nationality: Italian

POSITION

Associate Professor of Biochemistry at the Department of Pharmacological and Biomolecular Sciences of the Università degli Studi di Milano, Milano, Italy and Group Leader at Department of Experimental Oncology of the Istituto Europeo di Oncologia, Milano, Italy

WORK EXPERIENCE

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- 31/3/2017 National Scientific Qualification for the functions of full professor of the competition sector 05/E1 - General Biochemistry. Validity of the qualification from 31/03/2017 to 31/03/2023 (art. 16, paragraph 1, Law 240/10).
- From 09/2011 to 03/2015: Assistant professor of biochemistry. Università degli Studi di Milano, via Festa del Perdono 7, 20122, Milano, Italy. Field of research activity: metabolism.
- From 07/2007 to 08/2011: Postdoctoral fellow.
Università degli Studi di Milano, via Festa del Perdono 7, 20122, Milano, Italy.
Field of research activity: metabolism.
- From 09/2006 to 06/2007: Research associate.
The Scripps Research Institute, 10550 North Torrey Pines Road, La Jolla, CA 92037, USA.
Field of research activity: metabolism.
- From 09/2006 to 06/2007: Post-doc
Genomics Institute of the Novartis Research Foundation, 10675 John Jay Hopkins Drive, San Diego CA 92121.
Field of research activity: metabolism.
- From 11/2004- to 04/2005: Pre-doctoral fellow
Università degli Studi di Milano, via Festa del Perdono 7, 20122, Milano, Italy.
Field of research activity: metabolism.
- From 09/2001- to 08/2004: Laboratory technician (category level D1)
Università degli Studi di Milano, via Festa del Perdono 7, 20122, Milano, Italy.
Field of research activity: metabolism.

EDUCATION AND TRAINING

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- January 30, 2006: Ph.D. in Experimental medicine: Atherosclerosis, Università degli Studi di Siena. Siena, Italy.
Acquisition of laboratory methods and independence in programming and designing the experimental parts.
- February 1, 2001: Degree in Pharmaceutical Biotechnology
Università degli Studi di Milano, via Festa del Perdono 7, 20122, Milano, Italy.
Acquisition of methods and scientific bases applied in the field of pharmaceutical biotechnology.
- July 15, 1995: Diploma of Chemical and Biological Laboratory Technician
State Professional Institute for Industry and Handicraft "A. Pacinotti", Milano, Italy.
Acquisition of practical and theoretical skills for work in chemical and biological laboratories.

PERSONAL SKILLS

Mother tongue Italian

Other language	UNDERSTANDING		SPEAKING		WRITING
	Reading	Spoken interaction	Spoken production	Reading	Spoken interaction
English	Excellent	Excellent	Excellent	Excellent	Excellent

Communication skills ▪ Good communication skills acquired during my teaching and research experience.

Organisational / managerial skills ▪ Supervisor of a team of 2 people: a PhD student in Biochemistry and a post-doctoral fellow.

Digital skills ▪ Excellent skills in managing Microsoft Office package (excel, word and power point), data analysis and statistical processing software (Prism GraphPad) and software for the analysis of data originating from “omics” experiments (RNA-Seq, metabolomics and proteomics).

ADDITIONAL INFORMATION

Publications Prof. Mitro is the author of 128 scientific publications in international journals and are available at orcid.org or www.scopus.com searching for ORCID ID 0000-0002-5000-3619 and Scopus Author ID 6506384818, respectively.

Bibliometric parameters.

Indice di Hirsch (Scopus)	Totale Citazioni (escluse le autocitazioni)	Media Citazioni
40	4102	24,2

Detailed list of peer-reviewed original articles.

1. De Fabiani E., Mitro N., Anzulovich A.C., Pinelli A., Galli G., Crestani M. “The negative effects of bile acids and tumor necrosis factor- α on the transcription of cholesterol 7 α -hydroxylase gene (CYP7A1) converge to hepatic nuclear factor-4”. *The Journal of Biological Chemistry*, 2001 Aug. 17; 276(33): 30708-30716. Impact Factor: 7,258.

2. Bellosta S., Dell'Agli M., Canavesi M., Mitro N., Monetti M., Crestani M., Verotta L., Fuzzati N., Bernini F., Bosisio E. “Inhibition of metalloproteinase-9 activity and gene expression by polyphenolic compounds isolated from the bark of *Tristaniopsis calobuxus* (Myrtaceae)”. *Cellular and Molecular Life Sciences*, 2003 Jul.; 60(7): 1440-1448. Impact Factor: 4,995.

3. De Fabiani E. *, Mitro N. *, Gilardi F, Caruso D, Galli G, Crestani M. "Coordinated control of cholesterol catabolism to bile acids and of gluconeogenesis via a novel mechanism of transcription regulation linked to the fasted-to-fed cycle". *The Journal of Biological Chemistry*, 2003 Oct. 3; 278(40): 39124-39132. Impact Factor: 6,482. *Both first authors.
4. Caruso D., Crestani M., Da Riva L., Mitro N., Giavarini F., Mozzi R., Franzini C. "Mass spectrometry and DNA sequencing are complementary techniques for the characterisation of haemoglobin variants: the example of haemoglobin J-Oxford". *Haematologica*, 2004 May; 89: 608-609. Impact Factor: 4,192.
5. Trincavelli M.L., Marroni M., Tuscano D., Ceruti S., Mazzola A., Mitro N., Abbracchio M.P., Martini C. "Regulation of A2b adenosine receptor functioning by tumor necrosis factor alpha in human astroglial cells". *The Journal of Neurochemistry*, 2004 Dec.; 91(5):1180-90. Impact Factor: 4,824.
6. Caruso D., Crestani M., Mitro N., Da Riva L., Mozzi R., Sarpau S., Merlotti C., and Franzini C. "High pressure liquid chromatography and electrospray ionization mass spectrometry are advantageously integrated into a two-levels approach to detection and identification of haemoglobin variants". *Clinical and Laboratory Haematology*, 2005 Apr.; 27(2):111-9. Impact Factor: 0,846.
7. Pinelli A., Godio C., Laghezza A., Mitro N., Fracchiolla G., Tortorella V., Lavecchia A., Novellino E., Fruchart J.C., Staels B., Crestani M., and Liodice F. "Synthesis, biological evaluation, and molecular modeling investigation of new chiral fibrates with PPARalpha and PPARgamma agonist activity". *The Journal of Medicinal Chemistry*, 2005 Aug. 25; 48(17):5509-19. Impact Factor: 4,926.
8. Bertolotti M., Gabbi C., Anzivino C., Mitro N., Godio C., De Fabiani E., Crestani M., Del Puppo M., Ricchi M., Carulli L., Rossi A., Loria P., Carulli N. "Decreased hepatic expression of PPAR- γ coactivator-1 in cholesterol cholelithiasis". *European Journal of Clinical Investigation*, 2006 Mar.; 36(3): 170-175. Impact Factor: 2,847.
9. Dell'Agli M., Fagnani R., Mitro N., Scurati S., Masciadri M., Mussoni L., Galli G.V., Bosisio E., Crestani M., De Fabiani E., Tremoli E., Caruso D. "Minor components of olive oil modulate proatherogenic adhesion molecules involved in endothelial activation". *The Journal of Agricultural and Food Chemistry*, 2006 May; 54(9): 3259-64. Impact Factor: 2,322.
10. Mitro N., Mak P.A., Vargas L., Godio C., Hampton E., Molteni V., Kreuzsch A., Saez E. "The nuclear receptor LXR is a glucose sensor". *Nature*, 2007 Jan. 11; 445(7124): 219-223. Impact Factor: 28,751.
11. Mitro N., Vargas L., Romeo R., Koder A. and Saez E. "T0901317 is a potent PXR ligand: Implications for the biology ascribed to LXR". *FEBS Letters*, 2007 May 1; 581(9): 1721-6. Impact Factor: 3,263.
12. Waki H., Park K.W., Mitro N., Pei L., Damoiseaux R., Wilpitz D.C., Reue K., Saez E. and Tontonoz P. "The small molecule harmine is an antidiabetic cell-type-specific regulator of PPARgamma expression". *Cell Metabolism*, 2007 May; 5(5): 357-70. Impact Factor: 17,148.

13. Bertolotti M., Gabbi C., Anzivino C., Crestani M., Mitro N., Del Puppo M., Godio C., De Fabiani E., Macchioni D., Carulli L., Rossi A., Ricchi M., Loria P., Carulli N. "Age-related changes in bile acid synthesis and hepatic nuclear receptor expression". *European Journal of Clinical Investigation*, 2007 Jun.; 37(6): 501-8. Impact Factor: 2,701.
14. Pochetti G., Godio C., Mitro N., Caruso D., Galmozzi A., Scurati S., Liodice F., Fracchiolla G., Tortorella P., Laghezza A., Lavecchia A., Novellino E., Mazza F., Crestani M. "Insights into the mechanism of partial agonism: crystal structures of the peroxisome proliferator-activated receptor gamma ligand-binding domain in the complex with two enantiomeric ligands". *The Journal of Biological Chemistry*, 2007 Jun. 8; 282(23): 17314-24. Impact Factor: 5,581.
15. Molteni V., Li X., Nabakka J., Liang F., Wityak J., Koder A., Vargas L., Romeo R., Mitro N., Mak P.A., Seidel H.M., Haslam J.A., Chow D., Tuntland T., Spalding T.A., Brock A., Bradley M., Castrillo A., Tontonoz P., Saez E. "N-Acylthiadiazolines, a new class of Liver X Receptor agonists with selectivity for LXRβ". *The Journal of Medicinal Chemistry*, 2007 Aug. 23; 50(17):4255-9. Impact Factor: 4,895.
16. Mitro N.*, Godio C.*, De Fabiani E., Scotti E., Galmozzi A., Gilardi F., Caruso D., Vigil Chacon A.B., Crestani M. "Insights in the regulation of cholesterol 7α-hydroxylase gene reveal a target for modulating bile acid synthesis". *Hepatology*, 2007 Sep.; 46(3):885-97. Impact Factor: 10,734. *Both first authors.
17. Commerford S.R., Vargas L., Dorfman S.E., Mitro N., Rocheford E.C., Mak P.A., Li X., Kennedy P., Mullarkey T.L., Saez E. "Dissection of the insulin-sensitizing effect of Liver X Receptor ligands". *Molecular Endocrinology*, 2007 Dec.; 21(12):3002-1. Impact Factor: 5,337.
18. Wu C., Delano D.L., Mitro N., Su S.V., Janes J., McClurg P., Batalov S., Welch G.L., Zhang J., Orth A.P., Walker J.R., Glynne R.J., Cooke M.P., Takahashi J.S., Shimomura K., Kohsaka A., Bass J., Saez E., Wiltshire T., Su A.I. "Gene set enrichment in eQTL data identifies novel annotations and pathway regulators". *PLoS Genetics*, 2008 May 9; 4(5):e1000070. Impact Factor: 8,883.
19. Sironi L.*, Mitro N.*, Cimino M., Gelosa P., Guerrini U., Tremoli E. and Saez E. "Treatment with LXR agonists after focal cerebral ischemia prevents brain damage". *FEBS Letters*, 2008 Oct. 15; 582(23-24):3396-400. Impact Factor: 3,264. *Both first authors.
20. Mai A., Valente S., Meade S., Carafa V., Tardugno M., Nebbioso A., Galmozzi A., Mitro N., De Fabiani E., Altucci L. and Kazantsev A. "Study of 1,4-dihydropyridine structural scaffold: discovery of novel sirtuin activators and inhibitors". *The Journal of Medicinal Chemistry*, 2009 Sep 10; 52(17):5496-504. Impact Factor: 4,802.
21. Zhu J., Mounzih K., Chehab E.F., Mitro N., Saez E., Chehab F.F. "Effects of FoxO4 overexpression on cholesterol biosynthesis, triacylglycerol accumulation, and glucose uptake". *The Journal of Lipid Research*, 2010 Jun.; 51(6):1312-24. Impact Factor: 6,115.
22. Pochetti G.*, Mitro N.*, Lavecchia A., Gilardi F., Besker N., Scotti E., Aschi M., Re N., Fracchiolla G., Laghezza A., Tortorella P., Montanari R., Novellino E., Mazza F., Crestani M., Liodice F. "Structural insight into peroxisome proliferator-activated receptor gamma binding of two ureidofibrate-like enantiomers by molecular dynamics, cofactor interaction analysis, and site-directed mutagenesis". *The Journal of Medicinal Chemistry*, 2010 Jun. 10; 53(11):4354-66. Impact Factor: 5,207. *Both first authors.

23. Cermenati G., Giatti S., Cavaletti G., Bianchi R., Maschi O., Pesaresi M., Abbiati F., Volonterio A., Saez E., Caruso D., Melcangi R.C.*, Mitro N.* “Activation of the Liver X Receptor increases neuroactive steroid levels and protects from diabetes-induced peripheral neuropathy”. *The Journal of Neuroscience*, 2010 Sep. 8, 30(36):11896 -11901. Impact Factor: 7,271. *Both corresponding authors.
24. Porcelli L., Gilardi F., Laghezza A., Piemontese L., Mitro N., Azzariti A., Altieri F., Cervoni L., Fracchiolla G., Giudici M., Guerrini U., Lavecchia A., Montanari R., Di Giovanni C., Paradiso A., Pochetti G., Simone G.M., Tortorella P., Crestani M., Loiodice F. “Synthesis, characterization and biological evaluation of ureidofibrate-like derivatives endowed with peroxisome proliferator-activated receptor activity”. *The Journal of Medicinal Chemistry*, 2012 Jan 12;55(1):37-54. Impact Factor: 5,614.
25. Cermenati G., Abbiati F., Cermenati S., Brioschi E., Volonterio A., Cavaletti G., Saez E., De Fabiani E., Crestani M., Garcia-Segura L.M., Melcangi R.C., Caruso D.*, Mitro N.* “Diabetes-induced myelin abnormalities are associated with an altered lipid pattern: protective effects of LXR activation”. *The Journal of Lipid Research*, 2012 Feb;53(2):300-10. Impact Factor: 4,386. *Both corresponding authors.
26. Mitro N., Cermenati G., Giatti S., Abbiati F., Pesaresi M., Calabrese D., Garcia-Segura L.M., Caruso D., Melcangi R.C. “LXR and TSPO as new therapeutic targets to increase the levels of neuroactive steroids in the central nervous system of diabetic animals”. *Neurochemistry International*, 2012 May;60(6):616-21. Impact Factor: 2,659.
27. Campia I., Sala V., Kopecka J., Leo C., Mitro N., Costamagna C., Caruso D., Pescarmona G., Crepaldi T., Ghigo D., Bosia A., Riganti C. “Digoxin and ouabain induce the efflux of cholesterol via liver X receptor signalling and the synthesis of ATP in cardiomyocytes”. *Biochemical Journal*, 2012 Oct 15;447(2):301-11. Impact Factor: 4,654.
28. Galmozzi A.*, Mitro N.*, Ferrari A., Gers E., Gilardi F., Godio C., Cermenati G., Gualerzi A., Donetti E., Rotili D., Valente S., Guerrini U., Caruso D., Mai A., Saez E., De Fabiani E., Crestani M. “Inhibition of class I histone deacetylases unveils a mitochondrial signature and enhances oxidative metabolism in skeletal muscle and adipose tissue”. *Diabetes*. 2013 Mar;62(3):732-42. Impact Factor: 8,474. *Both first authors.
29. Gilardi F., Giudici M., Mitro N., Maschi O., Guerrini U., Rando G., Maggi A., Cermenati G., Laghezza A., Loiodice F., Pochetti G., Lavecchia A., Caruso D., De Fabiani E., Bamberg K., Crestani M. “LT175 is a novel PPAR α/γ ligand with potent insulin-sensitizing effects and reduced adipogenic properties”. *The Journal of Biological Chemistry*, 2014 Mar 7;289(10):6908-20. Impact Factor: 4,573.
30. Di Gregorio E., Borroni B., Giorgio E., Lacerenza D., Ferrero M., Lo Buono N., Ragusa N., Mancini C., Gaussen M., Calcia A., Mitro N., Hoxha E., Mura I., Coviello D.A., Moon Y.A., Tesson C., Vaula G., Couarch P, Orsi L., Duregon E., Papotti M.G., Deleuze J.F., Imbert J., Costanzi C., Padovani A., Giunti P., Maillet-Vioud M., Durr A., Brice A., Tempia F., Funaro A., Boccone L., Caruso D., Stevanin G., Brusco A. “ELOVL5 Mutations Cause Spinocerebellar Ataxia 38”. *American Journal of Human Genetics*, 2014 Aug 7;95(2):209-17. Impact Factor: 10,931.
31. Mitro N., Cermenati G., Brioschi E., Abbiati F., Audano M., Giatti S., Crestani M., De Fabiani E., Azcoitia I., Garcia-Segura L.M., Caruso D., Melcangi R.C. “Neuroactive steroid treatment modulates myelin lipid profile in diabetic peripheral neuropathy”. *The Journal of Steroid Biochemistry and Molecular Biology*, 2014 Sep;143:115-21. Impact Factor: 3,628.

32. Muto E., Dell'Agli M., Sangiovanni E., Mitro N., Fumagalli M., Crestani M., De Fabiani E., Caruso D. "Olive oil phenolic extract regulates interleukin-8 expression by transcriptional and posttranscriptional mechanisms in Caco-2 cells". *Molecular Nutrition and Food Research*, 2015 Jun;59(6):1217-21. Impact Factor: 4,551.
33. Giatti S., Rigolio R., Romano S., Mitro N., Viviani B., Cavaletti G., Caruso D., Garcia-Segura L.M., Melcangi RC. "Dihydrotestosterone as a Protective Agent in Chronic Experimental Autoimmune Encephalomyelitis". *Neuroendocrinology*, 2015;101(4):296-308. Impact Factor: 2,583.
34. Cermenati G., Audano M., Giatti S., Carozzi V., Porretta-Serapiglia C., Pettinato E., Ferri C., D'Antonio M., De Fabiani E., Crestani M., Scurati S., Saez E., Azcoitia I., Cavaletti G., Garcia-Segura L.M., Melcangi R.C., Caruso D.*, Mitro N.* "Lack of sterol regulatory element binding factor-1c imposes glial Fatty Acid utilization leading to peripheral neuropathy". *Cell Metabolism*, 2015 Apr 7;21(4):571-83. Impact Factor: 17,303. *Both corresponding authors.
35. Dinamarca M.C., Guzzetti F., Karpova A., Lim D., Mitro N., Musardo S., Mellone M., Marcello E., Stanic J., Samaddar T., Burguière A., Caldarelli A., Genazzani A.A., Perroy J., Fagni L., Canonico P.L., Kreutz M.R., Gardoni F., Di Luca M. "Ring finger protein 10 is a novel synaptonuclear messenger encoding activation of NMDA receptors in hippocampus". *Elife*, 2016 Mar 15;5:e12430. Impact Factor: 7,725.
36. Della Torre S., Mitro N., Fontana R., Gomaraschi M., Favari E., Recordati C., Lolli F., Quagliarini F., Meda C., Ohlsson C., Crestani M., Uhlénhaut N.H., Calabresi L., Maggi A. "An Essential Role for Liver ER α in Coupling Hepatic Metabolism to the Reproductive Cycle". *Cell Reports*, 2016 Apr 12;15(2):360-71. Impact Factor: 8,282.
37. Borroni B., Di Gregorio E., Orsi L., Vaula G., Costanzi C., Tempia F., Mitro N., Caruso D., Manes M., Pinessi L., Padovani A., Brusco A., Boccone L. "Clinical and neuroradiological features of spinocerebellar ataxia 38 (SCA38)". *Parkinsonism and Related Disorders*, 2016 Jul;28:80-6. Impact Factor: 4,484.
38. Pham H.T., Arnhard K., Asad Y.J., Deng L., Felder T.K., St John-Williams L., Kaefer V., Leadley M., Mitro N., Muccio S., Prehn C., Rauh M., Rolle-Kampczyk U., Thompson J.W., Uhl O., Ulaszewska M., Vogeser M., Wishart D.S., Koal T. "Inter-Laboratory Robustness of Next-Generation Bile Acid Study in Mice and Humans: International Ring Trial Involving 12 Laboratories". *Journal of Applied Laboratory Medicine*. 2016 Sep 1;1(2):129-142. Impact Factor: Not available.
39. Ferrari A., Fiorino E., Longo R., Barilla S., Mitro N., Cermenati G., Giudici M., Caruso D., Mai A., Guerrini U., De Fabiani E., Crestani M. "Attenuation of diet-induced obesity and induction of white fat browning with a chemical inhibitor of histone deacetylases". *International Journal of Obesity (Lond)*, 2017 Feb;41(2):289-298. Impact Factor: 5,159.
40. Romano S., Mitro N., Diviccaro S., Spezzano R., Audano M., Garcia-Segura L.M., Caruso D., Melcangi R.C. "Short-term effects of diabetes on neurosteroidogenesis in the rat hippocampus". *The Journal of Steroid Biochemistry and Molecular Biology*, 2017 Mar;167:135-143. Impact Factor: 4,095.

41. Cermenati G., Giatti S., Audano M., Pesaresi M., Spezzano R., Caruso D., Mitro N., Melcangi R.C*. “Diabetes alters myelin lipid profile in rat cerebral cortex: Protective effects of dihydroprogesterone”. *The Journal of Steroid Biochemistry and Molecular Biology*, 2017 Apr;168:60-70. Impact Factor: 4,095. *Both corresponding authors.
42. Mauro C., Smith J., Cucchi D., Coe D., Fu H., Bonacina F., Baragetti A., Cermenati G., Caruso D., Mitro N., Catapano A.L., Ammirati E., Longhi M.P., Okkenhaug K., Norata G.D., Marelli-Berg F.M. “Obesity-Induced Metabolic Stress Leads to Biased Effector Memory CD4+ T Cell Differentiation via PI3K p110 δ -Akt-Mediated Signals”. *Cell Metabolism*, 2017 Mar 7;25(3):593-609. Impact Factor: 20,565.
43. Benedusi V., Della Torre S., Mitro N., Caruso D., Oberto A., Tronel C., Meda C., Maggi A. “Liver ER α regulates AgRP neuronal activity in the arcuate nucleus of female mice”. *Scientific Reports*, 2017 Apr 26;7(1):1194. Impact Factor: 4,122.
44. Mitro N., Cermenati G., Audano M., Giatti S., Pesaresi M., Pedretti S., Spezzano R., Caruso D., Melcangi RC. “Sterol regulatory element binding protein-1C knockout mice show altered neuroactive steroid levels in sciatic nerve”. *The Journal of Neurochemistry*, 2017 Aug;142(3):420-428. Impact Factor: 4,609.
45. Castella B., Kopecka J., Sciancalepore P., Mandili G., Foglietta M., Mitro N., Caruso D., Novelli F., Riganti C., Massaia M. “The ATP-binding cassette transporter A1 regulates phosphoantigen release and V γ 9V δ 2 T cell activation by dendritic cells”. *Nature Communications*, 2017 Jun 5;8:15663. Impact Factor: 12,353.
46. Ferrari A., Longo R., Fiorino E., Silva R., Mitro N., Cermenati G., Gilardi F., Desvergne B., Andolfo A., Magagnotti C., Caruso D., Fabiani E., Hiebert S.W., Crestani M. “HDAC3 is a molecular brake of the metabolic switch supporting white adipose tissue browning”. *Nature Communications*, 2017 Jul 21;8(1):93. Impact Factor: 12,353.
47. Manes M., Alberici A., Di Gregorio E., Boccone L., Premi E., Mitro N., Pasolini M.P., Pani C., Paghera B., Perani D., Orsi L., Costanzi C., Ferrero M., Zoppo A., Tempia F., Caruso D., Grassi M., Padovani A., Brusco A., Borroni B. “Docosahexaenoic acid is a beneficial replacement treatment for spinocerebellar ataxia 38”. *Annals of Neurology*, 2017 Oct;82(4):615-621. Impact Factor: 10,252.
48. Hoxha E., Gabriele R.M.C., Balbo I., Ravera F., Masante L., Zambelli V., Albergo C., Mitro N., Caruso D., Di Gregorio E., Brusco A., Borroni B., Tempia F. “Motor Deficits and Cerebellar Atrophy in Elovl5 Knock Out Mice”. *Frontiers in Cellular Neuroscience*, 2017 Oct 30;11:343. Impact Factor: 4,300.
49. Buratta S., Urbanelli L., Sagini K., Giovagnoli S., Caponi S., Fioretto D., Mitro N., Caruso D., Emiliani C. “Extracellular vesicles released by fibroblasts undergoing H-Ras induced senescence show changes in lipid profile”. *PLoS One*, 2017 Nov 28;12(11):e0188840. Impact Factor: 2,766.
50. Manzine P.R., Pelucchi S., Horst M.A., Vale F.A.C., Pavarini S.C.I., Audano M., Mitro N., Di Luca M., Marcello E., Cominetti M.R. “microRNA 221 Targets ADAM10 mRNA and is Downregulated in Alzheimer’s Disease”. *The Journal of Alzheimer’s Disease*, 2018;61(1):113-123. Impact Factor: 3,476.
51. Gennari C.G., Cilurzo F., Mitro N., Caruso D., Minghetti P., Magnaghi V. “In vitro and in vivo evaluation of silk fibroin functionalized with GABA and allopregnanolone for Schwann cell and neuron survival”. *Regenerative Medicine*, 2018 Mar;13(2):141-157. Impact Factor: 2,992.

52. Romano S., Mitro N., Giatti S., Diviccaro S., Pesaresi M., Spezzano R., Audano M., Garcia-Segura L.M., Caruso D., Melcangi R.C. "Diabetes induces mitochondrial dysfunction and alters cholesterol homeostasis and neurosteroidogenesis in the rat cerebral cortex". *The Journal of Steroid Biochemistry and Molecular Biology*, 2018 Apr;178:108-116. Impact Factor: 4,095.
53. Castiglioni L., Pignieri A., Fiaschè M., Giudici M., Crestani M., Mitro N., Abbate M., Zoja C., Rottoli D., Foray C., Fiordaliso F., Guerrini U., Tremoli E., Sironi L., Gelosa P. "Fenofibrate attenuates cardiac and renal alterations in young salt-loaded spontaneously hypertensive stroke-prone rats through mitochondrial protection". *The Journal of Hypertension*, 2018 May;36(5):1129-1146. Impact Factor: 4,099.
54. Pesaresi M., Giatti S., Spezzano R., Romano S., Diviccaro S., Borsello T., Mitro N., Caruso D., Garcia-Segura L.M., Melcangi R.C. "Axonal transport in a peripheral diabetic neuropathy model: sex-dimorphic features". *Biology of Sex Differences*, 2018 Jan 19;9(1):6. Impact Factor: 3,543.
55. Tatulli G., Mitro N., Cannata S.M., Audano M., Caruso D., D'Arcangelo G., Lettieri-Barbato D., Aquilano K. "Intermittent Fasting Applied in Combination with Rotenone Treatment Exacerbates Dopamine Neurons Degeneration in Mice". *Frontiers in Cellular Neuroscience*, 2018 Jan 17;12:4. Impact Factor: 4,300.
56. Audano M., Pedretti S., Cermenati G., Brioschi E., Diaferia G.R., Ghisletti S., Cuomo A., Bonaldi T., Salerno F., Mora M., Grigore L., Garlaschelli K., Baragetti A., Bonacina F., Catapano A.L., Norata G.D., Crestani M., Caruso D., Saez E., De Fabiani E.*, Mitro N.* "Zc3h10 is a novel mitochondrial regulator". *EMBO Reports*, 2018 Apr;19(4). pii: e45531. Impact Factor: 8,749. *Both corresponding authors.
57. Collino A., Termanini A., Nicoli P., Diaferia G., Polletti S., Recordati C., Castiglioni V., Caruso D., Mitro N.*, Natoli G*, Ghisletti S*. "Sustained activation of detoxification pathways promotes liver carcinogenesis in response to chronic bile acid-mediated damage". *PLoS Genetics*, 2018 May 7;14(5):e1007380. Impact Factor: 5,540. *Corresponding authors.
58. Della Torre S., Mitro N., Meda C., Lolli F., Pedretti S., Barcella M., Ottobrini L., Metzger D., Caruso D., Maggi A. "Short-Term Fasting Reveals Amino Acid Metabolism as a Major Sex-Discriminating Factor in the Liver". *Cell Metabolism*, 2018 Aug 7;28(2):256-267. Impact Factor: 20,565.
59. Pacella I., Procaccini C., Focaccetti C., Miacci S., Timperi E., Faicchia D., Severa M., Rizzo F., Coccia E.M., Bonacina F., Mitro N., Norata G.D., Rossetti G., Ranzani V., Pagani M., Giorda E., Wei Y., Matarese G., Barnaba V., Piconese S. "Fatty acid metabolism complements glycolysis in the selective regulatory T cell expansion during tumor growth". *Proceedings of the National Academy of Science of the United States of America*, 2018 Jul 10;115(28):E6546-E6555. Impact Factor: 9,504.
60. Bonacina F., Coe D., Wang G., Longhi M.P., Baragetti A., Moregola A., Garlaschelli K., Uboldi P., Pellegatta F., Grigore L., Da Dalt L., Annoni A., Gregori S., Xiao Q., Caruso D., Mitro N., Catapano A.L., Marelli-Berg F.M., Norata G.D. "Myeloid apolipoprotein E controls dendritic cell antigen presentation and T cell activation". *Nature Communications*, 2018 Aug 6;9(1):3083. Impact Factor: 12,353.

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Book Chapters:

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2. Mitro N, Gilardi F, Giudici M, Godio C, Scotti E, Crestani M. “Site-directed mutagenesis to study the role of specific amino acids in the ligand binding domain of PPARs”. *Methods in Molecular Biology*. 2013;952:137-44.
3. Mitro N, Godio C, Crestani M. “Fluorescence resonance energy transfer techniques to study ligand-mediated interactions of PPARs with coregulators”. *Methods in Molecular Biology*. 2013;952:219-27.

Presentations and Seminars

Seminars at Universities and National and International Institutes, over 20 invitations to International and National Conferences.

Memberships

Prof. Mitro is a member of the following scientific societies:

From 2017	Società Chimica Italiana (SCI) - divisione Spettrometria di Massa
From 2016	European Atherosclerosis Society (EAS)
From 2015	International Society for Neurochemistry (ISN)
From 2015	European Society for Neurochemistry (ESN)
From 2013	Federation of European Neuroscience Societies (FENS)
From 2012	European Association for the Study of Diabetes (EASD)
From 2004	Federation of European Biochemical Societies (FEBS)
From 2004	Società Italiana di Biochimica e Biologia Molecolare (SIB)
From 2001	Società Italiana per lo Studio dell’Aterosclerosi (SISA)

Research activities

Since 2017 Prof. Mitro has been a member of the board of the European Society for Neurochemistry (ESN).

Since 2015 Prof. Mitro is a member of the board of the Italian Society for the Study of Atherosclerosis (SISA) Lombardy section.

Personal data processing

I authorize the processing of my personal data in accordance with Legislative Decree no. 196 of 30 June 2003 (Personal Data Protection Code) and its subsequent amendments and additions, as well as EU Regulation 679/2016 (General Regulation on Data Protection or, more briefly, RGPD).