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PROFESSIONAL ADDRESS  Department of Medicine
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Nationality Italian

POSITION TITLE
- **Director** of the **Clinical Unit of Internal Medicine B**, University Hospital, Policlinic G.B. Rossi, Verona, Italy
- **Director of the Medical School of Specialization in Allergology and Clinical Immunology (SSD MEDS-05/A)**, at the University of Verona School of Medicine
- **Full Professor of Internal Medicine SSD MEDS-05/A**, at the University of Verona School of Medicine

WORK EXPERIENCES

- October 2025 to present: Elected **member of the Board of the National College of Internal Medicine Professors (COLMED)**
- October 2024 to present: **Director of the School of Specialization in Internal Medicine (SSD MEDS-05/A, Internal Medicine)** for the three-year period 2024-2027, University of Verona
- 2021 December-present: **Director** pro tempore of the **Clinical Unit of Internal Medicine B**, Integrated University Hospital (**Azienda Ospedaliera Universitaria Integrata Verona**), Policlinic G.B. Rossi, Department of Medicine, University of Verona School of Medicine
- 2022 June-present (Decreto Rettoriale nr. 5936 del 30 giugno 2022): **Director of the Medical School of Specialization in Allergology and Clinical Immunology (SSD MED/09)**, at the University of Verona School of Medicine
- 2021 March-2022 June: **Direttore pro tempore della Scuola di Specializzazione in Allergologia ed Immunologia Clinica (SSD MED 09, Medicina Interna)**, Università degli Studi di Verona
- 2021 March-September 2021: **Vice Director** (Prof. O. Olivieri) of the **Complex Clinical Unit of Internal Medicine B**, Integrated University Hospital, Policlinic G.B. Rossi, Department of Medicine, University of Verona School of Medicine
- 2020 December/January and 2021 March-May, **Responsible coordinator of Covid Unit di Unità Covid the Complex Clinical Unit of Internal Medicine B**, Integrated University Hospital, Policlinic G.B. Rossi, Department of Medicine, University of Verona School of Medicine
- 2014-present: **Associate Professor of Internal Medicine**, University of Verona School of Medicine (SSD MED/09)
- 2013-present: Coordinator **High Specialization Unit in "Diagnosis and therapy of nutritional disorders** (Delibera n.452 del 20/6/2013, Prot.n.33637 del 18/7/13).
- 2009-current: Member of the Verona **University Hospital Commission for Scientific Research and Innovation** ("Nucleo Ricerca ed Innovazione", NRI) (n. 585, 11/5/2009, Prot. n. 21240, 19/5/2009)
- 2006-present: **Scientific Chief of the "Epigenomics and gene-nutrient interaction" Laboratory** of the **University Laboratory for Medical Research, LURM** (<http://lurm.it/it/laboratories/>; <http://lurm.it/it/staff/?keywords=none&l=epigenetica-e-studio-delle-interazioni-gene-nutrienti>)
- 2005-present: **Physician, Section of Immunohaematologic and Haemocoagulative Disorders, Section of Internal Medicine** (n. 937, 9.06.05, Prot. N. 22177 Tit. VII/6, 24.6.05), **University Hospital, Azienda Ospedaliera Universitaria Integrata Verona**
- 2005-2014: **Assistant Professor of Internal Medicine**, University of Verona School of Medicine (SSD MED/09)
- 2003-2005: **post-doc Fellowship**, University of Verona School of Medicine (SSD MED/09)
- 1998-2001: **Visiting Scientist**, Jean Mayer USDA Human Nutrition Research Center on Aging at **Tufts University, Boston, MA, USA**
- 2001-2003: **Research Associate**, Jean Mayer USDA Human Nutrition Research Center on Aging at **Tufts University, Boston, MA, USA**
- 1991-1996: Internship and residency in Internal Medicine and postgraduate research fellowship, University of Verona School of Medicine (SSD MED/09)
- 1996-1998: Instructor Internal Medicine and Genetics, University of Verona School of Medicine

EDUCATION AND TRAINING

- 1991: **Medical Degree in Medicine and Surgery**, *summa cum laude*, University of Verona School of Medicine
- 1996: **Specialization in Internal Medicine**, *summa cum laude*, University of Verona School of Medicine
- 2002: **PhD in Experimental Haematology**, with *academic mention award*, University of Milan School of Medicine
- 2022: **Healthcare Management Program**, **SDA Bocconi School of Management**, Bocconi University, Milan

AWARDS and HONORS

- 2002, International **Hamish N. Munro** Postdoctoral Fellowship Award for outstanding scientific research "Folate Metabolism, Genetics and DNA methylation", **Boston, MA, USA**.
- 2005, Procacci C. Research Scientist Award "Gene-nutrient interactions and epigenetics", **Italy**
- 2006, Director's International Scientific Recognition Award for **Excellence** in scientific impact in "Gene-nutrient interactions and Epigenetics", **Boston, MA, USA**
- 2015, **Award Diet and Cancer RIS for best scientific presentation at EB Experimental Biology FASEB Boston, MA USA**

PUBLICATIONS AND BIBLIOMETRIC INDEXES

- **Editor of two invited books** by CRC Press, USA) and author of about **20 book chapters** (by CRC Press, Wiley and Sons, Elsevier Inc.), two *special invited issues* on topics related to Epigenetics, nutrition and gene-nutrient interactions published, on *Molecular Aspects of Medicine*; author of **more than 90 scientific publications in extenso** on **International peer-review Journals** classified by ISI Web of Science among which *The New England Journal of Medicine, Proceedings of the National Academy of Sciences, USA; Circulation; Analytical Chemistry; BBA; Journal of Medical Genetics, Hepatology*.
- **H-index**, as follows:
 - ISI Web of Science: 45, citations 7658, without self citations 7300, average citation per item 35,03
 - Scopus: 46, citations 8055, without self citations 7031
 - Google Scholar: 55; citations 12686; i10-index 118
 A paper cited more 1100 times and one more than 600 times; 2 more than 400 times and 15 papers around 300 times.
- **Enclosed in the Top Italian Scientists list** (<http://www.topitalianscientists.org>)

PERSONAL SKILLS

Mother tongue Italian

Other languages	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C2	C2	C2
Spanish	C2	C2	C2	C1	C1

Main Research interests

- Epigenetics and gene-nutrient interactions with a special focus on the role of one-carbon nutrients as vitamin B9, B6 and B12 that, as donors of methyl groups, serve for methylation reactions including that of DNA and histones, major epigenetic phenomena in mammalian cells.
- Study of the effects of B vitamins and gene-nutrient interactions on epigenetic mechanisms by using different cell culture and animal models as well as studies in humans.

- Expertise in genetic- and epigenetic-focused methods, the latest mainly in the area of DNA methylation by setting up novel methods for to the analysis of DNA methylation patterns both global and gene-specific and also by through high-throughput array-based techniques
- Studies on the interactions between polymorphisms within one-carbon metabolism genes and epigenetic phenomena in humans for studies focused on chronic illnesses including cardiovascular diseases and cancer with an attention to primary liver cancers.

ADDITIONAL INFORMATION

Publications

Selection of scientific publications in extenso on peer-reviewed Journals classified by ISI web of Science:

Marzano L, Zoccatelli F, and Friso S. Dilated cardiomyopathy in primary aldosteronism: A state-of-the-art of mechanistic insights, therapeutic strategies, and future perspectives. *Trends Cardiovasc Med*. 2025 Sep 27:S1050-1738(25)00132-X. doi: 10.1016/j.tcm.2025.09.008. Epub ahead of print. PMID: 41022188.

Argentino G, Di Leo EG, Stranieri C, Negri S, Commisso M, Guzzo F, Fratta Pasini AM, Castagna A, and Friso S. Screening of Mediterranean Plant-Derived Extracts for Antioxidant Effect in Cell-Free and Human Cell Line Models. *Antioxidants (Basel)*. 2025 Oct 9;14(10):1217. doi: 10.3390/antiox14101217. PMID: 41154526; PMCID: PMC12561960.

Merlo M, Zoccatelli F, Costa G, Panepinto L, Friso S, Marzano L. Aldosterone synthase inhibitors across the translational spectrum: Mechanistic foundations and emerging clinical applications. *J Intern Med*. 2026 Apr;299(4):425-443. doi: 10.1111/joim.70061. Epub 2026 Jan 5. PMID: 41491887.

Sadia K, Castagna A, Udali S, Ambrosani F, Pattini P, Beri R, Argentino G, Masutti M, Moruzzi S, and Friso S. Epigenetic Regulation Through Histone Deacetylation: Implications and Therapeutic Potential in Hepatocellular Carcinoma. *Cells*. 2025 Aug 29;14(17):1337. doi: 10.3390/cells14171337. PMID: 40940750; PMCID: PMC12427918.

Marzano L, Zoccatelli F, Pizzolo F, and Friso S. Adrenalectomy Versus Medical Therapy in Primary Aldosteronism: A Meta-Analysis of Long-Term Cardiac Remodeling and Function: Medical Versus Adrenalectomy Treatment Compared in Hyperaldosteronism (MATCH) Study. *Hypertension*. 2025 Jun 25. doi: 10.1161/HYPERTENSIONAHA.125.25104. Epub ahead of print. PMID: 40557482.

Lunghi B, Castagna A, Branchini A, Baroni M, Marchetti G, Mazzoni G, Legnani C, Spizzo M, Mango G, Friso S, Martinelli N, Bernardi F. Selected cell receptor genotypes differentially modulate the ABO blood group influence on Factor VIII levels in severe aortic stenosis. *Thromb Res*. 2025 Jul;251:109356. doi: 10.1016/j.thromres.2025.109356. Epub 2025 May 19. PMID: 40398046.

Maiolini F, Bassanello E, Croce J, Tinazzi E, Friso S. Systemic autoinflammatory disease following COVID-19 mRNA vaccine: a severe and rare clinical presentation. *Intern Emerg Med*. 2025 May 15. doi: 10.1007/s11739-025-03965-9. Epub ahead of print. PMID: 40374837.

Argentino G, Olivieri B, Morandi M, Bonisoli G, Beri R, Tinazzi E, and Friso S. Lymphomonocytic Extracellular Vesicles Influence Fibroblast Proliferation and Collagen Production in Systemic Sclerosis. *Int J Mol Sci*. 2025 Mar 17;26(6):2699. doi: 10.3390/ijms26062699. PMID: 40141341; PMCID: PMC11942427.

Marzano L, Merlo M, Martinelli N, Pizzolo F, and Friso S. Efficacy and Safety of Aldosterone Synthase Inhibitors for Hypertension: A Meta-Analysis of Randomized Controlled Trials and Systematic Review. *Hypertension*. 2025 Jan 31. doi: 10.1161/HYPERTENSIONAHA.124.23962. Epub ahead of print. PMID: 39886765.

Monegatti S, Martinelli N, Friso S, Spronk HMH, Cate HT. Mechanisms and management of thrombosis in cancer: Focus on gastrointestinal malignancies. *J Pharmacol Exp Ther*. 2025 Jan;392(1):100018. doi: 10.1124/jpet.124.002203. Epub 2024 Nov 22. PMID: 39893001.

Chun S, Kim MJ, Shin PK, Park SJ, Yang HJ, Kim JH, Lee KH, Hong M, Kwon DY, Friso S, Lee HJ, Kim MS, Choi SW. Traditional Korean diet high in one-carbon nutrients increases global DNA methylation: implication for epigenetic diet. *Eur J Nutr*. 2024 Jun 12. doi: 10.1007/s00394-024-03442-7. Epub ahead of print. PMID: 38867083.

Martinelli N, Moruzzi S, Udali S, Castagna A, Di Santo L, Ambrosani F, Baroni M, Pattini P, Pizzolo F, Ruzzenente A, Conci S, Grusse M, Campagnaro T, Van Dreden P, Guglielmi A, Bernardi F, Olivieri O, **and Friso S**. Tissue factor pathway-related biomarkers in liver cancer: activated factor VII-antithrombin complex and tissue factor mRNA levels are associated with mortality. *Res Pract Thromb Haemost*. 2024;8:e102310

Choi SW, **and Friso S**. Modulation of DNA methylation by one-carbon metabolism: a milestone for healthy aging. *Nutr Res Pract*. 2023 Aug;17(4):597-615. doi: 10.4162/nrp.2023.17.4.597. Epub 2023 May 17. PMID: 37529262; PMCID: PMC10375321.

Friso S, Castagna A, Mango G, Olivieri O, Pizzolo F. Urinary extracellular vesicles carry valuable hints through mRNA for the understanding of endocrine hypertension. *Front Endocrinol* (Lausanne). 2023 Mar 29;14:1155011. doi: 10.3389/fendo.2023.1155011. PMID: 37065732; PMCID: PMC10096029.

Pizzolo F, Bertolone L, Castagna A, Morandini F, Sartori G, De Santis D, Tiberti N, Brazzarola P, Salvagno G, **Friso S**, Olivieri O. Urinary extracellular vesicle mRNA analysis of sodium chloride cotransporter in hypertensive patients under different conditions. *J Hum Hypertens*. 2023 Jul;37(7):524-531. doi: 10.1038/s41371-022-00744-3. Epub 2022 Aug 17. PMID: 35978099.

Molfino A, Ambrosani F, Tambaro F, Belli R, Imbimbo G, Udali S, Moruzzi S, Pattini P, Ramaccini C, Castagna A, Muscaritoli M, **and Friso S**. Changes of gene expression in peripheral blood mononuclear cells of lung cancer patients with or without anorexia. *Clin Nutr*. 2023 Jan;42(1):9-17. doi: 10.1016/j.clnu.2022.11.013. Epub 2022 Nov 23. PMID: 36473427.

Bortolus R, Filippini F, Chiaffarino F, Udali S, Rinaldi M, Gandini G, Montagnana M, Lippi G, Olivieri O, Parazzini F, **and Friso S**. Lifestyle and dietary factors, iron status and one-carbon metabolism polymorphisms in a sample of Italian women and men attending a Transfusion Medicine Unit: a cross-sectional study. *Br J Nutr*. 2022 Oct 28;1-6. doi: 10.1017/S0007114522003245. Epub ahead of print. PMID: 36305043.

Osti N, Beschin G, Goldin M, Guidolin L, Panero E, Sartori A, Parisi A, Cantini M, Pizzolo F, Olivieri O, **and Friso S**. Microangiopathic Hemolytic Anemia With Normal ADAMTS13 Activity. *Front Med* (Lausanne). 2021 Mar 2;8:589423. doi: 10.3389/fmed.2021.589423. PMID: 33738292; PMCID: PMC7960662.

Pizzolo F, Castagna A, Olivieri O, Girelli D, **Friso S**, Stefanoni F, Udali S, Munerotto V, Baroni M, Cetera V, Luciani GB, Faggian G, Bernardi F, Martinelli N. Basophil Blood Cell Count Is Associated With Enhanced Factor II Plasma Coagulant Activity and Increased Risk of Mortality in Patients With Stable Coronary Artery Disease: Not Only Neutrophils as Prognostic Marker in Ischemic Heart Disease. *J Am Heart Assoc*. 2021 Feb;10(5):e018243. doi: 10.1161/JAHA.120.018243. Epub 2021 Feb 24. PMID: 33624506.

Udali S, De Santis D, Mazzi F, Moruzzi S, Ruzzenente A, Castagna A, Pattini P, Beschin G, Franceschi A, Guglielmi A, Martinelli N, Pizzolo F, Ambrosani F, Olivieri O, Choi SW, **and Friso S**. Trace Elements Status and Metallothioneins DNA Methylation Influence Human Hepatocellular Carcinoma Survival Rate. *Front Oncol*. 2021 Jan 28;10:596040. doi: 10.3389/fonc.2020.596040. PMID: 33585212; PMCID: PMC7876470.

Bortolus R, Filippini F, Udali S, Rinaldi M, Genesini S, Gandini G, Montagnana M, Chiaffarino F, Lippi G, Pattini P, De Grandi G, Olivieri O, Parazzini F, **and Friso S**. B vitamin blood concentrations and one-carbon metabolism polymorphisms in a sample of Italian women and men attending a unit of transfusion medicine: a cross-sectional study. *Eur J Nutr*. 2020 Dec 29. doi: 10.1007/s00394-020-02448-1. Epub ahead of print. PMID: 33373019.

Bronte V, Ugel S, Tinazzi E, Vella A, De Sanctis F, Canè S, Batani V, Trovato R, Fiore A, Petrova V, Hofer F, Barouni RM, Musiu C, Caligola S, Pinton L, Torroni L, Polati E, Donadello K, **Friso S**, Pizzolo F, Iezzi M, Facciotti F, Pelicci PG, Righetti D, Bazzoni P, Rampudda M, Cornel A, Mosaner W, Lunardi C, Olivieri O. Baricitinib restrains the immune dysregulation in patients with severe COVID-19. *J Clin Invest*. 2020 Dec 1;130(12):6409-6416. doi: 10.1172/JCI141772. PMID: 32809969.

Pizzolo F, Rigoni AM, De Marchi S, **Friso S**, Tinazzi E, Sartori G, Stefanoni F, Nalin F, Montagnana M, Pilotto S, Milella M, Azzini AM, Tacconelli E, Marchi G, Girelli D, Olivieri O, Martinelli N. Deep vein thrombosis in SARS-CoV-2 pneumonia-affected patients within standard care units: Exploring a submerged portion of the iceberg. *Thromb Res*. 2020 Oct;194:216-219. doi: 10.1016/j.thromres.2020.08.008. Epub 2020 Aug 6. PMID: 33074107; PMCID: PMC7409796.

Olivieri O, Speziali G, Castagna A, Pattini P, Udali S, Pizzolo F, Liesinger L, Gindlhuber J, Tomin T, Schittmayer M, Birner-Gruenberger R, Cecconi D, Girelli D, **Friso S**, Martinelli N. The Positive Association between Plasma Myristic Acid and ApoCIII Concentrations in Cardiovascular Disease Patients Is Supported by the Effects of Myristic Acid in HepG2 Cells. *J Nutr*. 2020 Oct 12;150(10):2707-2715. doi: 10.1093/jn/nxaa202. PMID: 32710763.

Martinelli N, Montagnana M, Pizzolo F, **Friso S**, Salvagno GL, Forni GL, Gianesin B, Morandi M, Lunardi C, Lippi G,

- Polati E, Olivieri O, De Franceschi L. A relative ADAMTS13 deficiency supports the presence of a secondary microangiopathy in COVID 19. *Thromb Res*. 2020 Sep;193:170-172. doi: 10.1016/j.thromres.2020.07.034. Epub 2020 Jul 18. PMID: 32707276; PMCID: PMC7367811.
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- Ronis MJ, Mercer KE, Shankar K, Pulliam C, Pedersen K, Ingelman-Sundberg M, Friso S, Samuelson D, Del Valle L, Taylor C, Welsh DA. Potential role of gut microbiota, the proto-oncogene PIKE (Agap2) and cytochrome P450 CYP2W1 in promotion of liver cancer by alcoholic and nonalcoholic fatty liver disease and protection by dietary soy protein. *Chem Biol Interact*. 2020 Jul 1;325:109131. doi: 10.1016/j.cbi.2020.109131. Epub 2020 May 14. PMID: 32417163; PMCID: PMC7370542.
- Olivieri O, Cappellari M, Turcato G, Bonetti B, Girelli D, Pizzolo F, Friso S, Bassi A, Castagna A, Martinelli N. Increased Incidence of Ischemic Cerebrovascular Events in Cardiovascular Patients With Elevated Apolipoprotein CIII. *Stroke*. 2020 Jan;51(1):61-68. doi: 10.1161/STROKEAHA.119.026811. Epub 2019 Dec 4. PMID: 31795904.
- Olivieri O, Turcato G, Moruzzi S, Castagna A, Girelli D, Pizzolo F, Friso S, Sandri M, Bassi A, Martinelli N. Not Just Arterial Damage: Increased Incidence of Venous Thromboembolic Events in Cardiovascular Patients With Elevated Plasma Levels of Apolipoprotein CIII. *J Am Heart Assoc*. 2019 Jan 22;8(2):e010973. doi: 10.1161/JAHA.118.010973.
- Udali S, De Santis D, Ruzzenente A, Moruzzi S, Mazzi F, Beschin G, Tammen SA, Campagnaro T, Pattini P, Olivieri O, Guglielmi A, Choi SW, and Friso S. DNA Methylation and Hydroxymethylation in Primary Colon Cancer and Synchronous Hepatic Metastasis. *Front Genet. Epigenetics* 2018 Jan 9;8:229. doi: 10.3389/fgene.2017.00229.
- Udali S, Castagna A, Corbella M, Ruzzenente A, Moruzzi S, Mazzi F, Campagnaro T, Santis D, Franceschi A, Pattini P, Gottardo R, Olivieri O, Perbellini L, Guglielmi A, Choi SW, Girelli D, and Friso S. Hepcidin and DNA promoter methylation in hepatocellular carcinoma. *Eur J Clin Invest*. 2018 Feb;48(2). doi: 10.1111/eci.12870. Epub 2017 Dec 28.
- Moruzzi S, Guarini P, Udali S, Ruzzenente A, Guglielmi A, Conci S, Pattini P, Martinelli N, Olivieri O, Tammen SA, Choi SW, and Friso S. One-carbon genetic variants and the role of MTHFD1 1958G>A in liver and colon cancer risk according to global DNA methylation. *PLoS One*. 2017 Oct 2;12(10):e0185792. doi: 10.1371/journal.pone.0185792.
- Friso S, Udali S, De Santis D, Choi S-W. "One carbon metabolism and epigenetics" [Epub ahead of print]: *Mol Aspects Med*. 2017 Apr;54:28-36. doi: 10.1016/j.mam.2016.11.007. Epub 2016 Nov 19. pii: S0098-2997(16)30093-0. doi: 10.1016/j.mam.2016.11.007. PMID: 27876555
- Lee J, Kim Y, Friso S, Choi S-W. "Epigenetics in non alcoholic fatty liver disease" *Mol Aspects Med*. 2017 Apr;54:78-88. doi: 10.1016/j.mam.2016.11.008. Epub 2016 Nov 23. pii: S0098-2997(16)30090-5. doi: 10.1016/j.mam.2016.11.008. PMID: 27889327
- Tammen SA, Park LK, Dolnikowski GG, Ausman LM, Friso S, Choi SW. Hepatic DNA hydroxymethylation is site-specifically altered by chronic alcohol consumption and aging. *Eur J Nutr*. 2017 Mar;56(2):535-544. doi: 10.1007/s00394-015-1098-4.
- Friso S, Pizzolo F, Udali S, Guarini P, Castagna A, Consoli L, Salvagno G, Tinazzi E, Pattini P, Choi S-W, Lunardi C, Olivieri O. "Epigenetic Regulation of HSD11B2 Gene by Promoter Methylation in Glucocorticoid-Treated Patients" 2016 *Journal of Clinical Epigenetics*, Vol.2, No: 1:1-12 <http://clinical-epigenetics.imedpub.com/epigenetic-regulation-of-hsd11b2-gene-by-promoter-methylation-in-gluocorticoid-treated-patients.php?aid=8369>
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- Moruzzi S, Udali S, Ruzzenente A, Guglielmi A, Guarini P, Martinelli N, Conci S, Mazzi F, Pattini P, Tammen SA, Olivieri O, Pizzolo F, Choi SW, and Friso S. The RFC1 80G>A, among Common One-Carbon Polymorphisms, Relates to Survival Rate According to DNA Global Methylation in Primary Liver Cancers. *PLoS One*. 2016 Dec 9;11(12):e0167534. doi:10.1371/journal.pone.0167534
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- Udali S, Moruzzi S, Ruzzenente A, Choi SW, and Friso S. Hypomethylation and hypohydroxymethylation of DNA in hepatocellular carcinoma and cholangiocarcinoma" Reply to Li, Zhi et al. *Hepatology*. 2015 Oct 5. doi: 10.1002/hep.28271.

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Choi S-W, Tammen SA, Liu Z, and Friso S. A lifelong exposure to a Western style diet, but not aging, alters global DNA methylation in mouse colon. *Nutrition Research and Practice*, 2015 Aug;9(4):358-63. doi: 10.4162/nrp.2015.9.4.358. PMID: 26244073

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Lee JH, Friso S, Choi S-W. "Epigenetic mechanisms underlying the link between non-alcoholic fatty liver diseases and nutrition" *Nutrients* 2014, 6, 3303-3325; doi:10.3390/nu6083303

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Friso S., Carvajal C.A., Fardella C.E., Olivieri O. "Epigenetics and arterial hypertension: the challenge of emerging evidence. *Translational Research* 2014 Jun 25. pii: S1931-5244(14)00214-X. doi: 10.1016/j.trsl.2014.06.007. PMID:25035152

Bacalini MG, Friso S, Olivieri F, Pirazzini C, Giuliani C, Capri M, Santoro A, Franceschi C, Garagnani P. "Present and future of a ageing epigenetic diets". *Mech Ageing Dev*. 2014 Jan 2. 2014 Mar-Apr;136-137:101-15. pii: S0047-6374(13)00136-X. doi: 10.1016/j.mad.2013.12.006. Epub 2014 Jan 2.

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Friso S, Jacques PF, Wilson PW, Rosenberg IH, Selhub J. Low circulating vitamin B(6) is associated with elevation of the inflammation marker C-reactive protein independently of plasma homocysteine levels. *Circulation*. 2001 Jun 12;103(23):2788-

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Projects

- **PI and co-PI for research projects by International Institutions granted after a peer-reviewed process:**

- **NIH** (Bethesda, USA: NIH/NIAAA, R21- AA016681-01; R01-AG025834-01A2),
- **Fondecyt & Conicyt (EMBC/EMBO co-operation partner, Chile: grant#1130427, 1150437, 1160695),**
- **SOCHED Chile**
- Bayer Healthcare

- PI and co-PI as well as collaborator for several National project funded by **and National Institutions including Italian Ministry as PRIN, Cariverona Foundation (PI), Joint Project (PI), Basic Science (coPI);**

- most recent ongoing:

- **2022 PNRR NextGenEU**, Missione 4, Componente 2 Spoke 6, Activity 2, **National Biodiversity Future Center** "Bioprospective and bioactivity";

- **PRIN 2022, PNRR** Missione 4, Componente 2, investimento 1.1., finanziato dall'Unione europea – NextGenerationEU - "Rediscovering coagulation factor VIII clearance in health and disease: from bleeding diathesis to thrombotic complications".

Scientific director of research projects including teaching within post-graduate PhD courses at the International center Jean Mayer, HNRC at Tufts University **Boston, MA, USA** e Friedman School of Nutrition Science and Policy Boston, MA USA;

- Several ongoing collaborative projects with International research groups in USA, Korea, Chile, Germany, the Netherlands.

Editorial Board memberships

- Associate Editor per Journal "Frontiers in Nutrition",

- Editorial Board Member di *Journal of Cancer Prevention* (indexed in the PubMed Central archive, National Library of Medicine (NLM), and Google Scholar),

- Editorial Board member della sezione di *Nutrigenomics* di "Frontiers in Genetics" (censito in Scopus);

- Board of Reviewers' Member of "BioFactors" Journal (censito in Scopus e WOS);

- Editorial Advisory Board of the Journal "Epigenetics of Diabetes and Obesity",

- Editorial Board Member, Review Editor di "Frontiers in Cell and Developmental Biology" Section Epigenomics and Epigenetics

Teaching activities in National and International PhD programs

Teaching colleges permanent member for **PhD programs in Italy:**

- Member PhD programs of the Italian Ministry of the University and Scientific research:

- *Biomolecular Medicine* DOT1340243 (University of Verona) from 2013-at present; course program: 3 years
- *Clinical Proteomics* DOT0340337 (University of Verona) from 2006-2012 including Cycles: from XXII to XXVIII- course program: 3 years
- *Experimental Haematology* DOT06C6974 (National University of Milan Bicocca) from 2007-2012. Cycles: from XXIII to XXVIII. course program 4 years

- Professor at PhD course at Friedman School of Nutrition Science and Policy, Tufts University, **Boston, MA, USA** (2009 -)

Invited speaker

Invited speaker at a large number of national and International Conferences either in Italy, other European countries as France, Germany, UK, Ireland) as well as in the USA, Korea, Chile.

Professional memberships

2000-2012 Member, the *American Heart Association*, Council on Atherosclerosis, thrombosis and vascular biology, U.S.A.

2001-present Member, the *Epigenetics Society* (formerly *DNA Methylation Society*), U.S.A.

2007-present Member, *Italian Society of Internal Medicine*, Italy

2009-present Member, *College of the University Professors of Internal Medicine Italian Society*, Italy

2011-present Member, the *American Society for Nutrition*, Diet and Cancer and Gene-Nutrient Interactions group member, U.S.A.

2012 -present Member of the *Biochemical Society Advancing Molecular Bioscience*, UK

Reviewer for Journals and for International Scientific evaluation Committees for grant assignment of research project applications

- reviewer for an ample number of major International peer-review Journal indexed by ISI Web of Science among which: The New England Journal of Medicine, The Lancet, Circulation, Adv Nutr, American Journal of Clinical Nutrition, Cell proliferation.
 - reviewer ad hoc for research project for grant applications:
 2026 ERA4 Health Project EU
 2004-present: MIUR, Italian Ministry for University and Scientific Research
 2006- : INSERM ("Institut national de la santé et de la recherche médicale")
 2008-: The Technology Foundation STW (Utrecht, The Netherlands)
 2013-: BBSRC (Biotechnology and Biological Sciences Research Council), UK
 2013- European Science Foundation EMBO
 2014-: The Netherlands Organisation for Scientific Research, (Div. Earth and Life Sciences)
 2014- : Wellcome Trust, London, UK
 2014- : National Science Centre, (Narodowe Centrum Nauki), Poland
 2015-: ESRC (Economic and Social Research Council), UK
 2017 and 2022- present: La Sapienza University Rome
 2018-present: European Joint project Horizon 2020, International Scientific Evaluation Committee for the JPI HDHL
 2018 and 2015 - present : MRC, Medical Research Council, UK

Organisational/managerial/job-related skills

Experience of coordinator of several research projects either at a National and International level
 Use of Office software packages in Windows system and Apple Mac, Statistical package by using IBM SPSS software.

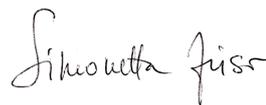
PATENTS

Inventor and owner of **INTERNATIONAL PATENT** for the invention of "A method to assess genomic DNA methylation using high-performance Liquid Chromatography-Electrospray Ionization Mass Spectrometry" (Priority data: 60/400,756; Pub. No.: WO/2004/013284 International Application No: PCT/US2003/023212 Publication Date:12.02.2004; International Filing Date:25.07.2003,USA).

Patent application for European and Italian ownership and ongoing International for the invention n. 102021000002387 entitled: "Composition and method for biofortification of food plant and food plant obtained by this method" (Italia, 3/2/2021).

I authorize the treatment of personal data according to Decreto Legislativo 30 giugno 2003, n. 196 "Codice in materia di protezione dei dati personali (facoltativo)"

Signature



Verona, March 2026