

## ATTIVITA' SCIENTIFICA (aggiornata al 2022)

Elenco delle **pubblicazioni scientifiche** su riviste nazionali ed internazionali ed IF raggiunto annualmente:

1. Marchi G, Bozzini C, Bertolone L, Dima F, Busti F, Castagna A, Stranieri C, Fratta Pasini AM, Friso S, Lippi G, Girelli D, Vianello A. Red Blood Cell Morphologic Abnormalities in Patients Hospitalized for COVID-19. *Front Physiol* 2022; 13:932013. eCollection 2022.
2. Girelli D\*, Busti F\*, Brissot P\*, Cabantchik I, Muckenthaler MU, Porto G. Hemochromatosis classification: update and recommendations by the BIOIRON Society. *Blood* 2022; 139(20):3018-3029. \*equal contributors
3. Fratta Pasini AM, Stranieri C, Girelli D, Busti F, Cominacini L. Is Ferroptosis a Key Component of the Process Leading to Multiorgan Damage in COVID-19? *Antioxidants (Basel)* 2021; 25;10(11):1677.
4. Girelli D, Marchi G, Busti F, Vianello A. Iron metabolism in infections: Focus on COVID-19. *Semin Hematol* 2021;58(3):182-187.
5. Asperti M, Brillì E, Denardo A, Gryzik M, Pagani F, Busti F, Tarantino G, Arosio P, Girelli D, Poli M. Iron distribution in different tissues of homozygous Mask (msk/msk) mice and the effects of oral iron treatments. *Am J Hematol* 2021; 96(10):1253-1263.
6. Lira Zidanes A, Marchi G, Busti F, Marchetto A, Fermo E, Giorgetti A, Vianello A, Castagna A, Olivieri O, Bianchi P, Girelli D A Novel ALAS2 Missense Mutation in Two Brothers With Iron Overload and Associated Alterations in Serum Hcpidin/Erythroferrone Levels. *Front Physiol* 2020; 11:581386. [IF=4.340(JCR 2020)]
7. Marchi G, Busti F, Girelli D. The Role of Iron Staining in Myelodysplastic Syndromes: A Treasure Trove of Information. *Acta Haematol* 2020; 30:1-2. [IF=2.098(JCR 2020)]
8. Marchi G\*, Busti F\*, Zidanes AL, Vianello A, Girelli D. Cobalamin Deficiency in the Elderly. *Mediterr J Hematol Infect Dis* 2020; 12(1):e2020043. [IF=2.392(JCR 2020)] \*equal contributors
9. Marchi G, Busti F, Vianello A, Girelli D. Anemia and iron deficiency in heart failure: extending evidences from chronic to acute setting. *Intern Emerg Med* 2020; 16(1):167-170. [IF=2.876(JCR 2020)]
10. Busti F, Marchi G, Vianello A, Girelli D. Practical implications of the 2019 Nobel Prize in Physiology or Medicine: from molecular adaptation to hypoxia to novel anti-anemic drugs in the clinic. *Intern Emerg Med* 2020; 15(6):911-915. [IF=2.876(JCR 2020)]
11. Girelli D, Busti F. Replacing the suppressed hormone: toward a better treatment for iron overload in  $\beta$ -thalassemia major? *Haematologica* 2020; 105(7):1752-1754. [IF=9.607(JCR 2020)]
12. Vila Cuenca M, Marchi G, Barqué A, Esteban-Jurado C, Marchetto A, Giorgetti A, Chelban V, Houlden H, Wood NW, Piubelli C, Dorigatti Borges M, Martins de Albuquerque D, Yotsumoto Fertrin K, Jové-Buxeda E, Sanchez-Delgado J, Baena-Díez N, Burnyte B, Utkus A, Busti F, Kaubrys G, Suku E, Kowalczyk K, Karaszewski B, Porter JB, Pollard S, Eleftheriou P, Bignell P, Girelli D, Sanchez M. Genetic and Clinical Heterogeneity in Thirteen New Cases with Aceruloplasminemia. Atypical Anemia as a Clue for an Early Diagnosis. *Int J Mol Sci* 2020; 21(7):2374. [IF=5.356(JCR 2020)]
13. Girelli D, Busti F. ERFE regulation in sickle cell disease: complex but promising. *Br J Haematol.* 2020; 189(6):1012-1013. [IF=6.613(JCR 2020)]
14. Paraboschi EM, Khera AV, Merlini PA, Gigante L, Peyvandi F, Chaffin M, Menegatti M, Busti F, Girelli D, Martinelli N, Olivieri O, Kathiresan S, Ardissino D, Asselta R, Duga S. Rare variants lowering the levels of coagulation factor X are protective against ischemic heart disease. *Haematologica* 2020; 105(7):e365-e369. [IF=9.607(JCR 2020)]
15. Marchi G, Nascimbeni F, Motta I, Busti F, Carubbi F, Cappellini MD, Pietrangelo A, Corradini E, Piperno A, Girelli D. Hyperferritinemia and Diagnosis of type 1 Gaucher Disease. *Am J Hematol* 2020; 95(5):570-576. [IF=9.575(JCR 2020)]

16. Marchi G, Busti F, Girelli D. Sparing unnecessary transfusions through patient blood management: time for application also in internal and emergency medicine. *Intern Emerg Med* 2020; 15(4):559-561. [IF=2.876(JCR 2020)]
17. Rametta R, Dongiovanni P, Baselli GA, Pelusi S, Meroni M, Fracanzani AL, Busti F, Castagna A, Scarlini S, Corradini E, Pietrangelo A, Girelli D, Fargion S, Valenti L. Impact of natural Neuromedin-B receptor variants on iron metabolism. *Am J of Hematol* 2019; 95(2):167-177. [IF=6.137(JCR 2018)]
18. Busti F, Marchi G, Lira Zidanes A, Castagna A, Girelli D. Treatment options for anemia in the elderly. *Transfusion and Apheresis Science*. 2019; 58(4):416-421. [IF=1.412(JCR 2018)]
19. Marchi G, Busti F, Lira Zidanes A, Castagna A, Girelli D. Aceruloplasminemia: A Severe Neurodegenerative Disorder Deserving an Early Diagnosis. *Frontiers in Neuroscience*. 2019; 13:325. [IF=3.648(JCR 2018)]
20. Girelli D, Busti F. Anemia and adverse outcomes in the elderly: a detrimental inflammatory loop? *Haematologica* 2019; 104 (3): 417-419. [IF=7.57(JCR 2018)]
21. Busti F, Marchi G, Girelli D. Iron replacement in inflammatory bowel disease: an evolving scenario. *Intern Emerg Med* 2019; 14(3):349-351. [IF=2.335(JCR 2018)]
22. Girelli D, Ugolini S, Busti F, Marchi G, Castagna A. Modern iron replacement therapy: clinical and pathophysiological insights. *Int J Hematol*. 2018 Jan; 107(1):16-30. doi:10.1007/s12185-017-2373-3. [1.610 IF]
23. De Falco L, Tortora R, Imperatore N, Bruno M, Capasso M, Girelli D, Castagna A, Caporaso N, Iolascon A, Rispo A. The role of TMPRSS6 and HFE variants in iron deficiency anemia in celiac disease. *Am J Hematol*. 2018 Mar; 93(3):383-393. doi:10.1002/ajh.24991. [5.275 IF]
24. Girelli D, Marchi G, Busti F. Iron replacement therapy: entering the new era without misconceptions, but more research is needed. *Blood Transfus*. 2017 Sep; 15(5):379-381. doi:10.2450/2017.0152-17. [1.607 IF]
25. Marchi G, Avesani G, Zamò A, Girelli D. Unusual case of iron overload with cancer-mimicking abdominal splenosis. *BMJ Case Rep*. 2018 May; pii:bcr-2017-223410. doi:10.1136/bcr-2017-223410.
26. Barman-Aksoezen J, Girelli D, Aurizi C, Schneider-Yin X, Campostrini N, Barbieri L, Minder EI, Biolcati G. Disturbed iron metabolism in erythropoietic protoporphyria and association of GDF15 and gender with disease severity. *J Inherit Metab Dis*. 2017 May; 40(3):433-441. doi:10.1007/s10545-017-0017-7. [4.07 IF]
27. Greni F, Valenti L, Mariani R, Pelloni I, Rametta R, Busti F, Ravasi G, Girelli D, Fargion S, Galimberti S, et al. GNPAT rs11558492 is not a Major Modifier of Iron Status: Study of Italian Hemochromatosis Patients and Blood Donors. *Ann Hepatol*. 2017 May-Jun; 16(3):451-456. doi:10.5604/16652681.1235489. [1.678 IF]
28. Piubelli C, Castagna A, Marchi G, Rizzi M, Busti F, Badar S, Marchetti M, De Gobbi M, Roetto A, Xumerle L, Suku E, Giorgetti A, Delledonne M, Olivieri O, Girelli D. Identification of new BMP6 pro-peptide mutations in patients with iron overload. *Am J Hematol*. 2017 Jun; 92(6):562-568. doi:10.1002/ajh.24730. [5.275 IF]
29. Girelli D, Nemeth E, Swinkels DW. Hepcidin in the diagnosis of iron disorders. *Blood*. 2016 Jun; 127(23):2809-13. doi:10.1182/blood-2015-12-639112. [9.06 IF]
30. Badar S, Busti F, Ferrarini A, Xumerle L, Bozzini P, Capelli P, Pozzi-Mucelli R, Campostrini N, De Matteis G, Marin Vargas S, Giorgetti A, Delledonne M, Olivieri O, Girelli D. Identification of novel mutations in hemochromatosis genes by targeted next generation sequencing in Italian patients with unexplained iron overload. *Am J Hematol*. 2016 Jun; 91(4):420-5. doi:10.1002/ajh.24304. [3.4770 IF]
31. Pelucchi S, Galimberti S, Greni F, Rametta R, Mariani R, Pelloni I, Girelli D, Busti F, Ravasi G, Valsecchi MG, et al. Proprotein convertase 7 rs236918 associated with liver fibrosis in Italian patients with HFE-related hemochromatosis. *J Gastroenterol Hepatol*. 2016 Jul; 31(7):1342-8. doi:10.1111/jgh.13315. [3.32 IF]

32. van der Vorm LN, Hendriks JC, Laarakkers CM, Klaver S, Armitage AE, Bamberg A, Geurts-Moespot AJ, Girelli D, Herkert M, et al. Toward Worldwide Hepcidin Assay Harmonization: Identification of a Commutable Secondary Reference Material. *Clin Chem*. 2016 Jul; 62(7):993-1001. doi:10.1373/clinchem.2016.256768. [7.1950 IF]
33. Russo R, Andolfo I, Manna F, De Rosa G, De Falco L, Gambale A, Bruno M, Mattè A, Ricchi P, Girelli D, et al. Increased levels of ERFE-encoding FAM132B in patients with congenital dyserythropoietic anemia typell. *Blood*. 2016 Aug; 28(14):1899-1902. doi: 10.1182/blood-2016-06-724328. [9.06 IF]
34. Rametta R, Dongiovanni P, Pelusi S, Francione P, Iuculano F, Borroni V, Fatta E, Castagna A, Girelli D, Fargion S, Valenti L. Hepcidin resistance in dysmetabolic iron overload. *Liver Int*. 2016 Oct; 36(10):1540-8. doi:10.1111/liv.13124. [3.87 IF]
35. Galesloot TE, Verweij N, Traglia M, Barbieri C, van Dijk F, Geurts-Moespot AJ, Girelli D, Kiemeny LA, Sweep FC, Swertz MA, et al. Meta-GWAS and Meta-Analysis of Exome Array Studies Do Not Reveal Genetic Determinants of Serum Hepcidin. *PLoSOne*. 2016 Nov; 11(11):e0166628. doi:10.1371/journal.pone.0166628. [4.4110 IF]
36. Cenci L, Andretto E, Vestri A, Bovi M, Barozzi M, Iacob E, Busato M, Castagna A, Girelli D, Bossi AM. Surface plasmon resonance based on molecularly imprinted nanoparticles for the picomolar detection of the iron regulating hormone Hepcidin-25. *J Nanobiotechnology*. 2015 Aug; 13:51. doi: 10.1186/s12951-015-0115-3. [4.239 IF]
37. Chirumbolo S, Rossi AP, Rizzatti V, Zoico E, Franceschetti G, Girelli D, Zamboni M. Iron primes 3T3-L1 adipocytes to a TLR4-mediated inflammatory response. *Nutrition*. 2015 Oct; 31(10):1266-74. doi: 10.1016/j.nut.2015.04.007. [2.839 IF]
38. Elli L, Poggiali E, Tomba C, Andreatozzi F, Nava I, Bardella MT, Campostrini N, Girelli D, Conte D, Cappellini MD. Does Tmprss6 RS855791 polymorphism contribute to iron deficiency in treated celiac disease? *Am J Gastroenterol*. 2015 Jan; 110(1):200-2. doi: 10.1038/ajg.2014.354. [10.383 IF]
- 39.