

## **List of Publications Univ.-Prof. Dr. Günter Weiss**

### **1. Original Papers in peer reviewed journals**

1. Weiss G, Puschendorf B: The maximum of histone acetylation precedes DNA-synthesis in regenerating rat liver. **FEBS Lett.** 238:205-210, 1988
2. Talasz H, Weiss G, Puschendorf B: Replication linked histone acetylation in rat liver tissue is sensitive to alkylating agents. **FEBS Lett.** 264:141-4, 1990
3. Reibnegger G, Weiss G, Werner-Felmayer G, Judmaier G, Wachter H: Neural networks as a tool for utilizing laboratory information: Comparison with linear discriminant analysis and with classification and regression trees. **Proc Natl Acad Sci (USA)** 88:11426-11430, 1991
4. Weiss G, Talasz H, Puschendorf B: Possible role of histone acetylation and histone H1 $\phi$  replacement for the initiation of replication in regenerating rat liver. **Biochem J.** 280:777-781, 1991
5. Fuchs D, Norkrans G, Wejstal R, Reibnegger G, Weiss G, Weiland O, Schwarcz R, Fryden A, Wachter H: Changes of serum neopterin,  $\beta$ 2-microglobulin and interferon-gamma in patients with chronic hepatitis C treated with interferon-alpha2b. **Eur J Med (Presse Med)** 1:196-200, 1992
6. Reibnegger G, Fuchs D, Judmaier G, Weiss G, Werner-Felmayer G, Wachter H: Critical study of consensus analysis. **Lancet** 339:1394-1397, 1992
7. Tilz GP, Zangerle R, Weiss G, Fritsch P, Wachter H, Fuchs D: Association between serum-soluble CD8 levels and parameters of immune activation in patients with human immunodeficiency virus infection. **Clin Invest Med.** 70:662-4, 1992
8. Weiss G, Glaser K, Kronberger P, Ambach E, Fuchs D, Bodner E, Wachter H: Distinct distributions of D-erythro-neopterin in arteries and veins and its recovery by an enterohepatic circulation. **Biol Chem. Hoppe Seyler** 373:289-94, 1992
9. Weiss G, Fuchs D, Hausen A, Reibnegger G, Werner ER, Werner-Felmayer G, Wachter H: Iron modulates interferon-gamma effects in the human myelomonocytic cell line THP-1. **Exp Hematol.** 20:605-610, 1992
10. Werner ER, Mayer B, Prast H, Schmidt K, Werner-Felmayer G, Weiss G, Wachter H: Current knowledge on pteridine dependence of nitric oxide synthase. **Pteridines** 3:49-50, 1992
11. Margreiter R, Aichberger C, Konigsrainer A, Reibnegger G, Weiss G, Wachter H: Biliary neopterin for differentiation between liver allograft rejection and viral graft infection. **Transpl Int.** 5:199-201, 1992

12. Werner-Felmayer G, Werner ER, Weiss G, Wachter H: Tetrahydrobiopterin-dependent conversion of L-arginine to L-citrulline and nitric oxide in murine and human cells. **Pteridines** 3:53-54, 1992
13. Denz H, Orth B, Weiss G, Herrmann R, Huber P, Wachter H, Fuchs D: Weight loss in patients with hematological neoplasias is associated with immune system stimulation. **Clin Invest Med.** 71:37-41, 1993
14. Estelberger W, Weiss G M, Petek W, Paletta B, Wachter H, Reibnegger G: Determination of renal clearance of neopterin by a pharmacokinetic approach. **FEBS Lett.** 329:13-16, 1993 (IF 3,6)
15. Fuchs D, Zangerle R, Artner-Dworzak E, Weiss G, Fritsch P, Tilz GP, Dierich MP, Wachter H: Association between immune activation, changes of iron metabolism and anaemia in patients with HIV-infection. **Eur J Haematol.** 50:90-94, 1993
16. Hausen A, Aichberger C, Königsrainer A, Weiss G, Margreiter R, Wachter H: Biliary and urinary neopterin concentrations in monitoring liver-allograft recipients. **Clin Chem.** 39:45-48, 1993
17. Judmaier G, Meyersbach P, Weiss G, Wachter H, Reibnegger G: The role of neopterin in assessing disease activity in Crohn`s disease: Classification and regression trees. **Am J Gastroenterol.** 88:706-711, 1993
18. Rudzite V, Jurika E, Reibnegger G, Weiss G, Wachter H, Fuchs D: Influence of kynurenine, neopterin, noradrenaline and pyridoxal-5-phosphate on cholesterol and phospholipid content and phospholipid biosynthesis in vitro. **Pteridines** 4:126-130, 1993
19. Tilz GP, Domej W, Diez-Ruiz A, Weiss G, Brezinschek R, Brezinschek HP, Hüttl E, Pristautz H, Wachter H, Fuchs D: Increased immune activation during and after physical exercise. **Immunobiol.** 188:194-202, 1993
20. Weiss G, Kronberger P, Conrad F, Bodner E, Wachter H, Reibnegger G. Neopterin and prognosis in patients with adenocarcinoma of the colon. **Cancer Res.** 53:260-265, 1993
21. Weiss G, Lutton JD, Fuchs D, Werner-Felmayer G, Bock G, Abraham NG, Kappas A, Levere RD, Wachter H: Comparative effects of heme and metalloporphyrins on interferon-gamma-mediated pathways in monocytic cells (THP-1). (**Proc Soc**) **Exp Biol Med** 202:470-475, 1993
22. Weiss G, Fuchs D, Hausen A, Reibnegger G, Werner ER, Werner-Felmayer G, Semenitz E, Dierich MP, Wachter H: Neopterin modulates toxicity mediated by reactive oxygen and chloride species. **FEBS Lett.** 321:89-93, 1993

23. Weiss G, Goossen B, Doppler W, Fuchs D, Pantopoulos K, Werner-Felmayer G, Wachter H, Hentze MW: Translational regulation via iron-responsive elements by the nitric oxide/NO-synthase pathway. **EMBO J** 12:3651-7, 1993
24. Werner-Felmayer G, Werner ER, Fuchs D, Hausen A, Mayer B, Reibnegger G, Weiss G, Wachter H: Ca(2+)/calmodulin-dependent nitric oxide synthase activity in the human cervix carcinoma cell line ME-180. **Biochem J.** 289:357-361, 1993
25. Werner-Felmayer G, Werner ER, Fuchs D, Hausen A, Reibnegger G, Schmidt K, Weiss G, Wachter H: Pteridine biosynthesis in human endothelial cells. Impact on nitric oxide-mediated formation of cyclic GMP. **J Biol Chem.** 268:1842-1846, 1993
26. Wöll E, Weiss G, Fuchs D, Lang F, Wachter H: Effect of pteridine derivatives on intracellular calcium concentration in human monocytic cells. **FEBS Lett.** 318:249-252, 1993
27. Denz H, Orth B, Weiss G, Gallati H, Herrmann R, Huber P, Wachter H, Fuchs D. Serum soluble tumour necrosis factor receptor 55 is increased in patients with haematological neoplasias and is associated with immune activation and weight loss. **Eur J Cancer** 29A:2232-2235, 1993
28. Diez-Ruiz A, Weiss G, Artner-Dworzak E, Dittrich PV, Wachter H, Fuchs D. Association between hemoglobin and neopterin concentrations in hemodialysis patients treated with erythropoietin. **Eur J Haematol.** 51:175-7, 1993
29. Zangerle R, Gallati H, Sarcletti M. Weiss G, Denz H, Wachter H, Fuchs D: Increased serum concentrations of soluble tumor necrosis factor receptors in HIV-infected individuals are associated with immune activation. **J AIDS** 7: 79-85, 1994
30. Weiss G, Willeit J, Kiechl S, Fuchs D, Jarosch E, Reibnegger G, Gerstenbrand F, Wachter H. Increased concentrations of interferon-gamma inducible factor neopterin in carotid sclerosis. **Atherosclerosis** 106:263-271, 1994
31. Melichar B, Aichberger C, Artner-Dworzak E, Weiss G, Margreiter R, Wachter H, Fuchs D. Immune activation and enhanced urinary zinc concentrations in allograft recipients. **Presse Med.** 23:702-706, 1994
32. Weiss G, Werner-Felmayer G, Werner ER, Grünewald K, Wachter H, Hentze MW. Iron regulates nitric oxide synthase activity by modulating nuclear transcription. **J Exp Med.** 180:969-976, 1994
33. Marth C, Weiss G, Koza A, Reibnegger G, Daxenbichler G, Zeimet AG, Fuchs D, Wachter H, Dapunt O. Increased production of immune activation marker neopterin by colony-stimulating factors in gynecological cancer patients. **Int J Cancer** 58: 20-23, 1994

34. Weiss G, Schwaighofer H, Hermold M, Nachbaur D, Wachter H, Niederwieser D, Werner ER. Nitric oxide formation as predictive parameter for acute graft versus host disease after human allogeneic bone marrow transplantation. **Transplantation** 60: 1239-44, 1995
35. Kronberger P, Weiss G, Tschmelitsch J, Fuchs D, Salzer GM, Wachter H, Reibnegger G. Predictive value of urinary neopterin in patients with lung cancer. **Eur J Clin Chem Clin Biochem.** (Clin Chem Lab Med) 33:831-7, 1995
36. Weyrer K, Feichtinger H, Haun M, Weiss G, Öfner D, Weger AR, Umlauf F, Grünewald K. p53, Ki-ras, and DNA ploidy in human pancreatic carcinomas. **Lab Invest.** 74:279-289, 1996
37. Thuma PE, Weiss G, Herold M, Gordeuk VR. Serum neopterin, interleukin-4 and interleukin 6 concentrations in cerebral malaria patients and the effect of iron chelation therapy. **Am J Trop Med Hyg.** 54:164-168, 1996
38. Weiss G, Graziadei I, Urbanek M, Grünewald K, Vogel W. Divergent effects of  $\alpha$ 1-antitrypsin on the regulation of iron metabolism in human erythroleukemic (K562) and myelomonocytic (THP-1) cells. **Biochem J.** 319:897-902, 1996
39. Pantopoulos K, Weiss G, Hentze MW. Nitric oxide and oxidative stress control mammalian iron metabolism by different pathways. **Mol Cell Biol.** 16:3871-78, 1996
40. Umlauf F, Keefe EB, Offner F, Weiss G, Feichtinger H, Lehmann E, Kilganoogler S, Schwab G, Propst A, Grünewald K, Judmaier G. Helicobacter pylori infection and blood group antigens: lack of clinical association. **Am J Gastroenterol.** 91:2135-2138, 1996
41. Weiss G, Thuma P, Mabeza G, Werner ER, Herold M, Gordeuk V. Modulatory effects of iron chelation therapy on nitric oxide formation in children with cerebral malaria. **J Infect Dis.** 175:226-230, 1997
42. Weiss G, Houston T, Kastner S, Grünewald K, Brock J. Regulation of cellular iron metabolism by erythropoietin: activation of iron regulatory protein and up-regulation of transferrin-receptor in erythroid cells. **Blood** 89:680-7, 1997
43. Umlauf F, Grünewald K, Weiss G, Kessler H, Urbanek M, Haun M, Santner B, König P, Keefe EB. Patterns of Hepatitis C viremia in hemodialysis patients. **Am J Gastroenterol.** 92:73-78, 1997
44. Weiss G, Bogdan C, Hentze MW. Pathways for the regulation of macrophage iron metabolism by the anti-inflammatory cytokines IL-4 and IL-13. **J Immunol.** 158:420-425, 1997

45. Rudzite V, Jurika E, Jirgenson J, Herpfer I, Weiss G, Wachter H, Fuchs D. The influence of kynurenine and its metabolites on lipid metabolism. **Pteridines** 8:201-205, 1997
46. Weiss G, Kastner S, Brock J, Thaler J, Grünewald K. Modulation of Transferrin Receptor Expression by Dexrazoxane (ICRF-187) via Activation of Iron Regulatory Protein. **Biochem Pharmacol.** 53:1419-1424, 1997
47. Weiss G, Lhotta K, Reibnegger G, König P, Knapp E. Divergent effects of hemodialysis and continuous ambulatory peritoneal dialysis on cardiac diastolic function. **Perit Dial Int.** 17:353-359, 1997
48. Graziadei I, Weiss G, Böhm A, Werner-Felmayer G, Vogel W. Unidirectional upregulation of the synthesis of the major iron proteins, transferrin receptor and ferritin, in HepG2 cells by the acute phase protein alpha1- antitrypsin. **J Hepatol.** 27:716-725, 1997
49. Bogdan C, Thüning H, Dlaska M, Röllinghoff M, Weiss G. Mechanism of suppression of macrophage nitric oxide release by IL-13. **J Immunol.** 159:4506-4513, 1997
50. Weiss G, Thuma PE, Biemba G, Mabeza G, Werner ER, Gordeuk VR. Cerebrospinal fluid levels of biopterin, nitric oxide metabolites and immune activation markers and the clinical course of human cerebral malaria. **J Infect Dis.** 177: 1064-1068, 1998
51. Biemba G, Gordeuk VR, Thuma PE, Mabeza GF, Weiss G. Prolonged Macrophage Activation and Persistent Anemia in Children with Complicated Malaria. **Trop Med Int Health** 3:60-65, 1998
52. Graziadei I, Weiss G, Egger C, Niederwieser D, Vogel W. Regulation of iron metabolism by alpha-1-antitrypsin in human THP-1 cells and cultured peripheral monocytes. **Exp Hematol.** 26:1053-1060, 1998
53. Dlaska M, Weiss G. Central Role of Transcription Factor NF-IL6 for Cytokine and Iron Mediated Regulation of Murine Inducible Nitric Oxide Synthase Expression. **J Immunol.** 162:6171-6177, 1999
54. Weiss G, Murr C, Zoller H, Haun M, Wiedner B, Ludescher C, Fuchs D. Modulation of neopterin formation and tryptophan degradation by Th1 and Th2 derived cytokines in human monocytic cells. **Clin Exp Immunol.** 116:435-440, 1999
55. Oexle H, Gnaiger E, Weiss G. Iron dependent changes in cellular energy metabolism: influence on citric acid cycle and oxidative phosphorylation. **Biochim Biophys Acta-Bioenergetics** 1413:99-107, 1999

56. Zoller H, Pietrangelo A, Vogel W, Weiss G. Expression of the duodenal metal transporter NRAMP-2 (DMT-1) in patients with hereditary hemochromatosis. **Lancet** 353:2120-2124, 1999
57. Camacho LH, Wilairatana P, Weiss G, Mercader MA, Brittenham GM, Looareesuwan S, Gordeuk VR. The eosinophilic response and haematological recovery after treatment for Plasmodium falciparum malaria. **Trop Med Int Health** 4:471-475, 1999
58. Sperner-Unterweger B, Whitworth A, Kemmler G, Hilbe W, Thaler J, Weiss G, Fleischhacker WW. T-cell subsets in schizophrenia: a comparison between drug-naive first episode patients and chronic schizophrenic patients. **Schizophr Res.** 27:61-70, 1999
59. Weiss G, Umlauf F, Urbanek M, Herold M, Loyevsky M, Offner F, Gordeuk VR. Interactions of cellular immune effector function, iron metabolism and disease activity in patients with hepatitis C virus (HCV) infection. **J Infect Dis.** 180:1452-8, 1999
60. Biemba G, Dolmans D, Thuma PE, Weiss G, Gordeuk VR. Severe anemia in Zambian children with Plasmodium falciparum malaria. **Trop Med Int Health.** 5:9-16, 2000
61. Coccia EM, Stellaci E, Marziali G, Weiss G, Battistini A. IFN-gamma and IL-4 mutually regulate iNOS gene expression through IRF-1. **Int Immun.** 12:997-985, 2000
62. Biemba G, Gordeuk VR, Thuma P, Weiss G. Markers of Inflammation in children with severe malarial anemia. **Trop Med Int Health** 5:256-262, 2000
63. Scaccabarozzi A, Arosio P, Weiss G, Valenti L, Dongiovanni P, Fracanzani AL, Mattioli M, Levi S, Fiorelli G, Farigon S. Relationship between TNF-alpha and iron metabolism in differentiating human monocytic THP-1 cells. **Brit J Haematol.** 110:978-84, 2000
64. Zoller H, Koch RO, Theurl I, Obrist P, Pietrangelo A, Montosi G, Haile DJ, Vogel W, Weiss G. Expression of the duodenal iron transporters divalent-metal transporter 1 and ferroportin 1 in iron deficiency and iron overload. **Gastroenterology** 120:1412-9, 2001
65. Fritsche G, Larcher C, Schennach H, Weiss G. Regulatory interactions between iron and nitric oxide metabolism for immune defense against Plasmodium falciparum infection. **J Infect Dis.** 183:1388-94, 2001
66. Caltagirone A, Weiss G, Pantopoulos K. Modulation of cellular iron metabolism by hydrogen peroxide. Effects of H<sub>2</sub>O<sub>2</sub> on the expression and function of iron-responsive element-containing mRNAs in B6 fibroblasts. **J Biol Chem.** 276:19738-45, 2001

67. Gaenzler H, Sturm W, Neumayr R, Kirchmair R, Ritsch A, Föger B, Weiss G, Patsch JR. Pronounced postprandial lipemia impairs endothelium-dependent dilation of the brachial artery in men. **Cardiovasc Res.** 52:509-16, 2001
68. Wiedermann CJ, Kiechl S, Schratzberger P, Dunzendorfer S, Weiss G, Willeit J. The role of immune activation in endotoxin-induced atherogenesis. **Innate Immunity-London** (früher J Endotoxin Res) 7:322-6, 2001
69. Tilg H, van Montfrans C, van Den Ende A, Kaser A, van Deventer SJ, Schreiber S, Gregor M, Ludwiczek O, Rutgeerts P, Gasche C, Koningsberger JC, Abreu L, Kuhn I, Cohard M, LeBeaut A, Grint P, Weiss G. Treatment of Crohn's disease with recombinant human interleukin 10 induces the proinflammatory cytokine interferon gamma. **Gut** 50:191-195, 2002
70. Zoller H, Decristophoro M, Weiss G. Erythroid 5- aminolevulinate Synthase, Ferrochelatase and DMT1 Expression in Erythroid Progenitors: Differential Pathways for Erythropoietin and Iron Dependent Regulation, **Brit J Haematol.** 118:619-26, 2002
71. Rotheneder A, Fritsche G, Heinisch L, Möllmann U, Heggemann S, Larcher C, Weiss G. Effect of synthetic siderophores on the proliferation of Plasmodium falciparum in infected human erythrocytes, **Antimicrob Agents Chemother.** 46:2010-2013, 2002
72. Lebeau A, Frank J, Biesalski HK, Weiss G, Srai SK, Simpson RJ, McKie AT, Bahram S, Gilfillan S, Schumann K. Long-term sequelae of HFE deletion in C57BL/6 x 129/O1a mice, an animal model for hereditary haemochromatosis. **Eur J Clin Invest.** 32:603-612, 2002
73. Tilg H, Ulmer H, Kaser A, Weiss G. Role of IL-10 for induction of anemia during inflammation. **J Immunol.** 169:2204-9, 2002
74. Gänzer H, Marschang P, Sturm W, Vogel W, Patsch J, Weiss G. Associations between increased iron stores and impaired endothelial function in patients with hereditary hemochromatosis. **J Am Card Coll.** 40:2189-94, 2002
75. Gerhard G, Meyer P, Yoshida Y, Yoshida M., Chorney KA, , Beard J, Kauffman EJ, Weiss G, Chorney MJ. Hemochromatosis Protein (HFE) and Tumor Necrosis Factor Receptor 2 (TNFR2) Influence Tissue Iron Levels: Elements of a Common Gut Pathway? **Blood Cells Mol Dis.** 29:274-85, 2002
76. Zoller H, Theurl I, Koch R, Kaser A, Weiss G. Mechanisms of iron mediated regulation of the duodenal iron transporters divalent metal transporter 1 and ferroportin 1. **Blood Cells Mol Dis.** 29:488-97, 2002
77. Weiss G, Diez-Ruiz A, Theurl I, Fuchs D. Tryptophan metabolites as scavengers of reactive oxygen and chlorine species. **Pteridines** 13:139-143, 2002

78. Neurauter G, Wirleitner B, Laich A, Schennach H, Weiss G, Fuchs D. Atorvastatin suppresses interferon-gamma induced neopterin formation and tryptophan degradation in human peripheral blood mononuclear cells. **Clin Exp Immunol.** 131:264-267, 2003
79. Koch RO, Zoller H, Theurl I, Obrist P, Egg G, Strohmayer W, Vogel W, Weiss G. Distribution of DMT 1 within the Human Glandular System. **Histol Histopathol.** 18:1095-1101, 2003
80. Ludwiczek S, Aigner E, Theurl I, Weiss G. Cytokine mediated regulation of iron transport in human monocytic cells. **Blood** 101:4148-4154, 2003
81. Oexle H, Kaser A, Möst J, Werner ER, Werner-Felmayer G, Weiss G. Pathways for the regulation of interferon-gamma inducible genes by iron in human monocytic cells. **J Leukoc Biol.** 74:287-294, 2003
82. Sarcelletti M, Quirchmair G, Weiss G, Fuchs D, Zangerle R. Increase of haemoglobin levels by anti-retroviral therapy is associated with a decrease in immune activation. **Eur J Haematol.** 70:17-25, 2003
83. Weiss G, Meusburger E, Radacher G, Garimorth K, Neyer U, Mayer G. Effect of iron treatment on circulating cytokine levels in ESRD patients receiving recombinant human erythropoietin. **Kidney Intern.** 64:572-8, 2003
84. Zoller H, Theurl I, Koch RO, McKie AT, Vogel W, Weiss G. Duodenal cytochrome b and Hephaestin Expression in Patients with Iron Deficiency and Hemochromatosis. **Gastroenterology** 125:746-754, 2003
85. Walter RB, Fuchs D, Weiss G, Walter TR, Reinhart WH. HMG-CoA reductase inhibitors are associated with decrease neopterin levels in stable coronary artery disease. **Clin Chem Lab Med** 41:1314-1319, 2003
86. Fritsche G, Dlaska M, Barton H, Theurl I, Garimorth K, Weiss G. Nramp1- functionality increases iNOS transcription via stimulation of IRF-1 expression. **J Immunol.** 171:1994-1998, 2003
87. Weiss G, Schroecksnadel K, Mattle V, Winkler C, Konwalinka G, Fuchs D. Possible role of cytokine-induced tryptophan degradation in anaemia of inflammation. **Eur J Haematol.** 72:130-4, 2004
88. Theurl I, Zoller H, Obrist P, Datz C, Bachmann F, Elliott RM, Weiss G. Iron regulates hepatitis C virus translation via stimulation of eIF3 expression. **J Infect Dis.** 190:819-825, 2004
89. Kaser A, Ludwiczek O, Holzmann S, Moschen AR, Weiss G, Enrich B, Graziadei I, Dunzendorfer S, Wiedermann CJ, Murzl E, Grasl E, Jasarevic Z, Romani N, Offner FA, Tilg H. Increased expression of CCL20 in human inflammatory bowel disease. **J Clin Immunol.** 24:74-85, 2004



90. Ludwiczek S, Theurl I, Artner-Dworzak E, Chorney M, Weiss G. Genetic diversity regulates HFE expression and body iron homeostasis in mice. **J Mol Med.** 82: 373-381, 2004
91. Barisani D, Parafioriti A, Bardella MT, Zoller H, Conte D, Armiraglio E, Trovato C, Koch R, Weiss G. Adaptive changes in duodenal iron transport in celiac disease patients. **Physiol Genomics** 19:316-325, 2004
92. Molnar C, Garcia-Trevijano ER, Ludwiczek O, Talabot D, Kaser A, Mato JM, Fritsche G, Weiss G, Gabay C, Avila MA, Tilg H. Anti-inflammatory effects of hepatocyte growth factor: induction of interleukin-1 receptor antagonist. **Eur Cytokine Netw.** 15:303-11, 2004
93. Ludwiczek S, Theurl I, Bahram S, Schümann K, Weiss G. Regulatory networks for the control of body iron homeostasis and their dys-regulation in HFE mediated hemochromatosis. **J Cell Physiol.** 204:489-499, 2005
94. Theurl I, Ludwiczek S, Eller P, Seifert M, Artner A, Brunner P, Weiss G. Pathways for the regulation of body iron homeostasis in response to experimental iron overload. **J Hepatol.** 43:711-719, 2005
95. Geier A, Gartung C, Theurl I, Weiss G, Lammert F, Dietrich CG, Weiskirchen R, Zoller H, Hermanns B, Matern S. Occult celiac disease prevents penetrance of hemochromatosis. **World J Gastroenterol.** 11:3323-6, 2005
96. Schumann K, Kroll S, Weiss G, Frank J, Biesalski HK, Friel J, Solomons NW. Monitoring of hematological, inflammatory and oxidative reactions to acute oral iron exposure in human volunteers: Preliminary screening for selection of potentially-responsive biomarkers. **Toxicology** 212:10-23, 2005
97. Schroecksnadel K, Wirleitner B, Schennach H, Weiss G, Fuchs D. Anti-inflammatory compound resveratrol suppresses homocysteine formation in stimulated human peripheral blood mononuclear cells in vitro. **Clin Chem Lab Med.** 43:1084-8, 2005
98. Wolf AM, Wolf D, Rumpold H, Ludwiczek S, Enrich B, Gastl G, Weiss G, Tilg H. The kinase inhibitor imatinib mesylate inhibits TNF- $\alpha$  production in vitro and prevents TNF-dependent acute hepatic inflammation. **Proc Natl Acad Sci U S A.** 102:13622-7, 2005
99. Schroecksnadel K, Frick B, Winkler C, Wirleitner B, Weiss G, Fuchs D. Atorvastatin suppresses homocysteine formation in stimulated human peripheral blood mononuclear cells. **Clin Chem Lab Med.** 43(12):1373-6, 2005
100. Stelzmueller I, Biebl M, Wiesmayr S, Eller M, Hoeller E, Fille M, Weiss G, Lass-Floerl C, Bonatti H. *Ralstonia pickettii*- innocent bystander or a potential threat? **Clin Microbiol Infect.** 12:99-101, 2006

101. Theurl I, Mattle V, Seifert M, Mariani M, Marth C, Weiss G. Dysregulated monocyte iron homeostasis and erythropoietin formation in patients with anemia of chronic disease. **Blood** 107:4142-4148, 2006
102. Metzler B, Jehle J, Theurl I, Ludwiczek S, Obrist P, Pachigner O, Weiss G. Short term protective effects of iron in a murine model of ischemia/reperfusion. **Biometals** 20, 205-215, 2007
103. Stelzmueller I, Wiesmayr S, Eller M, Fille M, Lass-Floerl C, Weiss G, Hengster P, Margreiter R, Bonatti H. Enterocolitis due to simultaneous infection with Rotavirus and *Clostridium difficile* in adult and pediatric solid organ transplantation. **J Gastroenterol. Surgery** 11:911-7, 2007
104. Ludwiczek S, Theurl I, Muckenthaler M.U, Jakab M, Mair S M, Theurl M, Kiss J, Paulmichl M, Hentze M.W, Ritter M, Weiss G. Ca<sup>2+</sup> channel blockers reverse iron overload by a novel mechanism via divalent metal transporter-1. **Nat Med.** 13:448-454, 2007
105. Egger M, Schgoer W, Beer AG, Jeschke J, Leierer J, Theurl M, Frauscher S, Tepper OM, Niederwanger A, Ritsch A, Kearney M, Wanschitz J, Gurtner GC, Fischer-Colbrie R, Weiss G, Piza-Katzer H, Losordo DW, Patsch JR, Schratzberger P, Kirchmair R. Hypoxia up-regulates the angiogenic cytokine secretoneurin via an HIF-1 {alpha}- and basic FGF-dependent pathway in muscle cells. **FASEB J.** 21:2906-17, 2007
106. Nairz M, Theurl I, Ludwiczek S, Theurl M, Mair SM, Fritsche G, Weiss G. The co-ordinated regulation of iron homeostasis in murine macrophages limits the availability of iron for intracellular *Salmonella typhimurium*. **Cell Microbiol.** 9:2126-40, 2007
107. Schroecksadel K, Weiss G, Stanger O, Teerlink T, Fuchs D. Increased asymmetric dimethylarginine concentrations in stimulated peripheral blood mononuclear cells. **Scand J Immunol.** 65:525-9, 2007
108. Fritsche G, Nairz M, Theurl I, Mair S, Bellmann-Weiler R, Barton HC, Weiss G. Modulation of macrophage iron transport by Nramp1 (Slc11a1). **Immunobiology** 212:751-7, 2007
109. Bellmann-Weiler R, Schroecksadel K, Holzer C, Larcher C, Fuchs D, Weiss G. IFN-gamma mediated pathways in patients with fatigue and chronic active Epstein Barr virus-infection. **J Affect Disord.** 108:171-176, 2007
110. Theurl I, Theurl M, Seifert M, Mair S, Nairz M, Rumpold H, Zoller H, Bellmann-Weiler R, Niederegger H, Talasz H, Weiss G. Autocrine formation of hepcidin induces iron retention in human monocytes. **Blood** 111:2392-9, 2008.

111. Aigner E, Theurl I, Theurl M, Lederer D, Haufe H, Dietze O, Strasser M, Datz C, Weiss G. Pathways underlying iron accumulation in human non-alcoholic fatty liver disease. **Am J Clin Nutr** 87:1374-83, 2008
112. Theurl M, Theurl I, Hochegger K, Obrist P, Subramaniam N, van Rooijen N, Schuemann K, Weiss G. Kupffer cells modulate iron homeostasis in mice via regulation of hepcidin expression. **J Mol Med.** 86:225-235, 2008
113. Schroecksnadel K, Walter RB, Weiss G, Mark M, Reinhart WH, Fuchs D. Association between plasma thiols and immune activation marker neopterin in stable coronary heart disease. **Clin Chem Lab Med.** 22:881-9, 2008
114. Schroecksnadel K, Sarcletti M, Winkler C, Mumelter B, Weiss G, Fuchs D, Kemmler G, Zangerle R. Quality of life and immune activation in patients with HIV-infection. **Brain Behav Immun.** 22:881-9, 2008
115. Seifert M, Nairz M, Schroll A, Schrettl M, Haas H, Weiss G. Effects of the *Aspergillus fumigatus* siderophore systems on the regulation of macrophage immune effector pathways and iron homeostasis. **Immunobiology** 213:767-78, 2008
116. Nairz M, Fritsche G, Theurl M, Theurl I, Mair SM, Brunner P, Hantke K, Weiss G. Interferon- $\gamma$  limits the availability of iron for intramacrophage *Salmonella typhimurium*. **Eur J Immunol.** 38:1923-36, 2008
117. Aigner E, Theurl I, Haufe H, Seifert M, Hohla F, Scharinger L, Stickel F, Weiss G\*, Datz C\*. Copper Availability contributes to iron perturbations in human non-alcoholic fatty liver disease. \* corresponding and senior authors; **Gastroenterology** 135:680-8, 2008
118. Fritsche G, Nairz M, Werner ER, Barton H, Weiss G. *Nramp1*-functionality increases iNOS expression via repression of IL-10 formation. **Eur J Immunol.** 38:3060-7, 2008
119. Theurl I, Aigner E, Theurl M, Nairz M, Seifert M, Schroll A, Sonnweber T, Eberwein L, Witcher DR, Murphy AT, Wroblewski VJ, Wurz E, Datz C, Weiss G. Regulation of iron homeostasis in anemia of chronic disease and iron deficiency anemia: diagnostic and therapeutic implications. **Blood** 113:5277-86, 2009
120. Nairz M, Fritsche G, Crouch ML, Barton HC, Fang FC, Weiss G. Slc11a1 limits intracellular growth of *Salmonella enterica* sv. Typhimurium by promoting macrophage immune effector functions and impairing bacterial iron acquisition. **Cell Microbiol.** 11:1365-81, 2009
121. Weiss G, Theurl I, Eder S, Koppelstaetter C, Kurz K, Sonnweber T, Kobold U, Mayer G. Serum hepcidin concentration in chronic haemodialysis patients: associations and effects of dialysis, iron and erythropoietin therapy. **Eur J Clin Invest.** 39:883-90, 2009

122. Nairz M, Theurl I, Schroll A, Theurl M, Fritsche G, Lindner E, Seifert M, Crouch M-L, Hantke K, Akira S, Fang FC, Weiss G. Absence of functional Hfe protects mice from invasive *Salmonella enterica* serovar Typhimurium infection via induction of lipocalin-2. **Blood** 114:3642-51, 2009
123. Gordeuk VR, Moyo VM, Nourai M, Gangaidzo IT, Murphree NL, Gomo ZA, Boelaert JR, Weiss G. Circulating cytokines in pulmonary tuberculosis according to HIV status and dietary iron content. **Int J Tuberc Lung Dis**. 13:1267-73, 2009
124. Kurz K, Teerlink T, Sarcletti M, Weiss G, Zangerle R, Fuchs D. Plasma concentrations of the cardiovascular risk factor asymmetric dimethylarginine (ADMA) are increased in patients with HIV-1 infection and correlate with immune activation markers. **Pharmacol Res**. 60: 508-14, 2009.
125. Schuemann K, Herbach N, Kerling C, Seifert M, Prysich I, Reich J, Weiss G, Pantopoulos K. Iron absorption and distribution in TNF $\Delta$ /ARE<sup>+</sup> mice, a model of chronic inflammation. **J Trace Elements Biol Medicine** 24:58-66, 2010
126. Heiland GR, Aigner E, Dallos T, Sahinbegovic E, Krenn V, Axmann R, Plack B, Weiss G, Datz C, Schett G, Zwerina J. Synovial immunopathology in hemochromatosis arthropathy. **Ann Rheum Dis**. 69:1214-9, 2010.
127. Theurl I, Finkenstedt A, Schroll A, Nairz M, Sonnweber T, Bellmann-Weiler R, Theurl M, Seifert M, Wroblewski VJ, Murphy AT, Witcher D, Zoller H, Weiss G. Growth differentiation factor 15 in anaemia of chronic disease, iron deficiency anaemia and mixed type anaemia. **Br J Haematol**. 148:449-55, 2010
128. Schroll A, Eller K, Huber JM, Theurl IM, Wolf AM, Weiss G\*, Rosenkranz AR\*. Tim3 Is Upregulated and Protective in Nephrotoxic Serum Nephritis. \* corresponding and senior authors **Am J Pathol**. 176:1716-24, 2010
129. Bellmann-Weiler R, Ausserwinkler M, Kurz K, Theurl I, Weiss G. Clinical potential of C-reactive protein and Procalcitonin serum concentrations to guide differential diagnosis and clinical management of pneumococcal and Legionella pneumonia. **J Clin Microbiol**. 48:1915-7, 2010
130. Bellmann-Weiler R, Martinz V, Kurz K, Engl S, Feistritzer C, Fuchs D, Rupp J, Paldanius M, Weiss G. Modification of *Chlamydia pneumoniae* infection in human monocytic and endothelial cells by nutritional factors. **Immunobiology** 215:842-8, 2010
131. Volgger B, Kurz K, Zöschg K, Theurl I, König-Ciresa-A, Marth C, Weiss G. Importance of erythropoietin receptor expression in tumor tissue for the clinical course of breast cancer. **Anticancer Res**. 30:3721-6, 2010

132. Aigner E, Strasser M, Haufe H, Sonnweber T, Hohla F, Stadlmayr A, Solioz M, Tilg H, Patsch W, Weiss G, Stickel F, Datz C. A Role for Low Hepatic Copper Concentrations in Nonalcoholic Fatty Liver Disease. **Am J Gastroenterol.** 105:1978-85, 2010
133. Sonnweber T, Theurl I, Seifert M, Schroll A, Auer S, Mayer G, Weiss G. Impact of Iron Treatment on Immune Effector Function and Cellular Iron Status of Circulating Monocytes in Dialysis Patients. **Nephrol Dialysis Transplant.** 26: 977-87, 2011
134. Solomons NW, Romero-Abal ME, Weiss G, Michalke B, Schûmann K. Bioavailability of zinc from NutriSet zinc tablets compared with aqueous zinc sulfate. **Eur J Clin Nutr.** 65:125-31, 2011
135. Bellmann-Weiler R, Beikircher B, Kurz K, Theurl I, Weiss G. Accuracy of bedside antigen tests in the diagnosis of new influenza A/H1N1v infection. **Clin Microbiol Infect.** 17:235-237, 2011
136. Sohn YS, Mitterstiller AM, Breuer W, Weiss G, Cabantchik ZI. Rescuing iron overloaded macrophages by conservative relocation of the accumulated metal. **Br J Pharmacol.** 164:406-418, 2011
137. Thuma PE, van Dijk J, Bucala R, Debebe Z, Nekhai S, Kuddo T, Nourai M, Weiss G, Gordeuk VR. Distinct Clinical and Immunologic Profiles in Severe Malarial Anemia and Cerebral Malaria in Zambia. **J Infect Dis.** 203:211-9, 2011
138. Nairz M, Schroll A, Moschen AR, Sonnweber T, Theurl M, Theurl I, Taub N, Jamnig C, Neutrauer D, Huber LA, Tilg H, Moser PL, Weiss G. Erythropoietin contrastingly affects bacterial infection and experimental colitis by inhibiting NF- $\kappa$ B-inducible immune pathways. **Immunity** 34:61-74, 2011
139. Pichler I, Minelli C, Sanna S, Tanaka T, Schwienbacher C, Naitza S, Porcu E, Pattaro C, Busonero F, Zanon A, Maschio A, Melville SA, Grazia Piras M, Longo DL, Guralnik J, Bandinelli S, Aigner E, Murphy AT, Wroblewski V, Marroni F, Theurl I, Gnewuch C, Schadt E, Mitterer M, Schlessinger D, Ferrucci L, Witcher DR, Hicks AA, Weiss G, Uda M, Pramstaller PP. Identification of a common variant in the TFR2 gene implicated in the physiological regulation of serum iron levels. **Hum Mol Genet.** 20:1232-40, 2011
140. Tjalsma H, Laarakkers CM, van Swelm RP, Theurl M, Theurl I, Kemna EH, van der Burgt YE, Venselaar H, Dutilh BE, Russel FG, Weiss G, Masereeuw R, Fleming RE, Swinkels DW. Mass spectrometry analysis of hepcidin peptides in experimental mouse models. **PLoS One** 6:e16762, 2011

141. Schuemann K, Solomons NW, Laarakkers CM, Romero-Abal ME, Kroll S, Weiss G, Swinkels DW. Reproducibility of and Correspondence among Different Hepcidin Forms in Blood and Urine and Their Relationships to Iron Status in Healthy, Male Guatemalan Volunteers Observed over 9 Weeks. **Ann Nutr Metab.** 58:158-66, 2011
142. Nachbauer W, Hering S, Seifert M, Steinkellner H, Sturm B, Scheiber-Mojdehkar B, Reindl M, Strasak A, Poewe W, Weiss G, Boesch S. Effects of Erythropoietin on Frataxin Levels and Mitochondrial Function in Friedreich Ataxia - a Dose-Response Trial. **Cerebellum** 10:763-769, 2011
143. Theurl I, Schroll A, Sonnweber T, Nairz M, Theurl M, Willenbacher W, Eller K, Wolf D, Seifert M, Sun CC, Babitt JL, Hong CC, Menhall T, Gearing P, Lin HY, Weiss G. Pharmacologic inhibition of hepcidin expression reverses anemia of chronic disease in rats. **Blood** 118:4977-84, 2011
144. Mair S, Nairz M, Bellmann-Weiler R, Muehlbacher T, Schroll A, Theurl I, Moser PL, Talasz H, Fang FC, Weiss G. Nifedipine affects the course of *Salmonella typhimurium* infection by modulating macrophage iron homeostasis. **J Infect Dis** 204:685-694, 2011
145. Theurl I, Schroll A, Nairz M, Seifert M, Theurl M, Sonnweber T, Kulaksiz H, Weiss G. Pathways for the regulation of hepcidin expression in anemia of chronic disease and iron deficiency anemia in vivo. **Haematologica** 96:1761-9, 2011
146. Kloss-Brandstätter A, Erhart G, Lamina C, Meister B, Haun M, Coassin S, Seifert M, Klein-Franke A, Paulweber B, Kedenko L, Kollerits B, Swinkels DW, Vermeulen SH, Galesloot TE, Kronenberg F, Weiss G. Candidate gene sequencing of SLC11A2 and TMPRSS6 in a family with severe anaemia: common SNPs, rare haplotypes, no causative mutation. **PLoS One** 7:e35015, 2012
147. Schümann K, Kroll S, Romero-Abal ME, Georgiou NA, Marx JJ, Weiss G, Solomons NW. Impact of oral iron challenges on circulating non-transferrin-bound iron in healthy guatemalan males. **Ann Nutr Metab.** 60:98-107, 2012
148. Sohn YS, Ghoti H, Breuer W, Rachmilewitz EA, Attar S, Weiss G, Cabantchik IZ. The role of endocytic pathways in cellular uptake of plasma non-transferrin iron. **Haematologica** 97:670-8, 2012
149. Sonnweber T, Röss C, Nairz M, Theurl I, Schroll A, Murphy AT, Wroblewski V, Witcher DR, Moser P, Ebenbichler CF, Kaser S, Weiss G. High-fat diet causes iron deficiency via hepcidin-independent reduction of duodenal iron absorption. **J Nutr Biochem.** 23:1600-8, 2012

150. Grif K, Fille M, Würzner R, Weiss G, Lorenz I, Gruber G, Eschertzhuber S, Nachbaur D, Lass-Flörl C, Orth D. Rapid detection of bloodstream pathogens by real-time PCR in patients with sepsis. **Wien Klin Wochenschr.** 124:266-70, 2012
151. Taub N, Nairz M, Hilber D, Hess MW, Weiss G, Huber LA. The late endosomal adaptor p14 is a macrophage host-defense factor against Salmonella infection. **J Cell Sci.** 125:2698-708, 2012
152. Kurz K, Garimorth K, Joannidis M, Fuchs D, Petzer A, Weiss G. Altered immune responses during septicemia in patients suffering from haematological malignancies. **Int J Immunopathol Pharmacol.** 25:147-56, 2012
153. Kurz K, Fiegl M, Holzner B, Giesinger J, Pircher M, Weiss G, Denz HA, Fuchs D. Fatigue in patients with lung cancer is related with accelerated tryptophan breakdown. **PLoS One** 7:e36956, 2012
154. Kurz K, Teerlink T, Sarcletti M, Weiss G, Zangerle R, Fuchs D. Asymmetric dimethylarginine concentrations decrease in patients with HIV infection under antiretroviral therapy. **Antivir Ther.** 17:1021-7, 2012
155. Fritsche G, Nairz M, Libby SJ, Fang FC, Weiss G. Slc11a1 (Nramp1) impairs growth of Salmonella enterica serovar typhimurium in macrophages via stimulation of lipocalin-2 expression. **J Leukoc Biol.** 92:353-9, 2012
156. Schroll A, Eller K, Feistritzer C, Nairz M, Sonnweber T, Moser PA, Rosenkranz AR, Theurl I, Weiss G. Lipocalin 2 ameliorates granulocyte functionality. **Eur J Immunol.** 42:3346-57, 2012
157. Schümann K, Solomons NW, Romero-Abal ME, Orozco M, Weiss G, Marx J. Oral administration of ferrous sulfate, but not of iron polymaltose or sodium iron ethylenediaminetetraacetic acid (NaFeEDTA), results in a substantial increase of non-transferrin-bound iron in healthy iron-adequate men. **Food Nutr Bull.** 33:128-36, 2012
158. Wermke M, Schmidt A, Middeke JM, Sockel K, von Bonin M, Schönefeldt C, Mair S, Plodeck V, Laniado M, Weiss G, Schetelig J, Ehninger G, Theurl I, Bornhäuser M, Platzbecker U. MRI-based liver iron content predicts for nonrelapse mortality in MDS and AML patients undergoing allogeneic stem cell transplantation. **Clin Cancer Res.** 18:6460-8, 2012
159. Schroecksadel S, Gostner J, Jenny M, Kurz K, Schennach H, Weiss G, Fuchs D. Immunomodulatory effects in vitro of vitamin K antagonist acenocoumarol. **Thromb Res.** 131:e264-9, 2013
160. Bellmann-Weiler R, Schroll A, Engl S, Nairz M, Talasz H, Seifert M, Weiss G. Neutrophil gelatinase-associated lipocalin and interleukin-10 regulate

- intramacrophage *Chlamydia pneumoniae* replication by modulating intracellular iron homeostasis. **Immunobiology** 218:969-78, 2013
161. Jankowska EA, Malyszko J, Ardehali H, Koc-Zorawska E, Banasiak W, von Haehling S, Macdougall IC, Weiss G, McMurray JJ, Anker SD, Gheorghiade M, Ponikowski P. Iron status in patients with chronic heart failure. **Eur Heart J.** 34:827-34, 2013
162. Sun CC, Vaja V, Chen S, Theurl I, Stepanek A, Brown DE, Cappellini MD, Weiss G, Hong CC, Lin HY, Babitt JL. A hepcidin lowering agent mobilizes iron for incorporation into red blood cells in an adenine-induced kidney disease model of anemia in rats. **Nephrol Dial Transplant.** 28:1733-43, 2013
163. Eller K, Schroll A, Banas M, Kirsch AH, Huber JM, Nairz M, Skvortsov S, Weiss G, Rosenkranz AR, Theurl I. Lipocalin-2 expressed in innate immune cells is an endogenous inhibitor of inflammation in murine nephrotoxic serum nephritis. **PLoS One** 8:e67693, 2013
164. Nairz M, Schleicher U, Schroll A, Sonnweber T, Theurl I, Ludwiczek S, Talasz H, Brandacher G, Moser PL, Muckenthaler MU, Fang FC, Bogdan C, Weiss G. Nitric oxide-mediated regulation of ferroportin-1 controls macrophage iron homeostasis and immune function in *Salmonella* infection, **J Exp Med** 210:855-873, 2013
165. Goetze O, Schmitt J, Spliethoff K, Theurl I, Weiss G, Swinkels DW, Tjalsma H, Maggiorini M, Krayenbühl P, Rau M, Wojtal K, Müllhaupt B, Fried M, Gassmann M, Lutz T, Geier A. Adaptation of iron transport and metabolism to acute high altitude hypoxia in mountaineers. **Hepatology** 58:2153-62, 2013
166. Warszawska JM, Gawish R, Sharif O, Sigel S, Doninger B, Lakovits K, Mesteri I, Nairz M, Boon L, Spiel A, Fuhrmann V, Strobl B, Müller M, Schenk P, Weiss G, Knapp S. Lipocalin 2 deactivates macrophages and worsens pneumococcal pneumonia outcomes. **J Clin Invest.** 123:3363-72, 2013
167. Schümann K, Solomons NW, Orozco M, Romero-Abal ME, Weiss G. Differences in circulating non-transferrin-bound iron after oral administration of ferrous sulfate, sodium iron EDTA, or iron polymaltose in women with marginal iron stores. **Food Nutr Bull.** 34:185-93, 2013
168. Wenisch C, Weiss G, Lechner A, Meilinger M, Rittler K, Muzatko N, Pomgyi B, Kutilek M, Bellmann-Weiler R, Fürst UM, Andorfer A, Wenisch JM. Epidemiology of patients hospitalised for pneumonia in 2011: a prospective multicentre cohort study. **Wien Klin Wochenschr.** 125:621-8, 2013
169. Reinisch W, Chowers Y, Danese S, Dignass A, Gomollón F, Haagen Nielsen O, Lakatos PL, Lees CW, Lindgren S, Lukas M, Mantzaris GJ, Michetti P, Moum B, Peyrin-Biroulet L, Toruner M, van der Woude J, Weiss G, Stoevelaar H. The management of iron deficiency in inflammatory bowel disease – an online tool



developed by the RAND/UCLA appropriateness method. **Aliment Pharmacol Ther.** 38:1109-18, 2013

170. Hohl M, Ardehali H, Azuaje FJ, Breckenridge RA, Doehner W, Eaton P, Ehret GB, Fujita T, Gaetani R, Giacca M, Hasenfuß G, Heymans S, Leite-Moreira AF, Linke WA, Linz D, Lyon A, Mamas MA, Orešič M, Papp Z, Pedrazzini T, Piepoli M, Prosser B, Rizzuto R, Tarone G, Tian R, van Craenenbroeck E, van Rooij E, Wai T, Weiss G, Maack C. Meeting highlights from the 2013 European Society of Cardiology Heart Failure Association Winter Meeting Translational Heart Failure Research. **Eur J Heart Fail.** 16:6-14, 2014
171. Sonnweber T, Nachbaur D, Schroll A, Nairz M, Seifert M, Demetz E, Haschka D, Mitterstiller AM, Kleinsasser A, Burtscher M, Trübsbach S, Murphy AT, Wroblewski V, Witcher DR, Mleczko-Sanecka K, Vecchi C, Muckenthaler MU, Pietrangelo A, Theurl I, Weiss G. Hypoxia induced downregulation of Hepsidin is mediated by platelet derived growth factor BB. **Gut** 63:1951-9, 2014
172. Martinez-Pinna R, Lindholt JS, Madrigal-Matute J, Blanco-Colio LM, Esteban Salan M, Torres-Fonseca MM, Lefebvre T, Delbosc S, Laustsen J, Driss F, Vega de Ceniga M, Gouya L, Weiss G, Egido J, Mailhac O, Michel JB, Martin Ventura JL. From tissue iron retention to low systemic haemoglobin levels, new pathophysiological biomarkers of human abdominal aortic aneurysm. **Thromb Haemost.** 112:87-95, 2014
173. Tancevski I, Nairz M, Duwensee K, Auer K, Schroll A, Heim C, Feistritzer C, Hoefler J, Gerner RR, Moschen AR, Heller I, Pallweber P, Li X, Theurl M, Demetz E, Wolf AM, Wolf D, Eller P, Ritsch A, Weiss G. Fibrates ameliorate the course of bacterial sepsis by promoting neutrophil recruitment via CXCR2. **EMBO Mol Med.** 6:810-20, 2014
174. Pechlaner R, Kiechl S, Willeit P, Demetz E, Haun M, Weger S, Oberhollenzer F, Kronenberg F, Bonora E, Weiss G, Willeit J. Haptoglobin 2-2 Genotype is Not Associated With Cardiovascular Risk in Subjects With Elevated Glycohemoglobin - Results From the Bruneck Study. **J Am Heart Assoc.** 3(3):e000732, 2014
175. Theurl M, Nairz M, Schroll A, Sonnweber T, Asshoff M, Haschka D, Seifert M, Willenbacher W, Wilflingseder D, Posch W, Murphy AT, Witcher DR, Theurl I, Weiss G. Hepsidin as a predictive factor and therapeutic target in erythropoiesis-stimulating agent treatment for anemia of chronic disease in rats. **Haematologica** 99:1516-24, 2014
176. Demetz E, Schroll A, Auer K, Heim C, Patsch JR, Eller P, Theurl M, Theurl I, Theurl M, Seifert M, Lener D, Stanzl U, Haschka D, Asshoff M, Dichtl S, Nairz M, Huber E, Stadlinger M, Moschen AR, Li X, Pallweber P, Scharnagl H, Stojakovic T, März W, Kleber ME, Garlaschelli K, Uboldi P, Catapano AL, Stellaard F, Rudling M, Kuba K, Imai Y, Arita M, Schuetz JD, Pramstaller PP, Tietge UJ, Trauner M, Norata GD, Claudel T, Hicks AA, Weiss G\*, Tancevski I\*. The arachidonic acid metabolome serves as a conserved regulator of

cholesterol metabolism. **Cell Metabolism** 20:787-98, 2014 \* corresponding and senior authors

177. Zitt E, Sturm G, Kronenberg F, Neyer U, Knoll F, Lhotta K, Weiss G. Iron supplementation and mortality in incident dialysis patients: an observational study. **PLoS One** 9:e114144, 2014
178. Porter JB, Walter PB, Neumayr LD, Evan P, Bansal S, Garbowski M, Weyhmler MG, Harmatz PR, Wood JC, Miller JL, Byrnes C, Weiss G, Seifert M, Grosse R, Grabowski D, Schmidt A, Fischer R, Nielsen P, Niemeyer C, Vichinsky E. Mechanism of plasma non-transferrin bound iron generation: insights from comparing transfused diamond blackfan anaemia with sickle cell and thalassaemia patients. **Br J Haematol.** 167:692-6, 2014
179. Gallina V, Binazzi R, Golemi A, Farsad M, Weiss G, Wiedermann CJ. Imported visceral leishmaniasis – unexpected bone marrow diagnosis in a patient with fever, pancytopenia, and splenomegaly. **Am J Blood Res.** 15:101-5, 2014
180. Pechlaner R, Willeit P, Summerer M, Santer P, Egger G, Kronenberg F, Demetz E, Weiss G, Tsimikas S, Witztum JL, Willeit K, Iglseder B, Paulweber B, Kedenko L, Haun M, Meisinger C, Gieger C, Müller-Nurasyid M, Peters A, Willeit J, Kiechl S. Heme oxygenase-1 gene promoter microsatellite polymorphism is associated with progressive atherosclerosis and incident cardiovascular disease. **Arterioscler Thromb Vasc Biol.** 35:229-36, 2015
181. Wilflingseder D, Schroll A, Hackl H, Gallasch R, Frampton D, Lass-Flörl C, Pancino G, Saez-Cirion A, Lambotte O, Weiss L, Kellam P, Trajanoski Z, Geijtenbeek T, Weiss G, Posch W. Immediate T-Helper 17 Polarization Upon Triggering CD 11b/c on HIV-Exposed Dendritic Cells. **J Infect Dis.** 212:44-56, 2015
182. Altamura S, Bärtsch P, Dehnert C, Maggiorini M, Weiss G, Theurl I, Muckenthaler MU, Mairbörl H. Increased hepcidin levels in high-altitude pulmonary edema. **J Appl Physiol** 118:292-8, 2015
183. Haschka D, Nairz M, Demetz E, Wienerroither S, Decker T, Weiss G. Contrasting regulation of macrophage iron homeostasis in response to infection with *Listeria monocytogenes* depending on localization of bacteria. **Metallomics** 7:1036-45, 2015
184. Nairz M, Ferring-Appel D, Casarrubea D, Sonnweber T, Viatte L, Schroll A, Haschka D, Fang FC, Hentze MW\*, Weiss G\*, Galy B. Iron Regulatory Proteins Mediate Host Resistance to *Salmonella* Infection. **Cell Host Microbe.** 18:254-61, 2015\* corresponding authors
185. Schaefer B, Haschka D, Finkenstedt A, Petersen BS, Theurl I, Henninger B, Janecke AR, Wang CY, Lin HY, Veits L, Vogel W, Weiss G, Franke A, Zoller H. Impaired hepcidin expression in alpha-1-antitrypsin deficiency associated

- with iron overload and progressive liver disease. **Hum Mol Genet.** 24:6254-63, 2015
186. Nairz M, Schroll A, Haschka D, Dichtl S, Sonnweber T, Theurl I, Theurl M, Lindner E, Demetz E, Aßhoff M, Bellmann-Weiler R, Müller R, Gerner RR, Moschen AR, Baumgartner N, Moser PL, Talasz H, Tilg H, Fang FC, Weiss G. Lipocalin-2 ensures host defense against SalmonellaTyphimurium by controlling macrophage iron homeostasis and immune response. **Eur J Immunol.** 45:3073-6, 2015
187. Casimiro de Almeida J, Lou-Meda R, Olbert M, Seifert M, Weiss G, Wiegerinck ET, Swinkels DW, Solomons NW, Schümann K. The Growth Attainment, Hematological, Iron Status and Inflammatory Profile of Guatemalan Juvenile End-Stage Renal Disease Patients. **PLoS One** 10:e0140062, 2015
188. Kurz K, Herold M, Russe E, Klotz W, Weiss G, Fuchs D. Effects of Antitumor Necrosis Factor Therapy on Osteoprotegerin, Neopterin, and sRANKL Concentrations in Patients with Rheumatoid Arthritis. **Dis Markers.** 2015:276969, 2015
189. Siegert I, Schödel J, Nairz M, Schatz V, Dettmer K, Dick C, Kalucka J, Franke K, Ehrenschrwender M, Schley G, Beneke A, Sutter J, Moll M, Hellerbrand C, Wielockx B, Katschinski DM, Lang R, Galy B, Hentze MW, Koivunen P, Oefner PJ, Bogdan C, Weiss G, Willam C, Jantsch J. Ferritin-Mediated Iron Sequestration Stabilizes Hypoxia-Inducible Factor-1 upon LPS Activation in the Presence of Ample Oxygen. **Cell Rep.** 13:2048-55, 2015
190. Pechlaner R, Kiechl S, Mayr M, Santer P, Weger S, Haschka D, Bansal SS, illeit J, Weiss G. Correlates of serum hepcidin levels and its association with cardiovascular disease in an elderly general population. **Clin Chem Lab Med.** 54:151-161, 2016
191. Wieser V, Tymoszuk P, Adolph TE, Grander C, Grabherr F, Enrich B, Pfister A, Lichtmanegger L, Gerner R, Drach M, Moser P, Zoller H, Weiss G, Moschen AR, Theurl I, Tilg H. Lipocalin 2 drives neutrophilic inflammation in alcoholic liver disease. **J Hepatol.** 64:872-80, 2016
192. Macdougall IC, Bircher AJ, Eckardt KU, Obrador GT, Pollock CA, Stenvinkel P, Swinkels DW, Wanner C, Weiss G, Chertow GM; Conference Participants. Iron management in chronic kidney disease: conclusions from "Kidney Disease: Improving Global Outcomes" (KDIGO) Controversies Conference. **Kidney Int.** 89:28-39, 2016.
193. Mitterstiller AM, Haschka D, Dichtl S, Nairz M, Demetz E, Talasz H, Soares M, Einwallner E, Esterbauer H, Fang FC, Geley S, Weiss G. Heme oxygenase 1 controls early innate immune response of macrophages to Salmonella typhimurium infection. **Cell Microbiol.** 18:1374-89, 2016

194. Pechlaner R, Weiss G, Bansal S, Mayr M, Santer P, Pallhuber B, Notdurfter M, Bonora E, Willeit J, Kiechl S. Inadequate hepcidin serum concentrations predict incident type 2 diabetes mellitus. **Diabetes Metab Res Rev.** 32:187-92, 2016
195. Leierer J, Rudnicki M, Braniff SJ, Perco P, Koppelstaetter C, Mühlberger I, Eder S, Kerschbaum J, Schwarzer C, Schroll A, Weiss G, Schneeberger S, Wagner S, Königsrainer A, Böhmig GA, Mayer G. Metallothioneins and renal ageing. **Nephrol Dial Transplant.** 31:1444-52, 2016
196. Theurl I, Hilgendorf I, Nairz M, Tymoszuk P, Haschka D, Asshoff M, He S, Gerhardt LMS, Holderried TAW, Seifert M, Sopper S, Fenn AM, Anzai A, Rattik S, McAlpine C, Theurl M, Wieghofer P, Iwamoto Y, Weber GF, Harder NK, Chousterman BG, Arvedson TL, McKee M, Wang F, Lutz OMD, Rezoagli E, Babitt JL, Berra L, Prinz M, Nahrendorf M, Weiss G, Weissleder R, Lin HY, Swirski FK. On-demand erythrocyte disposal and iron recycling requires transient macrophages in the liver. **Nature Medicine** 22:945-51, 2016
197. Riedl M, Hofer J, Giner T, Rosales A, Häffner K, Simonetti GD, Walden U, Maier T, Heininger D, Jeller V, Weiss G, van den Heuvel L, Zimmerhackl LB, Würzner R, Jungraithmayr TC. Novel biomarker and easy to perform ELISA for monitoring complement inhibition in patients with atypical hemolytic uremic syndrome treated with eculizumab. **J Immunol Methods.** 435:60-7, 2016
198. Möst J, Weiss G. Consecutive Infections With Influenza A and B Virus in Children During the 2014-2015 Seasonal Influenza Epidemic. **J Infect Dis.** 214:1139-41, 2016
199. Moschen AR, Gerner RR, Wang J, Klepsch V, Adolph TE, Reider SJ, Hackl H, Pfister A, Schilling J, Moser PL, Kempster SL, Swidsinski A, Orth Höller D, Weiss G, Baines JF, Kaser A, Tilg H. Lipocalin 2 Protects from Inflammation and Tumorigenesis Associated with Gut Microbiota Alterations. **Cell Host Microbe** 19:455-69, 2016
200. Pfeifhofer-Obermair C, Albrecht-Schgoer K, Peer S, Nairz M, Siegmund K, Klepsch V, Haschka D, Thuille N, Hermann-Kleiter N, Gruber T, Weiss G, Baier G. Role of PkCtheta in macrophage-mediated immune response to Salmonella typhimurium infection in mice. **Cell Commun Signal.** 14:14, 2016
201. Fava LL, Schuler F, Sladky V, Haschka MD, Soratroi C, Eiterer L, Demetz E, Weiss G, Geley S, Nigg EA, Villunger A. The PIDosome activates p53 in response to supernumerary centrosomes. **Genes Dev.** 31:34-45, 2017
202. Röss C, Moschen AR, Thoeni V, Ebenbichler CF, Weiss H, Molnar C, Weiss G, Tilg H, Kaser S. Effect of weight loss on heme oxygenase – 1 tissue expression. **Diabetes Metab.** 43:389-391, 2017
203. Asshoff M, Petzer V, Warr MR, Haschka D, Tymoszuk P, Demetz E, Seifert M, Posch W, Nairz M, Maciejewski P, Fowles P, Burns CJ, Smith G, Wagner KU,

- Weiss G, Whitney JA, Theurl I. **Momelotinib inhibits ACVR1/ALK2, decreases hepcidin production, and ameliorates anemia of chronic disease in rodents.** *Blood* 129:1823-1830, 2017
204. Resch T, Ashraf MI, Ritschl PV, Ebner S, Fabritius C, Brunner A, Schäfer G, Regele H, Günther J, Weiss G, Kotsch K. Disturbances in iron homeostasis result in accelerated rejection after experimental heart transplantation. *J Heart Lung Transplant*. 36:732-743, 2017
205. Mosheimer BA, Oppl B, Zandieh S, Fillitz M, Keil F, Klaushofer K, Weiss G, Zwerina J. Bone Involvement in Rosai-Dorfman Disease (RDD): a Case Report and Systematic Literature Review. *Curr Rheumatol Rep*. 19:29, 2017
206. Pizzini A, Lunger F, Sahanic A, Nemati N, Fuchs D, Weiss G, Kurz K, Bellmann-Weiler R. Diagnostic and Prognostic Value of Inflammatory Parameters Including Neopterin in the Setting of Pneumonia, COPD, and Acute Exacerbations. *COPD*. 14:298-303, 2017
207. Volani C, Caprioli G, Calderisi G, Sigurdsson BB, Rainer J, Gentilini I, Hicks AA, Pramstaller PP, Weiss G, Smarason SV, Paglia G. Pre-analytic evaluation of volumetric absorptive microsampling and integration in a mass spectrometry-based metabolomics workflow. *Anal Bioanal Chem*. 409:6263-6276, 2017
208. Nairz M, Schroll A, Haschka D, Dichtl S, Tymoszuk P, Demetz E, Moser P, Haas H, Fang FC, Theurl I, Weiss G. Genetic and Dietary Iron Overload Differentially Affect the Course of *Salmonella* Typhimurium Infection- *Front Cell Infect Microbiol*. 7:110, 2017
209. Dobner J, Röss C, Ruffinatscha K, Salzmann K, Salvenmoser W, Folie S, Wieser V, Moser P, Weiss G, Goebel G, Tilg H, Kaser S. Fat-enriched rather than high-fructose diets promote whitening of adipose tissue in a sex-dependent manner. *J Nutr Biochem*. 49:22-29, 2017
210. Wu A, Tymoszuk P, Haschka D, Heeke S, Dichtl S, Petzer V, Seifert M, Hilbe R, Sopper S, Talasz H, Bumann D, Lass-Flörl C, Theurl I, Zhang K, Weiss G. *Salmonella* utilizes zinc to subvert anti-microbial host defense of macrophages via modulation of NF- $\kappa$ B signaling. *Infect Immun*. pii: IAI.00418-17. doi: 10.1128/IAI.00418-17. [Epub ahead of print], 2017
211. Lass-Flörl C, Aigner M, Nachbaur D, Eschertzhuber S, Bucher B, Geltner C, Bellmann R, Lackner M, Orth-Höller D, Würzner R, Weiss G, Glodny B. Diagnosing filamentous fungal infections in immunocompromised patients applying computed tomography-guided percutaneous lung biopsies: a 12-year experience. *Infection*. 45:867-875, 2017
212. Nairz M, Haschka D, Dichtl S, Sonnweber T, Schroll A, Aßhoff M, Mindur JE, Moser PL, Wolf D, Swirski FK, Theurl I, Cerami A, Brines M, Weiss G.

- Cibinetide dampens innate immune cell functions thus ameliorating the course of experimental colitis. **Sci Rep.** 7:13012, 2017
213. Volani C, Doerrier C, Demetz E, Haschka D, Paglia G, Lavdas AA, Gnaiger E, Weiss G. Dietary iron loading negatively affects liver mitochondrial function. **Metallomics.** 9:1634-1644, 2017
214. Dichtl S, Haschka D, Nairz M, Seifert M, Volani C, Lutz O, Weiss G. Dopamine promotes cellular iron accumulation and oxidative stress responses in macrophages. **Biochem Pharmacol.** 148:193-201, 2017
215. Pizzini A, Filipiak W, Wille J, Ager C, Wiesenhofer H, Kubinec R, Blasko J, Tschurtschenthaler C, Mayhew CA, Weiss G, Bellmann-Weiler R. Analysis of volatile organic compounds in the breath of patients with stable or acute exacerbation of chronic obstructive pulmonary disease. **J Breath Res.** 12:036002, 2018
216. Coraça-Huber DC, Dichtl S, Steixner S, Nogler M, Weiss G. Iron chelation destabilizes bacterial biofilms and potentiates the antimicrobial activity of antibiotics against coagulase-negative Staphylococci. **Pathog Dis.** 76, 2018
217. Dünnwald T, Held J, Balan P, Pecher O, Zeiger T, Hartig F, Mur E, Weiss G, Schobersberger W. Combined Hyperbaric Oxygen Partial Pressure at 1.4 Bar with Infrared Radiation: A Useful Tool To Improve Tissue Hypoxemia? **Med Sci Monit.** 24:4009-4019, 2018
218. Schroll A, Theurl I, Georgi E, Zange S, Rettenbacher T, Bellmann-Weiler R, Weiss G. Newly emerging ulceroglandular tularaemia in Western Austria. **Ticks Tick Borne Dis.** 9:1331-1333, 2018
219. Bellmann-Weiler R, Maass V, Arnitz R, Weiss G, Maass M, Nagl M. The endogenous antiseptic N-chlorotaurine irreversibly inactivates Chlamydia pneumoniae and Chlamydia trachomatis. **J Med Microbiol.** 67:1410-5, 2018
220. Sonnweber T, Nairz M, Theurl I, Petzer V, Tymoszyk P, Haschka D, Rieger E, Kaessmann B, Deri M, Watzinger K, Steringer-Mascherbauer R, Tancevski I, Weiss G, Löffler-Ragg J. The crucial impact of iron deficiency definition for the course of precapillary pulmonary hypertension. **PLoS One.** 13:e0203396, 2018
221. Ruffinatscha K, Röss C, Folie S, Haas S, Salzmann K, Moser P, Dobner J, Weiss G, Iruzubieta P, Arias-Loste MT, Crespo J, Tilg H, Kaser S. Metabolic effects of reduced growth hormone action in fatty liver disease. **Hepatol Int.** 12:474-481, 2018
222. Cronin SJF, Seehus C, Weidinger A, Talbot S, Reissig S, Seifert M, Pierson Y, McNeill E, Longhi MS, Turnes BL, Kreslavsky T, Kogler M, Hoffmann D, Ticevic M, da Luz Scheffer D, Tortola L, Cikes D, Jais A, Rangachari M, Rao, Paolino M, Novatchkova M, Aichinger M, Barrett L, Latremoliere A, Wirnsberger G, Lametschwandtner G, Busslinger M, Zicha S, Latini A, Robson

- SC, Waisman A, Andrews N, Costigan M, Channon KM, Weiss G, Kozlov AV, Tebbe M, Johnsson K, Woolf CJ, Penninger JM. The metabolite BH4 controls T cell proliferation in autoimmunity and cancer. **Nature** 563:564-568, 2018
223. Schiela B, Bernklau S, Malekshahi Z, Deutschmann D, Koske I, Banki Z, Thielens NM, Würzner R, Speth C, Weiss G, Stiasny K, Steinmann E, Stoiber. Active Human Complement Reduces the Zika Virus Load via Formation of the Membrane-Attack Complex. **Front Immunol.** 9:2177, 2018
224. Volani C, Paglia G, Smarason SV, Pramstaller PP, Demetz E, Pfeifhofer-Obermair C, Weiss G. Metabolic Signature of Dietary Iron Overload in a Mouse Model. **Cells.** ;7(12). pii: E264, 2018.
225. Held J, Mosheimer-Feistritz B, Gruber J, Mur E, Weiss G. Methotrexate therapy impacts on red cell distribution width and its predictive value for cardiovascular events in patients with rheumatoid arthritis. **BMC Rheumatol.** 2:6, doi: 10.1186/s41927-018-0012-, 2018
226. Klauser AS, Halpern EJ, Strobl S, Gruber J, Feuchtner G, Bellmann-Weiler R, Weiss G, Stofferin H, Jaschke W. Dual-Energy Computed Tomography Detection of Cardiovascular Monosodium Urate Deposits in Patients With Gout. **JAMA Cardiol.** 4(10):1019-1028, 2019.
227. Petzer V, Wermke M, Tymoszuk P, Wolf D, Seifert M, Ovaçin R, Berger S, Orth-Höller D, Loacker L, Weiss G, Haas H, Platzbecker U, Theurl I. Enhanced labile plasma iron in hematopoietic stem cell transplanted patients promotes *Aspergillus* outgrowth. **Blood Adv.** 3:1695-1700, 2019
228. Haschka D, Volani C, Stefani A, Tymoszuk P, Mitterling T, Holzknacht E, Heidebreder A, Coassin S, Sumbalova Z, Seifert M, Dichtl S, Theurl I, Gnaiger E, Kronenberg F, Frauscher B, Högl B, Weiss G. Association of mitochondrial iron deficiency and dysfunction with idiopathic restless legs syndrome. **Mov Disord.** 34:114-123, 2019
229. Saha S, Basu M, Guin S, Gupta P, Mitterstiller AM, Weiss G, Jana K, Ukil A. *Leishmania donovani* Exploits Macrophage Heme Oxygenase-1 To Neutralize Oxidative Burst and TLR Signaling-Dependent Host Defense. **J Immunol.** 202:827-840, 2019
230. Plank F, Stowasser B, Till D, Schgör W, Dichtl W, Hintringer F, Weiss G, Stühlinger M. Reduction of fluoroscopy dose for cardiac electrophysiology procedures: A feasibility and safety study. **Eur J Radiol.** 110:105-111, 2019
231. Dichtl S, Demetz E, Haschka D, Tymoszuk P, Petzer V, Nairz M, Seifert M, Hoffmann A, Brigo N, Würzner R, Theurl I, Karlinsey JE, Fang FC, Weiss G. Dopamine Is a Siderophore-Like Iron Chelator That Promotes Salmonella

- enterica Serovar Typhimurium Virulence in Mice. **MBio**. 10, pii: e02624-18, 2019
232. Wunsch S, Krause R, Valentin T, Prattes J, Janata O, Lenger A, Bellmann-Weiler R, Weiss G, Zollner-Schwetz I. Multicenter clinical experience of real life albavancin use in gram-positive infections. **Int J Infect Dis**. 81:210-214, 2019
233. Pizzini A, Kurz K, Santifaller J, Tschurtschenthaler C, Theurl I, Fuchs D, Weiss G, Bellmann-Weiler R. Assessment of neopterin and indoleamine 2,3-dioxygenase activity in patients with seasonal influenza: A pilot study. **Influenza Other Respir Viruses**. 13:603-609, 2019
234. Haschka D, Petzer V, Kocher F, Tschurtschenthaler C, Schaefer B, Seifert M, Sopper S, Sonnweber T, Feistritzer C, Arvedson TL, Zoller H, Stauder R, Theurl I, Weiss G, Tymoszuk P. Classical and intermediate monocytes scavenge non-transferrin-bound iron and damaged erythrocytes. **JCI Insight**. 4, pii: 98867 2019
235. Bsteh G, Haschka D, Tymoszuk P, Berek K, Petzer V, Hegen H, Wurth S, Auer M, Zinganell A, Pauli FD, Deisenhammer F, Weiss G, Berger T. Serum hepcidin levels in multiple sclerosis. **Mult Scler J Exp Transl Clin**. 5:2055217319885984, 2019
236. Möst J, Redlberger-Fritz M, Weiss G. Multiple Influenza Virus Infections in 4 Consecutive Epidemiological Seasons: A Retrospective Study in Children and Adolescents. **Open Forum Infect Dis**. 6:ofz195, 2019
237. Boehm A, Pizzini A, Sonnweber T, Loeffler-Ragg J, Lamina C, Weiss G, Tancevski I. Using Google Trends to investigate global COPD awareness. **Eur Respir J**. 54, pii: 1901339, 2019
238. Telsler J, Volani C, Hilbe R, Seifert M, Brigo N, Paglia G, Weiss G. Metabolic reprogramming of *Salmonella* infected macrophages and its modulation by iron availability and the mTOR pathway. **Microb Cell**. 6:531-543, 2019
240. Lanser L, Pölzl G, Fuchs D, Weiss G, Kurz K. Neopterin is Associated with Disease Severity and Outcome in Patients with Non-Ischaemic Heart Failure. **J Clin Med**. 8, pii: E2230, 2019
241. Riedelberger M, Penninger P, Tscherner M, Seifert M, Jenull S, Brunnhofer C, Scheidl B, Tsymala I, Bourgeois C, Petryshyn A, Glaser W, Limbeck A, Strobl B, Weiss G, Kuchler K. Type I Interferon Response Dysregulates Host Iron Homeostasis and Enhances *Candida glabrata* Infection. **Cell Host Microbe**. 27:454-466, 2020
242. Lanser L, Kink P, Egger EM, Willenbacher W, Fuchs D, Weiss G, Kurz K. Inflammation-Induced Tryptophan Breakdown is Related With Anemia, Fatigue, and Depression in Cancer. **Front Immunol**. 11:249, 2020



243. Pizzini A, Burkert F, Theurl I, Weiss G, Bellmann-Weiler R. Prognostic impact of high sensitive Troponin T in patients with influenza virus infection: A retrospective analysis. **Heart Lung**. 49:105-109, 2020
244. Demetz E, Tymoszuk P, Hilbe R, Volani C, Haschka D, Heim C, Auer K, Lener D, Zeiger LB, Pfeifhofer-Obermair C, Boehm A, Obermair GJ, Ablinger C, Coassin S, Lamina C, Kager J, Petzer V, Asshoff M, Schroll A, Nairz M, Dichtl S, Seifert M, von Raffay L, Fischer C, Barros-Pinkelnig M, Brigo N, Valente de Souza L, Sopper S, Hirsch J, Graber M, Gollmann-Tepeköylü C, Holfeld J, Halper J, Macheiner S, Gostner J, Vogel GF, Pechlaner R, Moser P, Imboden M, Marques-Vidal P, Probst-Hensch NM, Meiselbach H, Strauch K, Peters A, Paulweber B, Willeit J, Kiechl S, Kronenberg F, Theurl I, Tancevski I, Weiss G. The haemochromatosis gene Hfe and Kupffer cells control LDL cholesterol homeostasis and impact on atherosclerosis development. **Eur Heart J**. 2020 41(40):3949-3959, 2020.
245. Siegers JY, Novakovic B, Hulme KD, Marshall R, Bloxham CJ, Thomas WG, Reichelt ME, Leijten L, van Run P, Knox K, Sokolowski KA, Tse BWC, Chew KY, Christ AN, Howe G, Bruxner TJC, Karolyi M, Pawelka E, Koch RM, Bellmann-Weiler R, Burkert F, Weiss G, Samanta RJ, Openshaw PJM, Bielefeldt-Ohmann H, van Riel D, Short KR. A high fat diet increases influenza A virus-associated cardiovascular damage. **J Infect Dis**. 222, 820-31. 2020.
246. Mayr L, Grabherr F, Schwärzler J, Reitmeier I, Sommer F, Gehmacher T, Niederreiter L, He GW, Ruder B, Kunz KTR, Tymoszuk P, Hilbe R, Haschka D, Feistritzer C, Gerner RR, Enrich B, Przysiecki N, Seifert M, Keller MA, Oberhuber G, Sprung S, Ran Q, Koch R, Effenberger M, Tancevski I, Zoller H, Moschen AR, Weiss G, Becker C, Rosenstiel P, Kaser A, Tilg H, Adolph TE. Dietary lipids fuel GPX4-restricted enteritis resembling Crohn's disease. **Nat Commun**. 11:1775, 2020
247. Effenberger M, Grabherr F, Mayr L, Schwaerzler J, Nairz M, Seifert M, Hilbe R, Seiwald S, Scholl-Buergi S, Fritsche G, Bellmann-Weiler R, Weiss G, Müller T, Adolph TE, Tilg H. Faecal calprotectin indicates intestinal inflammation in COVID-19. **Gut**. 69; 1543-45, 2020.
248. Haschka D, Tymoszuk P, Bsteh G, Petzer V, Berek K, Theurl I, Berger T, Weiss G. Expansion of Neutrophils and Classical and Nonclassical Monocytes as a Hallmark in Relapsing-Remitting Multiple Sclerosis. **Front Immunol**. 11:594, 2020
249. Riedelberger M, Penninger P, Tscherner M, Hadriga B, Brunnhofer C, Jenull S, Stoiber A, Bourgeois C, Petryshyn A, Glaser W, Limbeck A, Lynes MA, Schabbauer G, Weiss G, Kuchler K. Type I Interferons Ameliorate Zinc Intoxication of *Candida glabrata* by Macrophages and Promote Fungal Immune Evasion. **iScience**. 23:101121, 2020
250. Petzer V, Tymoszuk P, Asshoff M, Carvalho J, Papworth J, Deantonio C, Bayliss L, Wake MS, Seifert M, Brigo N, Valente de Souza L, Hilbe R, Grubwieser P,

- Demetz E, Dichtl S, Volani C, Berger S, Böhm F, Hoffmann A, Pfeifhofer-Obermair C, Sopfer S, Arndt S, Bosserhoff A, Kautz L, Perrier P, Nairz M, Wolf D, Weiss G, Germaschewski V, Theurl I. A fully human anti-BMP6 antibody reduces the need for erythropoietin in rodent models of the Anemia of Chronic Disease. **Blood**. 136:1080-1090, 2020
251. Viveiros A, Panzer M, Baumgartner N, Schaefer B, Finkenstedt A, Henninger B, Theurl I, Nachbaur K, Weiss G, Haubner R, Decristoforo C, Tilg H, Zoller H. Reduced Iron Export Associated with Hepcidin Resistance Can Explain the Iron Overload Spectrum in Ferroportin Disease. **Liver Int**. 40:1941-51, 2020
252. Kurz K, Lanser L, Seifert M, Kocher F, Pözl G, Weiss G. Anaemia, iron status, and gender predict the outcome in patients with chronic heart failure. **ESC Heart Fail**. 7:1880-1890, 2020
253. Bellmann-Weiler R, Burkert F, Schwaiger T, Schmidt S, Ludescher C, Oexle H, Wolf D, Weiss G. Janus-faced course of COVID-19 infection in patients with hematological malignancies. **Eur J Haematol**. 105, 502-504, 2020.
254. Dzien A, Dzien-Bischinger C, Lechleitner M, Winner H, Weiss G. Will the COVID-19 pandemic slow down in the Northern hemisphere by the onset of summer? An epidemiological hypothesis. **Infection**. 48:627-629, 2020
255. Effenberger M, Grander C, Fritsche G, Bellmann-Weiler R, Hartig F, Wildner S, Seiwald S, Adolph TE, Zoller H, Weiss G, Tilg H. Liver stiffness by transient elastography accompanies illness severity in COVID-19. **BMJ Open Gastroenterol**. 7:e000445, 2020
256. Bellmann-Weiler R, Lanser L, Barket R, Rangger L, Schapfl A, Schaber M, Fritsche G, Wöll E, Weiss G. Prevalence and Predictive Value of Anemia and Dysregulated Iron Homeostasis in Patients with COVID-19 Infection. **J Clin Med**. 9:2429, 2020
257. Effenberger M, Grander C, Grabherr F, Griesmacher A, Ploner T, Hartig F, Bellmann-Weiler R, Joannidis M, Zoller H, Weiss G, Adolph TE, Tilg H. Systemic inflammation as fuel for acute liver injury in COVID-19. **Dig Liver Dis**.;53:158-165, 2021
258. Pizzini A, Aichner M, Sonnweber T, Tancevski I, Weiss G, Löffler-Ragg J. The Significance of iron deficiency and anemia in a real-life COPD cohort. **Int J Med Sci**. 17:2232-2239, 2020
259. Pizzini A, Aichner M, Sahanic S, Böhm A, Egger A, Hoermann G, Kurz K, Widmann G, Bellmann-Weiler R, Weiss G, Tancevski I, Sonnweber T, Löffler-Ragg J. Impact of Vitamin D Deficiency on COVID-19-A Prospective Analysis from the CovILD Registry. **Nutrients**. 12:E2775, 2020

260. Sahanic S, Boehm A, Pizzini A, Sonnweber T, Aichner M, Weiss G, Loeffler-Ragg J, Tancevski I. Assessing self-medication for obstructive airway disease during COVID-19 using *Google Trends*. **Eur Respir J.** 56(5):2002851, 2020.
261. Nairz M, Metzendorf C, Vujic-Spasic M, Mitterstiller AM, Schroll A, Haschka D, Hoffmann A, Von Raffay L, Sparla R, Huck CW, Talasz H, Moser PL, Muckenthaler MU, Weiss G. Cell-specific expression of Hfe determines the outcome of *Salmonella entericaserovar Typhimurium* infection in mice. **Haematologica.** Dec 1;106(12):3149-3161, 2021
262. Kink P, Egger EM, Lanser L, Klaunzner M, Holzner B, Willenbacher W, Kasseroler MT, Fuchs D, Weiss G, Kurz K. Immune Activation and Anemia Are Associated with Decreased Quality of Life in Patients with Solid Tumors. **J Clin Med.** Oct 12;9(10):3248. 2020.
263. Brandtner A, Tymoszuk P, Nairz M, Lehner GF, Fritsche G, Vales A, Falkner A, Schennach H, Theurl I, Joannidis M, Weiss G, Pfeifhofer-Obermair C. Linkage of alterations in systemic iron homeostasis to patients' outcome in sepsis: a prospective study. **J Intensive Care.** Oct 1;8:76. 2020 doi: 10.1186/s40560-020-00495-8.
264. Popa A, Genger JW, Nicholson MD, Penz T, Schmid D, Aberle SW, Agerer B, Lercher A, Endler L, Colaço H, Smyth M, Schuster M, Grau ML, Martínez-Jiménez F, Pich O, Borena W, Pawelka E, Keszei Z, Senekowitsch M, Laine J, Aberle JH, Redlberger-Fritz M, Karolyi M, Zoufaly A, Maritschnik S, Borkovec M, Hufnagl P, Nairz M, Weiss G, Wolfinger MT, von Laer D, Superti-Furga G, Lopez-Bigas N, Puchhammer-Stöckl E, Allerberger F, Michor F, Bock C, Bergthaler A. Genomic epidemiology of superspreading events in Austria reveals mutational dynamics and transmission properties of SARS-CoV-2. **Sci Transl Med** Nov 23; 2020 eabe2555. doi: 10.1126/scitranslmed.abe2555
265. Beyer C, Pizzini A, Boehm A, Loeffler-Ragg J, Weiss G, Feuchtner G, Bauer A, Friedrich G, Plank F. Current symptom-based risk scores for stable coronary artery disease evaluation are not applicable in COPD patients. **ERJ Open Res.** Oct 19;6(4):00492; 2020.
266. Sonnweber T, Sahanic S, Pizzini A, Luger A, Schwabl C, Kurz K, Koppelstätter S, Haschka D, Petzer V, Sonnweber B, Boehm A, Aichner M, Lener D, Theurl M, Lorsbach-Köhler A, Tancevski A, Schapfl A, Schaber M, Hilbe R, Nairz M, Puchner B, Hüttenberger D, Tschurtschenthaler C, Aßhoff M, Peer A, Hartig F, Bellmann R, Joannidis M, Gollmann-Tepeköylü C, Holfeld J, Feuchtner G, Egger A, Hörmann G, Schroll A, Fritsche G, Wildner S, Bellmann-Weiler R, Kirchmair R, Helbok R, Prosch H, Rieder D, Trajanoski Z, Kronenberg F, Wöll E, Weiss G, Widmann G, Löffler-Ragg J, Tancevski I. Cardiopulmonary recovery after COVID-19 – an observational prospective multi-center trial. **Eur Respir J.** Apr 29;57(4):2003481, 2021.
267. Sonnweber T, Boehm A, Sahanic S, Pizzini A, Aichner M, Sonnweber B, Kurz K, Koppelstätter S, Haschka D, Petzer V, Hilbe R, Theurl M, Lehner D, Nairz

- M, Puchner B, Luger A, Schwabl C, Bellmann-Weiler R, Wöll E, Widmann G, Tancevski I, Judith-Löffler-Ragg, Weiss G. Persisting alterations of iron homeostasis in COVID-19 are associated with non-resolving lung pathologies and poor patients' performance: a prospective observational cohort study. **Respir Res.** 21(1):276, 2020
268. Tymoszuk P, Nairz M, Brigo N, Petzer V, Heeke S, Kircher B, Hermann-Kleiter N, Klepsch V, Theurl I, Weiss G, Pfeifhofer-Obermair C. Iron Supplementation Interferes With Immune Therapy of Murine Mammary Carcinoma by Inhibiting Anti-Tumor T Cell Function. **Front Oncol.** Dec 4;10:584477. doi: 10.3389/fonc.2020.584477m 2020.
269. Bellmann-Weiler R, Lanser L, Burkert F, Seiwald S, Fritsche G, Wildner S, Schroll A, Koppelstätter S, Kurz K, Griesmacher A, Weiss G. Neopterin Predicts Disease Severity in Hospitalized Patients With COVID-19. **Open Forum Infect Dis.** Nov 3;8(1):ofaa521. doi: 10.1093/ofid/ofaa521 2020. PMID: 33442554
270. Pizzini A, Bacher H, Aichner M, Franchi A, Watzinger K, Tancevski I, Sonnweber T, Mosheimer-Feistritz B, Duftner C, Zelger B, Pallua Jo, Sprung S, Weichhart T, Zelger B, Weiss G, Löffler-Ragg J. High expression of mTOR signaling in granulomatous lesions is not predictive for the clinical course of sarcoidosis **Respir Med.** 2021 Jan 5, 177:106294 doi: 10.106/j.rmed.2020.106294 Online ahead of print, PMD:33485108
271. Grabherr F, Effenberger M, Pedrini A, Mayr L, Schwärzler J, Reider S, Enrich B, Fritsche G, Wildner S, Bellmann-Weiler R, Weiss G, Scholl-Bürgi S, Müller T, Moschen A, Adolph TE, Tilg H. Increased Fecal Neopterin Parallels Gastrointestinal Symptoms in COVID-19. **Clin Transl Gastroenterol.** 2021 Jan 12;12(1):e00293. doi: 10.14309/ctg.0000000000000293.Clin Transl Gastroenterol. 2021. PMID: 33438988
272. Irsara C, Egger AE, Prokop W, Nairz M, Loacker L, Sahanic S, Pizzini A, Sonnweber T, Mayer W, Schennach H, Loeffler-Ragg J, Bellmann-Weiler R, Tancevski I, Weiss G, Anliker M, Griesmacher A, Hoermann G. Evaluation of four commercial, fully automated SARS-CoV-2 antibody tests suggests a revision of the Siemens SARS-CoV-2 IgG assay. **Clin Chem LaB Med.** 2021 Jan 14 doi: 10.1515/cclm-2020-1758. PMID: 33554557
273. Puchner B, Sahanic S, Kirchmair R, Pizzini A, Sonnweber B, Woell E, Muehlbacher A, Garimorth K, Dareb B, Ehling R, Wenter J, Schneider S, Brenneis C, Weiss G, Tancevski I, Sonnweber T, Loeffler-Ragg J. Beneficial effects of multi-disciplinary rehabilitation in post-acute COVID-19 - an observational cohort study. **Eur J Phys Rehabil Med.** 2021 Jan 15. doi: 10.23736/S1973-9087.21.06549-7. Online ahead of print.Eur J Phys Rehabil Med. 2021. PMID: 33448756
274. Sonnweber T, Schneider EM, Nairz M, Theurl I, Weiss G, Tymoszuk P, Loeffler-Ragg J. Risk assessment in precapillary pulmonary hypertension: a

comparative analysis. **Respir Res.** 2021 Jan 21;22 (1); 28.doi: 10.1186/s12931-021-01624-z PMID:33478493

275. Nairz M, Bellmann-Weiler R, Ladstätter M, Schüllner F, Zimmermann M, Koller AM, Blunder S, Naschberger H, Klotz W, Herold M, Kerndler S, Jeske M, Haschka D, Petzer V, Schroll A, Sonnweber T, Tancevski I, Fritsche G, de Araujo MEG, Stasyk T, Huber LA, Griesmacher A, Theurl I, Weiss G. Overcoming limitations in the availability of swabs systems used for SARS-CoV-2 laboratory diagnostics. **Sci Rep.** 2021 Jan 26;11(1); 2261 doi:10.1038/s41598-021-81782-8. PMID: 33500503
276. Thommes L, Burker FR, Öttl KW, Goldin D, Loacker L, Lanser L, Griesmacher A, Theurl I, Weiss G, Bellmann-Weiler R, Comparative evaluation of four SARS-CoV-2 antigen test in hospitalized patients **Inf J Infect Dis.** 2021 Feb 17;105:144-136 doi: 10.1016/j.ijid.2021.02.052 PMID 33609774
277. Rass V, Beer R, Josef Schiefecker A, Kofler M, Lindner A, Mahlknecht P, Heim B, Limmert V, Shanic S, Pizzini A, Sonnweber T, Tancevski I, Loeffler-Ragg J, Scherfler C, Zamarian L, Bellmann-Weiler R, Weiss G, Djamshidian A, Kiechl S, Seppi K, Pfausler B, Helbok R. Neurological outcome and quality of life three months after COVID-19: a prospective observational cohort study. **Eur J Neurol.** 2021 Mar 7, doi: 10.1111/ene.14803. PMID: 33682276
278. Boehm A, Aichner M, Sonnweber T, Tancevski I, Fischer T, Sahanic S, Joannidis M, Weiss G, Pizzini A, Loeffler-Ragg J. COPD exacerbations are related to poor air quality in Innsbruck: A retrospective pilot study. **Heart Lung.** 2021 April 6;50(4):499-503 doi 10.515/cclm-2021-0214. PMID: 33836440
279. Irsara C, Egger AE, Prokop W, Nairz M, Loacker L, Sahanic S, Pizzini A, Sonnweber T, Holzer B, Mayer W, Schennach H, Loeffler-Ragg J, Bellmann-Weiler R, Hartmann B, Tancevski I, Weiss G, Binder CJ, Anliker M, Griesmacher A, Hoermann G. Clinical validation of the Siemens quantitative SARS-Cov-2 spike IgG assay (sCOVG) reveals improved sensitivity and a good correlation with virus neutralization titers. **Clin Chem Lab Med.** 2021 Apr 9. doi:10.515/cclm-2021-0214. PMID: 33837679
280. Klausberger M, Duerkop M, Haslacher H, Wozniak-Knopp G, Cserjan-Puschmann M, Perkmann T, Lingg N, Aguilar PP, Laurent E, De Vos J, Hofner M, Holzer B, Stadler M, Manhart G, Vierlinger K, Egger M, Milchram L, Gludovacz E, Marx N, Köppl C, Tauer C, Beck J, Maresch D, Grünwald-Gruber C, Strobl F, Satzer P, Stadlmayr G, Vavra U, Huber J, Wahrmann M, Eskandary F, Breyer MK, Sieghart D, Quehenberger P, Leitner G, Strassl R, Egger AE, Irsara C, Griesmacher A, Hoermann G, Weiss G, Bellmann-Weiler R, Loeffler-Ragg J, Borth N, Strasser R, Jungbauer A, Hahn R, Mairhofer J, Hartmann B, Binder NB, Striedner G, Mach L, Weinhäusel A, Dieplinger B, Grebien F, Gerner W, Binder CJ, Grabherr R. A comprehensive antigen production and characterisation study for easy-to-implement, specific and quantitative SARS-

CoV-2 serotests. **EBioMedicine**. 2021 May;67:103348.  
doi:10.1016/j.ebiom.2021.103348. Epub 2021 Apr 25.PMID: 33906067

281. Jahn B, Sroczynski G, Bicher M, Rippinger C, Mühlberger N, Santamaria J, Urach C, Schomaker M, Stojkov I, Schmid D, Weiss G, Wiedermann U, Redlberger-Fritz M, Druml C, Kretzschmar M, Paulke-Korinek M, Ostermann H, Czasch C, Endel G, Bock W, Popper N, Siebert U. Targeted COVID-19 Vaccination (TAV-COVID) Considering Limited Vaccination Capacities-An Agent-Based Modeling Evaluation. **Vaccines (Basel)**. 2021 Apr 27;9(5):434. doi: 10.3390/vaccines9050434.PMID: 33925650
282. Dunnwald, T, Morawetz, D, Faulhaber, M, Gatterer, H, Birklbauer, C, Koller, A, Weiss, G, and Schobersberger, W. Supplemental O2 During Recovery Does Not Improve Repeated Maximal Concentric-Eccentric Strength-Endurance Performance in Hypoxia. **J Strength Cond Res**. 2021 Apr 27. doi: 10.1519/JSC.0000000000004045. Online ahead of print.PMID: 33927110
283. Petzer V, Schwendinger S, Haschka D, Vogl V, Tymoszyk P, Burkert F, Sahanic S, Sonnweber T, Bellmann-Weiler R, Loeffler-Ragg J, Tancevski I, Zschocke J, Weiss G, Wolf D, Jukic E. Clonal hematopoiesis in patients with Covid-19 is stable and not linked to an aggravated clinical course. **Am J Hematol**. 2021 May 24;10.1002/ajh.26251. doi: 10.1002/ajh.26251. Online ahead of print.PMID: 34028864
284. Pfeifhofer-Obermair C, Tymoszyk P, Nairz M, Schroll A, Klais G, Demetz E, Engl S, Brigo N, Weiss G. Regulation of Th1 T Cell Differentiation by Iron via Upregulation of T Cell Immunoglobulin and Mucin Containing Protein-3(TIM-3) **Front Immunol**. 2021 May 24;12:637809. doi: 10.3389/fimmu.2021.637809. eCollection 2021.PMID: 34108960
285. Bauer A, Schreinlechner M, Sappeler N, Dolejsi T, Tilg H, Aulner BA, Weiss G, Bellmann-Weiler R, Adolf C, Wolf D, Pirklbauer M, Graziadei I, Gänzer H, von Bary C, May AE, Wöll E, von Scheidt W, Rassaf T, Duerschmied D, Brenner C, Käbb S, Metzler B, Joannidis M, Kain HU, Kaiser N, Schwinger R, Witzensbichler B, Alber H, Straube F, Hartmann N, Achenbach S, von Bergwelt-Baildon M, von Stülpnagel L, Schoenherr S, Forer L, Embacher-Aichhorn S, Mansmann U, Rizas KD, Massberg S; ACEI-COVID investigators. Discontinuation versus continuation of renin-angiotensin-system inhibitors in COVID-19 (ACEI-COVID): a prospective, parallel group, randomised, controlled, open-label trial. **Lancet Respir Med**. 2021 Jun 11:S2213-2600(21)00214-9. doi: 10.1016/S2213-2600(21)00214-9. Online ahead of print.PMID: 34126053
286. Lanser L, Burkert FR, Thommes L, Egger A, Hoermann G, Kaser S, Pinggera GM, Anliker M, Griesmacher A, Weiss G, Bellmann-Weiler R Testosterone Deficiency Is a Risk Factor for Severe COVID-19 **Front Endocrinol (Lausanne)**. 2021 Jun 18;12:694083. doi: 10.3389/fendo.2021.694083. eCollection 2021.PMID: 34226825

287. Haschka D, Tymoszuk P, Petzer V, Hilbe R, Heeke S, Dichtl S, Skvortsov S, Demetz E, Berger S, Seifert M, Mitterstiller AM, Moser P, Bumann D, Nairz M, Theurl I, Weiss G. Ferritin H deficiency deteriorate cellular ion handling and worsens *Salmonella typhimurium* infection by triggering hyperinflammation. **JCI Insight**. 2021 Jul 8;6(13):141760. doi:10.1172/jci.insight.141760.PMID: 34236052
288. Brigo N, Pfeifhofer-Obermair C, Tymoszuk P, Demetz E, Engl S, Barros-Pinkelning M, Dichtl S, Fischer C, Valente De Souza L, Petzer V, von Raffay L, Hilbe R, Berger S, Seifert M, Schleicher U, Bogdan C, Weiss G. Cytokine-Mediated Regulation of ARG1 in Macrophages and Its Impact on the Control of *Salmonella enterica* Serovar Typhimurium Infection **Cells**. 2021 Jul 19;10(7):1823. doi: 10.3390/cells10071823.PMID: 34359992
289. Sahanic S, Löffler-Ragg J, Tymoszuk P, Hilbe R, Demetz E, Masanetz RK, Theurl M, Holfeld J, Gollmann-Tepeköylü C, Tzankov A, Weiss G, Giera M, Tancevski I. The Role of Innate Immunity and Bioactive Lipid Mediators in COVID-19 and Influenza. **Front Physiol**. 2021 Jul 22;12:688946. doi: 10.3389/fphys.2021.688946. eCollection 2021.PMID: 34366882
290. Hoffmann A, de Souza LV, Seifert M, von Raffay L, Haschka D, Grubwieser P, Grander M, Mitterstiller AM, Nairz M, Poli M, Weiss G. Pharmacological Targeting of BMP6-SMAD Mediated Hepcidin Expression Does Not Improve the Outcome of Systemic Infections With Intra-Or Extracellular Gram-Negative Bacteria in Mice **Front Cell Infect Microbiol**. 2021 Jul 23;11:705087. doi: 10.3389/fcimb.2021.705087. eCollection 2021.PMID: 34368018
291. Lanser L, Fuchs D, Scharnagl H, Grammer T, Kleber ME, März W, Weiss G, Kurz K. Anemia of Chronic Disease in Patients with Cardiovascular Disease **Front Cardiovasc Med**. 2021 Aug 2;8:666638.doi:10.3389/fcvm.2021.666638. eCollection 2021.PMID: 34458328
292. Boehm A, Luger AK, Schmitz K, Cima K, Patscheider DH, Augustin F, Jakob LM, Obermayer A, Weiss G, Stoiber W, Widmann G, Loeffler-Ragg J. A spark of hope: histopathological and functional recovery after critical COVID-19 **Infection**. 2022 doi: 10.1007/s15010-021-01678-7. PMID: 34435313
293. Hoffmann A, Haschka D, Valente de Souza L, Tymoszuk P, Seifert M, von Raffay L, Hilbe R, Petzer V, Moser PL, Nairz M, Weiss G. Baseline iron status and presence of anaemia determine the course of systemic *Salmonella* infection following oral iron supplementation in mice. **EBioMedicine**. 2021 Sep; 71:103568. doi: 10.1016/j.ebiom.2021.103568. **Epub 2021 Sep 3** PMID: 34488018
294. Drakesmith H, Pasricha SR, Cabantchik I, Hershko C, Weiss G, Girelli D, Stoffel N, Muckenthaler MU, Nemeth E, Camaschella C, Klenerman P, Zimmermann MB. Vaccine efficacy and iron deficiency: an intertwined pair? **Lancet Haematol**. 2021 Sep;8(9):e666-e669. doi: 10.1016/S2352-3026(21)00201-5.PMID: 34450104

295. Lanser L, Burkert FR, Bellmann-Weiler R, Schroll A, Wildner S, Fritsche G, Weiss G. Dynamics in Anemia Development and Dysregulation of Iron Homeostasis in Hospitalized Patients with COVID-19. **Metabolites**. 2021, Sep, 25;11(10) :653. doi: 10.3390/metabo11100653.PMID: 34677368
296. Haschka D, Grander M, Eibensteiner J, Dichtl S, Koppelstätter S, Weiss G. Nifedipine Potentiates Susceptibility of Salmonella Typhimurium to Different Classes of Antibiotics. **Antibiotics (Basel)**. 2021 Oct 1;10(10):1200. doi: 10.3390/antibiotics10101200. PMID: 34680781
297. Pereyra D, Heber S, Schrottmaier WC, Santol J, Pirabe A, Schmuckenschlager A, Kammerer K, Ammon D, Sorz T, Fritsch F, Hayden H, Pawelka E, Krüger P, Rumpf B, Traugott MT, Glaser P, Firbas C, Schörgenhofer C, Seitz T, Karolyi M, Pabinger I, Brostjan C, Starlinger P, Weiss G, Bellmann-Weiler R, Salzer HJF, Jilma B, Zoufaly A, Assinger A. Low molecular weight heparin use in COVID-19 is associated with curtailed viral persistence-a retrospective multicenter observational study. **Cardiovasc Res**. 2021 Oct 5:cvab308. doi: 10.1093/cvr/cvab308. PMID: 34609480
298. Pattaro C, Barbieri G, Foco L, Weichenberger CX, Biasiotto R, De Grandi A, Fuchsberger C, Egger C, Amon VSC, Hicks AA, Mian M, Mahlknecht A, Lombardo S, Meier H, Weiss H, Rainer R, DeJaco C, Weiss G, Lavezzo E, Crisanti A, Pizzato M, Domingues FS, Mascialzoni D, Gögele M, Melotti R, Pramstaller PP. Prospective epidemiological, molecular, and genetic characterization of a novel coronavirus disease in the Val Venosta/Vinschgau: the CHRIS COVID-19 study protocol **Pathog Glob Health**. 2021 Oct 12:1-9. doi:10.1080/20477724. 2021.1978225..PMID: 34637685
299. Fischer C, Volani C, Komlódi T, Seifert M, Demetz E, Valente de Souza L, Auer K, Petzer V, von Raffay L, Moser P, Gnaiger E, Weiss G. Dietary Iron Overload and Hfe-/- Related Hemochromatosis Alter Hepatic Mitochondrial Function. **Antioxidants (Basel)**. 2021 Nov 16;10(11):1818. doi:10.3390/antiox10111818. PMID: 34829689
300. Sahanic S, Tymoszuk P, Ausserhofer D, Rass V, Pizzini A, Nordmeyer G, Hüfner K, Kurz K, Weber PM, Sonnweber T, Boehm A, Aichner M, Cima K, Boeckle B, Holzner B, Rumpold G, Puelacher C, Kiechl S, Huber A, Wiedermann CJ, Sperner-Unterweger B, Tancevski I, Bellmann-Weiler R, Bachler H, Piccoliori G, Helbok R, Weiss G\*, Loeffler-Ragg J\*. Phenotyping of acute and persistent COVID-19 features in the outpatient setting: exploratory analysis of an international cross-sectional online survey. **Clin Infect Dis**. 2021 Nov 26: ciab 978. doi:10.1093/cid/ciab978. PMID: 34849652 \* corresp. authors
301. Feuchtner GM, Plank F, Beyer C, Schwabl C, Held J, Bellmann-Weiler R, Weiss G, Gruber J, Widmann G, Klauser AS. Monosodium Urate Crystal Deposition in Coronary Artery Plaque by 128-Slice Dual-Energy Computed Tomography: An Ex Vivo Phantom and In Vivo Study. **J Comput Assist Tomogr**. 2021 Nov-Dec 01;45(6):856-862. doi: 10.1097/RCT.0000000000001222.PMID: 34469909



302. Heber S, Pereyra D, Schrottmaier WC, Kammerer K, Santol J, Rumpf B, Pawelka E, Hanna M, Scholz A, Liu M, Hell A, Heiplik K, Lickefett B, Havervall S, Traugott MT, Neuböck MJ, Schörgenhofer C, Seitz T, Firbas C, Karolyi M, Weiss G, Jilma B, Thålin C, Bellmann-Weiler R, Salzer HJF, Szepannek G, Fischer MJM, Zoufaly A, Gleiss A, Assinger A. A Model Predicting Mortality of Hospitalized Covid-19 Patients Four Days After Admission: Development, Internal and Temporal-External Validation. **Front Cell Infect Microbiol.** 2022 Jan 24;11:795026. doi:10.3389/fcimb.2021.795026. eCollection 2021. PMID: 35141170
303. Reincke SM, Yuan M, Kornau HC, Corman VM, van Hoof S, Sánchez-Sendin E, Ramberger M, Yu W, Hua Y, Tien H, Schmidt ML, Schwarz T, Jeworowski LM, Brandl SE, Rasmussen HF, Homeyer MA, Stöffler L, Barner M, Kunkel D, Huo S, Horler J, von Wardenburg N, Kroidl I, Eser TM, Wieser A, Geldmacher C, Hoelscher M, Gänzer H, Weiss G, Schmitz D, Drosten C, Prüss H, Wilson IA, Kreye J. SARS-CoV-2 Beta variant infection elicits potent lineage-specific and cross-reactive antibodies. **Science** 2022 Jan 25;eabm5835. doi: 10.1126/science.abm5835
304. Egger AE, Irsara C, Holzer B, Winkler C, Bellmann-Weiler R, Weiss G, Hartmann B, Prokop W, Hoermann G, Griesmacher A, Anliker M. Borderline and weakly positive antibody levels against the S-protein of SARS-CoV-2 exhibit limited agreement with virus neutralization titres. **J Clin Virol Plus.** 2022 Feb;2(1):100058. doi: 10.1016/j.jcvp.2021.100058. **Epub** 2021 Dec 8. PMID: 3526203
305. Sonnweber T, Tymoszuk P, Sahanic S, Boehm A, Pizzini A, Luger A, Schwabl C, Nairz M, Grubwieser P, Kurz K, Koppelstätter S, Aichner M, Puchner B, Egger A, Hoermann G, Wöll E, Weiss G, Widmann G, Tancevski I, Löffler-Ragg J. Investigating phenotypes of pulmonary COVID-19 recovery: A longitudinal observational prospective multicenter trial. **Elife.** 2022 Feb 8;11:e72500. doi: 10.7554/eLife.72500. PMID: 35131031
306. Anliker M, Drees D, Loacker L, Hafner S, Griesmacher A, Hoermann G, Fux V, Schennach H, Hörtnagl P, Dopler A, Schmidt S, Bellmann-Weiler R, Weiss G, Marx-Hofmann A, Körper S, Höchsmann B, Schrezenmeier H, Schmidt CQ. Upregulation of Checkpoint Ligand Programmed Death-Ligand 1 in Patients with Paroxysmal Nocturnal Hemoglobinuria Explained by Proximal Complement Activation. **J Immunol.** 2022 Mar 1;208(5):1248-1258. doi: 10.4049/jimmunol.2100031. **Epub** 2022 Feb 16. PMID: 35173033
307. Nairz M, Sahanic S, Pizzini A, Böhm A, Tymoszuk P, Mitterstiller AM, von Raffay L, Grubwieser P, Bellmann-Weiler R, Koppelstätter S, Schroll A, Haschka D, Zimmermann M, Blunder S, Trattinig K, Naschberger H, Klotz W, Theurl I, Petzer V, Gehrer C, Mindur JE, Luger A, Schwabl C, Widmann G, Weiss G, Löffler-Ragg J, Tancevski I, Sonnweber T. Quantity of IgG response to SARS-CoV-2 spike glycoprotein predicts pulmonary recovery from COVID-19. **Sci Rep.** 2022 Mar 7;12(1):3677. doi: 10.1038/s41598-022-07489-6.

PMID: 35256646

308. Hüfner K, Tymoszuk P, Ausserhofer D, Sahanic S, Pizzini A, Rass V, Galffy M, Böhm A, Kurz K, Sonnweber T, Tancevski I, Kiechl S, Huber A, Plagg B, Wiedermann CJ, Bellmann-Weiler R, Bachler H, Weiss G, Piccoliori G, Helbok R, Loeffler-Ragg J, Sperner-Unterweger B. Who Is at Risk of Poor Mental Health Following Coronavirus Disease-19 Outpatient Management? **Front Med** (Lausanne). 2022 Mar 14;9:792881. doi:10.3389/fmed.2022.792881. eCollection 2022. PMID: 35360744
309. Fischer C, Valente de Souza L, Komlódi T, Garcia-Souza LF, Volani C, Tymoszuk P, Demetz E, Seifert M, Auer K, Hilbe R, Brigo N, Petzer V, Asshoff M, Gnaiger E, Weiss G. Mitochondrial Respiration in Response to Iron Deficiency Anemia: Comparison of Peripheral Blood Mononuclear Cells and Liver. **Metabolites**. 2022 Mar 21;12(3):270. doi: 10.3390/metabo12030270. PMID: 35323713
310. Rass V, Beer R, Schiefecker AJ, Lindner A, Kofler M, Ianosi BA, Mahlknecht P, Heim B, Peball M, Carbone F, Limmert V, Kindl P, Putnina L, Fava E, Sahanic S, Sonnweber T, Löscher WN, Wanschitz JV, Zamarian L, Djamshidian A, Tancevski I, Weiss G, Bellmann-Weiler R, Kiechl S, Seppi K, Loeffler-Ragg J, Pfausler B, Helbok R. Neurological outcomes 1 year after COVID-19 diagnosis: A prospective longitudinal cohort study. **Eur J Neurol**. 2022 Jun;29(6):1685-1696. doi: 10.1111/ene.15307. **Epub** 2022 Mar 23. PMID: 35239247
311. Luger AK, Sonnweber T, Gruber L, Schwabl C, Cima K, Tymoszuk P, Gerstner AK, Pizzini A, Sahanic S, Boehm A, Coen M, Strolz CJ, Wöll E, Weiss G, Kirchmair R, Feuchtner GM, Prosch H, Tancevski I, Löffler-Ragg J, Widmann G. Chest CT of Lung Injury 1 Year after COVID-19 Pneumonia: The CovILD Study. **Radiology**. 2022 Mar 29:211670. doi: 10.1148/radiol.211670. Online ahead of print. PMID: 35348379
312. Braun AS, Feil K, Reiser E, Weiss G, von Steuben T, Pinggera GM, Köhn FM, Toth B. Corona and Reproduction, or Why the Corona Vaccination Does Not Result in Infertility. **Geburtshilfe Frauenheilkd**. 2022 May 6;82(5):490-500. doi: 10.1055/a-1750-9284. eCollection 2022 May. PMID: 35528190
313. Haschka D, Petzer V, Burkert FR, Fritsche G, Wildner S, Bellmann-Weiler R, Tymoszuk P, Weiss G. Alterations of blood monocyte subset distribution and surface phenotype are linked to infection severity in COVID-19 inpatients. **Eur J Immunol**. 2022 May 2. doi: 10.1002/eji.202149680. Online ahead of print. PMID: 35491910
314. Grubwieser P, Hoffmann A, Hilbe R, Seifert M, Sonnweber T, Böck N, Theurl I, Weiss G, Nairz M. Airway Epithelial Cells Differentially Adapt Their Iron Metabolism to Infection With *Klebsiella pneumoniae* and *Escherichia coli* In Vitro. **Front Cell Infect Microbiol**. 2022 May 18;12:875543. doi: 10.3389/fcimb.2022.875543.

315. Sonnweber T, Grubwieser P, Sahanic S, Böhm AK, Pizzini A, Luger A, Schwabl C, Koppelstätter S, Kurz K, Puchner B, Sperner-Unterweger B, Hüfner K, Wöll E, Nairz M, Widmann G, Tancevski I, Löffler-Ragg J, Weiss G. The Impact of Iron Dyshomeostasis and Anaemia on Long-Term Pulmonary Recovery and Persisting Symptom Burden after COVID-19: A Prospective Observational Cohort Study. **Metabolites**. 2022 Jun 14;12(6):546. doi: 10.3390/metabo12060546.PMID: 35736479
316. Brigo N, Pfeifhofer-Obermair C, Demetz E, Tymoszuk P, Weiss G. Flow Cytometric Characterization of Macrophages Infected in vitro with Salmonella enterica Serovar Typhimurium Expressing Red Fluorescent Protein. **Bio Protoc**. 2022 Jun 5;12(11):e4440. doi: 10.21769/BioProtoc.4440. eCollection 2022 Jun 5. PMID: 35799903
317. Bastard P, Vazquez S, Liu J, Laurie MT, Wang CY, Gervais A, Le Voyer T, Bizien L, Zamecnik C, Philippot Q, Rosain J, Catherinot E, Willmore A, Mitchell AM, Bair R, Garçon P, Kenney H, Fekkar A, Salagianni M, Poulakou G, Siouti E, Sahanic S, Tancevski I, Weiss G, Nagl L, Manry J, Duvlis S, Arroyo-Sánchez D, Paz Artal E, Rubio L, Perani C, Bezzi M, Sottini A, Quaresima V, Roussel L, Vinh DC, Reyes LF, Garzaro M, Hatipoglu N, Boutboul D, Tandjaoui-Lambiotte Y, Borghesi A, Aliberti A, Cassaniti I, Venet F, Monneret G, Halwani R, Sharif-Askari NS, Danielson J, Burrel S, Morbieu C, Stepanovskyy Y, Bondarenko A, Volokha A, Boyarchuk O, Gagro A, Neuville M, Neven B, Keles S, Hernu R, Bal A, Novelli A, Novelli G, Saker K, Ailioaie O, Antolí A, Jeziorski E, Rocamora-Blanch G, Teixeira C, Delaunay C, Lhuillier M, Le Turnier P, Zhang Y, Mahevas M, Pan-Hammarström Q, Abolhassani H, Bompoil T, Dorgham K; COVID HGE consortium †; French COVID study group †; COMET consortium †; Gorochov G, Laouenan C, Rodríguez-Gallego C, Ng LFP, Renia L, Pujol A, Belot A, Raffi F, Allende LM, Martínez-Picado J, Ozcelik T, Keles S, Imberti L, Notarangelo LD, Troya J, Solanich X, Zhang SY, Puel A, Wilson MR, Trouillet-Assant S, Abel L, Jouanguy E, Ye CJ, Cobat A, Thompson LM, Andreakos E, Zhang Q, Anderson MS, Casanova JL, DeRisi JL. Vaccine breakthrough hypoxemic COVID-19 pneumonia in patients with auto-Abs neutralizing type I IFNs. **Sci Immunol**. 2022 Jun 14:eabp8966. doi: 10.1126/sciimmunol.abp8966. Online ahead of print. PMID: 35857576
318. Grander M, Hoffmann A, Seifert M, Demetz E, Grubwieser P, Pfeifhofer-Obermair C, Haschka D, Weiss G. DMT1 Protects Macrophages from Salmonella Infection by Controlling Cellular Iron Turnover and Lipocalin 2 Expression. **Int J Mol Sci**. 2022 Jun 17;23(12):6789. doi: 10.3390/ijms23126789.PMID: 35743233
319. Dünwald T, Paglia G, Weiss G, Denti V, Faulhaber M, Schobersberger W, Wackerhage H. High Intensity Concentric-Eccentric Exercise Under Hypoxia Changes the Blood Metabolome of Trained Athletes. **Front Physiol**. 2022 Jun 23;13:904618. doi: 10.3389/fphys.2022.904618. eCollection 2022. PMID: 35812339

320. Bath M, Viveiros A, Schaefer B, Klein S, Pammer LM, Wagner S, Lorenz A, Rugg C, Gasser E, Ninkovic M, Panzer M, Pertler E, Fries D, Tilg H, Weiss G, Petzer V, Öfner-Velano D, Zoller H. Impact of preoperative anemia, iron-deficiency and inflammation on survival after colorectal surgery-A retrospective cohort study. **PLoS One**. 2022 Jul 27;17(7):e0269309. doi: 10.1371/journal.pone.0269309. eCollection 2022.PMID: 35895618
321. Staessen JA, R Wendt, Yu-Ling Yu, S Kalbitz, L Thijs 4, J Siwy, J Raad, J Metzger, B Neuhaus, A Papkalla, H von der Leyen, A Mebazaa, E Dudoignon, G Spasovski, M Milenkova, A Canevska-Taneska, M Salgueira Lazo, M Psychogiou, M W Rajzer, Ł Fuławka, M Dzitkowska-Zabielska, **Weiss G**, T Feldt, M Stegemann, J Normark, A Zoufaly, S Schmiedel, M Seilmaier, B Rumpf, M Banasik, M Krajewska, L Catanese, H D Rupprecht, B Czerwieńska, B Peters, Å Nilsson, K Rothfuss, C Lübbert, H Mischak, J Beige; CRIT-CoV-U investigators Predictive performance and clinical application of COV50, a urinary proteomic biomarker in early COVID-19 infection: a prospective multicentre cohort study **Lancet Digit Health** 2022 Oct;4(10):e727-e737.doi: 10.1016/S2589-7500(22)00150-9. Epub 2022 Aug 31.
322. Burkert FR, Lanser L, Pizzini A, Bellmann-Weiler R, Weiss G. Markers of Infection-Mediated Cardiac Damage in Influenza and COVID-19. **Pathogens**. 2022 Oct 16;11(10):1191 doi:10.3390/pathogens11101191.PMID: 36297248
323. Gehrler CM, Hoffmann A, Hilbe R, Grubwieser P, Mitterstiller AM, Talasz H, Fang FC, Meyron-Holtz EG, Atkinson SH, Weiss G, Nairz M. Availability of Ferritin-Bound Iron to Enterobacteriaceae. **Int J Mol Sci**. 2022 Oct 28;23(21):13087. doi: 10.3390/ijms232113087
324. Tschiderer L, Seekircher L, Richter L, von Laer D, Lass-Flörl C, Forer L, Schönherr S, Krammer F, Embacher-Aichhorn S, Tilg H, Weiss G, Allerberger F, Willeit P. Ultra-rapid rollout vaccination with BNT162b2 to reduce SARS-CoV-2 infections in the general population. **iScience**. 2022 Nov 18;25(11):105380. doi: 10.1016/j.isci.2022.105380. Epub 2022 Nov 7.PMID: 36373097
325. Egger AE, Sahanic S, Gleiss A, F Ratzinger B Holzer , C Irsara, N Binder, C Winkler, C J Binder, W Posch, L Loacker, B Hartmann, M Anliker, Weiss G, T Sonnweber, I Tancevski, A Griesmacher, J Löffler-Ragg, G Hoermann One-Year Follow-Up of COVID-19 Patients Indicates Substantial Assay-Dependent Differences in the Kinetics of SARS-CoV-2 Antibodies **Microbiol Spectr** 2022 Dec 21;10(6):e0059722. doi: 10.1128/spectrum.00597-22. Epub 2022 Oct 12
326. Demichev V, Tober-Lau P, Nazarenko T, Lemke O, Kaur Aulakh S, Whitwell HJ, Röhl A, Freiwald A, Mittermaier M, Szyrwiel L, Ludwig D, Correia-Melo C, Lippert LJ, Helbig ET, Stubbemann P, Olk N, Thibeault C, Grüning NM, Blyuss O, Vernardis S, White M, Messner CB, Joannidis M, Sonnweber T, Klein SJ, Pizzini A, Wohlfarter Y, Sahanic S, Hilbe R, Schaefer B, Wagner S, Machleidt F, Garcia C, Ruwwe-Glösenkamp C, Lingscheid T, Bosquillon de

Jarcy L, Stegemann MS, Pfeiffer M, Jürgens L, Denker S, Zickler D, Spies C, Edel A, Müller NB, Enghard P, Zelezniak A, Bellmann-Weiler R, Weiss G, Campbell A, Hayward C, Porteous DJ, Marioni RE, Uhrig A, Zoller H, Löffler-Ragg J, Keller MA, Tancevski I, Timms JF, Zaikin A, Hippenstiel S, Ramharter M, Müller-Redetzky H, Witzenrath M, Suttorp N, Lilley K, Mülleder M, Sander LE; A proteomic survival predictor for COVID-19 patients in intensive care. PA-COVID-19 Study group; Kurth F, Ralser M. **PLOS Digit Health**. 2022 Jan 18;1(1):e0000007. doi: 10.1371/journal.pdig.0000007. eCollection 2022 Jan. PMID: 36812516 Free PMC article.

327. Weiss G. Who should receive oral antiviral therapy for severe acute respiratory syndrome coronavirus 2 infection in the omicron era? Choose wisely. **Clin Microbiol Infect**. 2022 Dec 7:S1198-743X(22)00601-2. doi: 10.1016/j.cmi.2022.11.028. Online ahead of print. PMID: 36496153
328. Valente De Souza L, Hoffmann A, Fischer C, Petzer V, Asshoff M, Theurl I, Tymoszuk P, Seifert M, Brigo N, Hilbe R, Demetz E, Von Raffay L, Berger S, Barros-Pinkelning M, Weiss G. Comparative analysis of oral and intravenous iron therapy in rat models of inflammatory anemia and iron deficiency. **Haematologica**. 2023 Jan 1;108(1):135-149. doi:10.3324/haematol.2022.281149. PMID: 35796011
329. Dichtl S, Zaderer V, Kozubowski V, Abd El Halim H, Lafon E, Lanser L, Weiss G, Lass-Flörl C, Wilflingseder D, Posch W. Tixagevimab + cilgavimab against SARS-CoV-2: the preclinical and clinical development and real-world evidence. **Expert Opin Drug Discov**. 2023 Jan 24:1-15. doi:0.1080/17460441.2023.2170348. Online ahead of print. PMID: 36649625
330. Weiss G. Macrophage vesicles starve bacteria of iron. **Nat Metab**. 2023 Jan;5(1):10-12. doi: 10.1038/s42255-022-00719-1. PMID: 36658401
331. Krendl FJ, Oberhuber R, Breitkopf R, Weiss G, Schneeberger S. Normothermic liver machine perfusion as a dynamic platform for assessment and treatment of organs from septic donors. **J Hepatol**. 2023 Feb;78(2): e56-e57. doi: 10.1016/j.jhep.2022.10.033. Epub 2022 Nov 10. PMID: 36372119
332. Wu Q, Sacomboio E, Valente de Souza L, Martins R, Kitoko J, Cardoso S, Ademolue TW, Paixão T, Lehtimäki J, Figueiredo A, Norden C, Tharaux PL, Weiss G, Wang F, Ramos S, Soares MP. Renal control of life-threatening malarial anemia. **Cell Rep**. 2023 Feb;42(2):112057. doi: 10.1016/j.celrep.2023.112057. PMID: 36735532
333. Brigo N, Grubwieser P, Theurl I, Nairz M, Weiss G, Pfeifhofer-Obermair C. Continuous Measurement of Reactive Oxygen Species Formation in Bacteria-infected Bone Marrow-derived Macrophages Using a Fluorescence Plate Reader. **Bio Protoc**. 2023 Feb 5;13(3):e4604. doi: 10.21769/BioProtoc.4604. eCollection 2023 Feb 5. PMID: 36816989

334. Nairz M, Todorovic T, Gehrler CM, Grubwieser P, Burkert F, Zimmermann M, Trattnig K, Klotz W, Theurl I, Bellmann-Weiler R, Weiss G. Single-Center Experience in Detecting Influenza Virus, RSV and SARS-CoV-2 at the Emergency Department. **Viruses**. 2023 Feb 8;15(2):470. doi: 10.3390/v15020470. PMID: 36851685
335. Gietl M, Burkert F, Seiwald S, Böhm A, Hofer S, Gostner JM, Piater T, Geisler S, Weiss G, Loeffler-Ragg J, Sonnweber T, Tancevski I, Pizzini A, Sahanic S, Fuchs D, Bellmann-Weiler R, Kurz K Interferon-gamma Mediated Metabolic Pathways in Hospitalized Patients During Acute and Convalescent COVID-19. **Int J Tryptophan Res**. 2023 Feb 13;16:11786469231154244. doi: 10.1177/11786469231154244. eCollection 2023. PMID: 37038445
336. Plaikner M, Lanser L, Kremser C, Weiss G, Henninger B. 1.5-T MR relaxometry in quantifying splenic and pancreatic iron: retrospective comparison of a commercial 3D-Dixon sequence and an established 2D multi-gradient echo sequence. **Eur Radiol**. 2023 Feb 17. doi: 10.1007/s00330-023-09451-0. PMID: 36800012
337. Sonnweber T, Grubwieser P, Pizzini A, Boehm A, Sahanic S, Luger A, Schwabl C, Widmann G, Egger A, Hoermann G, Wöll E, Puchner B, Kaser S, Theurl I, Nairz M, Tymoszyk P, Weiss G, Joannidis M, Löffler-Ragg J, Tancevski I. Pulmonary recovery from COVID-19 in patients with metabolic diseases: a longitudinal prospective cohort study. **Sci Rep**. 2023 Feb 14;13(1):2599. doi: 10.1038/s41598-023-29654-1. PMID: 36788324 Free PMC article.
338. Gehrler CM, Mitterstiller AM, Grubwieser P, Meyron-Holtz EG, Weiss G, Nairz M. Advances in Ferritin Physiology and Possible Implications in Bacterial Infection. **Int J Mol Sci**. 2023 Feb 28;24(5):4659. doi: 10.3390/ijms24054659. PMID: 36902088
339. Sahanic S, Tymoszyk P, Luger AK, Hüfner K, Boehm A, Pizzini A, Schwabl C, Koppelstätter S, Kurz K, Asshoff M, Mosheimer-Feistritzer B, Coen M, Pfeifer B, Rass V, Egger A, Hörmann G, Sperner-Unterwieser B, Helbok R, Wöll E, Weiss G, Widmann G, Tancevski I, Sonnweber T, Löffler-Ragg J. COVID-19 and its continuing burden after 12 months: a longitudinal observational prospective multicentre trial. **ERJ Open Res**. 2023 Mar 13;9(2):00317-2022. doi: 10.1183/23120541.00317-2022. eCollection 2023 Mar. PMID: 36960350
340. Ellen Gelpi, Sigrid Klotz, Miriam Beyerle, Sven Wischniewski, Verena Harter, Harald Kirschner, Katharina Stolz, Christoph Reisinger, Elisabeth Lindeck-Pozza, Alexander Zoufaly, Marlene Leoni, Gregor Gorkiewicz, Martin Zacharias, Christine Haberler, Johannes Hainfellner, Adelheid Woehrer, Simon Hametner, Thomas Roetzer, Till Voigtländer, Gerda Ricken, Verena Endmayr, Carmen Haider, Judith Ludwig, Andrea Polt, Gloria Wilk, Susanne Schmid, Irene Erben, Anita Nguyen, Susanna Lang, Ingrid Simonitsch-Klupp, Christoph Kornauth, Maja Nackenhorst, Johannes Kläger, Renate Kain, Andreas Chott, Richard Wasicky, Robert Krause, Günter Weiss, Judith Löffler-Rag, Thomas Berger, Patrizia Moser, Afshin Soleiman, Martin Asslauer, Roland Sedivy,

- Nikolaus Klupp, Martin Klimpfinger, Daniele Risser, Herbert Budka, Lucas Schirmer, Anne-Katrin Pröbstel, Romana Höftberger Multifactorial White Matter Damage in the Acute Phase and Pre-Existing Conditions May Drive Cognitive Dysfunction after SARS-CoV-2 Infection: Neuropathology-Based Evidence **Viruses** 2023 Mar 31;15(4):908. doi: 10.3390/v15040908.
341. Gollmann-Tepeköylü C, Graber M, Hirsch J, Mair S, Naschberger A, Pözl L, Nägele F, Kirchmair E, Degenhart G, Demetz E, Hilbe R, Chen HY, Engert JC, Böhm A, Franz N, Lobenwein D, Lener D, Fuchs C, Weihs A, Töchterle S, Vogel GF, Schweiger V, Eder J, Pietschmann P, Seifert M, Kronenberg F, Coassin S, Blumer M, Hackl H, Meyer D, Feuchtner G, Kirchmair R, Troppmair J, Krane M, Weiss G, Tsimikas S, Thanassoulis G, Grimm M, Rupp B, Huber LA, Zhang SY, Casanova JL, Tancevski I, Holfeld J. Toll-Like Receptor 3 Mediates Aortic Stenosis Through a Conserved Mechanism of Calcification **Circulation**. 2023 May 16;147(20):1518-1533. doi:10.1161/CIRCULATIONAHA.122.063481. **Epub** 2023 Apr 4. PMID: 37013819
342. Brigo N, Neumaier E, Pfeifhofer-Obermair C, Grubwieser P, Engl S, Berger S, Seifert M, Reinstadler V, Oberacher H, Weiss G Timing of Interleukin-4 Stimulation of Macrophages Determines Their Anti-Microbial Activity during Infection with Salmonella enterica Serovar Typhimurium. **Cells**. 2023 Apr 14;12(8):1164. doi: 10.3390/cells12081164.PMID: 37190073
343. Sonnweber T, Tymoszuk P, Steringer-Mascherbauer R, Sigmund E, Porod-Schneiderbauer S, Kohlbacher L, Theurl I, Lang I, Weiss G, Löffler-Ragg J. The combination of supervised and unsupervised learning based risk stratification and phenotyping in pulmonary arterial hypertension-a long-term retrospective multicenter trial **BMC Pulm Med**. 2023 Apr 25;23(1):143. doi: 10.1186/s12890-023-02427-2.
344. Katharina Obermoser, Natascha Brigo, Andrea Schroll, Pablo Monfort-Lanzas, Johanna M Gostner, Sabine Engl, Simon Geisler, Miriam Knoll, Harald Schennach, Günter Weiss, Dietmar Fuchs, Rosa Bellmann-Weiler, Katharina Kurz Positive Effects of Probiotic Therapy in Patients with Post-Infectious Fatigue **Metabolites** 2023 May 8;13(5):639. doi: 10.3390/metabo13050639
345. Dichtl S, Diem G, Jäger M, Zaderer V, Lupoli G, Dächert C, Muenchhoff M, Graf A, Blum H, Keppler OT, Lass-Flörl C, Weiss G, Wilflingseder D, Posch W. Antiviral drugs block replication of highly immune-evasive Omicron subvariants ex vivo, but fail to reduce tissue inflammation. **Antiviral Res**. 2023 May;213:105581. doi: 10.1016/j.antiviral.2023.105581. **Epub** 2023 Mar 23. PMID: 36965526
346. Beyer C, Boehm A, Pizzini A, Grubwieser P, Feuchtner G, Bauer A, Weiss G, Loeffler-Ragg J, Friedrich G, Plank F. Undiagnosed chronic respiratory disorders in symptomatic patients with initially suspected and excluded coronary artery disease: insights from a prospective pilot study. *Front Med (Lausanne)*. 2023 Jun 15;10:1181831. doi: 10.3389/fmed.2023.1181831. **eCollection** 2023.PMID: 37396893

347. Sukhbaatar N, Schöller M, Fritsch SD, Linke M, Horer S, Träger M, Mazić M, Forisch S, Gonzales K, Kahler JP, Binder C, Lassnig C, Strobl B, Müller M, Scheiber-Mojdehkar B, Gundacker C, Dabsch S, Kain R, Hengstschläger M, Verhelst SHL, Weiss G, Theurl I, Weichhart T. Duodenal macrophages control dietary iron absorption via local degradation of transferrin. **Blood**. 2023 Jun 8;141(23):2878-2890. doi: 10.1182/blood.2022016632. PMID: 37018657
348. Hüfner K, Tymoszuk P, Sahanic S, Luger A, Boehm A, Pizzini A, Schwabl C, Koppelstätter S, Kurz K, Asshoff M, Mosheimer-Feistritzer B, Pfeifer B, Rass V, Schroll A, Iglseder S, Egger A, Wöll E, Weiss G, Helbok R, Widmann G, Sonnweber T, Tancevski I, Sperner-Unterweger B, Löffler-Ragg J. Persistent somatic symptoms are key to individual illness perception at one year after COVID-19 in a cross-sectional analysis of a prospective cohort study. **J Psychosom Res**. 2023 Jun;169:111234. doi: 10.1016/j.jpsychores.2023.111234. Epub 2023 Mar 17. PMID: 36965396 340.
349. Lanser L, Plaikner M, Schroll A, Burkert FR, Seiwald S, Fauser J, Petzer V, Bellmann-Weiler R, Fritsche G, Tancevski I, Duftner C, Pircher A, Seeber A, Zoller H, Kremser C, Henninger B, Weiss G. Tissue iron distribution in patients with anemia of inflammation: Results of a pilot study. **Am J Hematol**. 2023 Jun; 98(6):890-899. doi: 10.1002/ajh.26909. Epub 2023 Mar 5. PMID: 36880875
350. Knell A, Böhm A, Jäger M, Kerschbaum Julia, Engl S, Rudnicki M, Buchwinkler L, Bellmann-Weiler R, Posch W, Weiss G. Virus-Subtype-Specific Cellular and Humoral Immune Response to a COVID-19 mRNA Vaccine in Chronic Kidney Disease Patients and Renal Transplant Recipients. **Microorganisms**. 2023 Jul 5;11(7):1756. doi:10.3390
351. Piater T, Gietl M, Hofer S, Gostner JM, Sahanic S, Tancevski I, Sonnweber T, Pizzini A, Egger A, Schennach H, Loeffler-Ragg J, Weiss G, Kurz K. Persistent Symptoms and IFN- $\gamma$ -Mediated Pathways after COVID-19. **J Pers Med**. 2023 Jun 27;13(7):1055. doi: 10.3390/jpm13071055. PMID: 37511668
352. Loacker L, Egger A, Fux V, Bellmann-Weiler R, Weiss G, Griesmacher A, Hoermann G, Ratzinger F, Haslacher H, Schrezenmeier H, Anliker M. Serum sPD-L1 levels are elevated in patients with viral diseases, bacterial sepsis or in patients with impaired renal function compared to healthy blood donors. **Clin Chem Lab Med**. 2023 Jul 3. doi: 10.1515/cclm-2023-0232. Online ahead of print. PMID: 37401452
353. Ghoti H, Zreid H, Ghoti I, Bourgonje AR, Diepstra A, van Goor H, Avivi I, Jead H, van Eijk LE, Weiss G. Clinical outcome and humoral immune responses of  $\beta$ -thalassemia major patients with severe iron overload to SARS-CoV-2 infection and vaccination: a prospective cohort study.



**EClinicalMedicine** 2023 Jul 26;62:102096. doi: 10.1016/j.eclinm.2023.102096.  
eCollection 2023 Aug.

354. Grubwieser P, Hilbe R, Gehrler CM, Grander M, Brigo N, Hoffmann A, Seifert M, Berger S, Theurl I, Nairz M, Weiss G. *Klebsiella pneumoniae* manipulates human macrophages to acquire iron. **Front Microbiol.** 2023 Aug 11;14:1223113. doi: 10.3389/fmicb.2023.1223113. eCollection 2023. PMID: 37637102.
355. Rass V, Tymoszuk P, Sahanic S, Heim B, Ausserhofer D, Lindner A, Kofler M, Mahlknecht P, Boehm A, Hüfner K, Pizzini A, Sonnweber T, Kurz K, Pfeifer B, Kiechl S, Peball M, Kindl P, Putnina L, Fava E, Djamshidian A, Huber A, Wiedermann CJ, Sperner-Unterweger B, Wöll E, Beer R, Schiefecker AJ, Bellmann-Weiler R, Bachler H, Tancevski I, Pfausler B, Piccoliori G, Seppi K, Weiss G, Löffler-Ragg J, Helbok R. Distinct smell and taste disorder phenotype of post-acute COVID-19 sequelae. **Eur Arch Otorhinolaryngol.** 2023 Nov;280(11):5115-5128. doi: 10.1007/s00405-023-08163-x. Epub 2023 Sep 5. PMID: 37670171
356. Grander C, Meyer M, Steinacher D, Claudel T, Hausmann B, Pjevac P, Grabherr F, Oberhuber G, Grander M, Brigo N, Jukic A, Schwärzler J, Weiss G, Adolph TE, Trauner M, Tilg H. 24-Norursodeoxycholic acid ameliorates experimental alcohol-related liver disease and activates hepatic PPAR $\gamma$ . **JHEP Rep.** 2023 Aug 3;5(11):100872. doi: 10.1016/j.jhepr.2023.100872. eCollection 2023 Nov. PMID: 37818230
357. Sahanic S, Hilbe R, Dünser C, Tymoszuk P, Löffler-Ragg J, Rieder D, Trajanoski Z, Krogsdam A, Demetz E, Yurchenko M, Fischer C, Schirmer M, Theurl M, Lener D, Hirsch J, Holfeld J, Gollmann-Tepeköylü C, Zinner CP, Tzankov A, Zhang SY, Casanova JL, Posch W, Wilflingseder D, Weiss G, Tancevski I. SARS-CoV-2 activates the TLR4/MyD88 pathway in human macrophages: A possible correlation with strong pro-inflammatory responses in severe COVID-19. **Heliyon.** 2023 Nov 17;9(11):e21893. doi: 10.1016/j.heliyon.2023.e21893. eCollection 2023 Nov. PMID: 38034686
358. Taenzer M, Löffler-Ragg J, Schroll A, Monfort-Lanzas P, Engl S, Weiss G, Brigo N, Kurz K. Urine Metabolite Analysis to Identify Pathomechanisms of Long COVID: A Pilot Study. **Int J Tryptophan Res.** 2023 Dec 22;16:11786469231220781. doi: 10.1177/11786469231220781. eCollection 2023. PMID: 38144169

## **2. Reviews (peer-reviewed)**

1. Fuchs D, Weiss G, Reibnegger G, Wachter H: The role of neopterin as a monitor of cellular immune activation in transplantation, inflammatory, infectious and malignant diseases. **Crit Rev Clin Lab Sci.** 29:307-41, 1992

2. Fuchs D, Weiss G, Wachter H: Neopterin, biochemistry and clinical use as a marker for cellular immune reactions. **Int Arch Allergy Immunol.** 101:1-6, 1993
3. Reibnegger G, Weiss G, Wachter H: Self-organizing neural networks as a means of cluster analysis in clinical chemistry. **Eur J Clin Chem Clin Biochem.** 31:311-6, 1993
4. Pantopoulos K, Weiss G, Hentze MW. Nitric oxide and posttranscriptional regulation of iron traffic. **Trends Cell Biol.** 4:82-6, 1994
5. Fuchs D, Baier-Bitterlich G, Hausen A, Murr C, Weiss G, Werner ER, Werner-Felmayer G, Reibnegger G. Neopterin als immunologische Meßgröße. **Dtsch med Wschr.** 120:567-70, 1995
6. Weiss G, Wachter H, Fuchs D. Linkage of cell mediated immunity to iron metabolism. **Immunol Today** (Trends in Immunology) 16:495-500, 1995
7. Weiss G, Wiedner B, Zoller H, Schobersberger W, Fuchs D. Iron metabolism and immune function. **Brit J Anaesth.** 81:6-9, 1998
8. Weiss G. Iron and anemia of chronic disease. **Kidney Internat.** 55:12-7, 1999
9. Biamba G, Gordeuk VR, Thuma PR, Weiss G. Iron chelation therapy for malaria. **Pharmacol Therapeut.** 81:53-75, 1999
10. Weiss G, Loyevsky M, Gordeuk VR. Dexrazoxane (ICRF-187)-a review. **General Pharmacol.** (Vascular Pharmacol) 32:155-8, 1999
11. Widner B, Wirleitner B, Baier-Bitterlich G, Weiss G, Fuchs D. Cellular immune activation, neopterin production, tryptophan degradation and the development of immunodeficiency. **Arch Immunol Ther Exp.** 48:251-8, 2000
12. Weiss G. Iron and immunity. A double edged sword. **Eur J Clin Invest** 32:70-8, 2002
13. Weiss G. Iron, Immunity, Infection. A classical triade. Review. **Wien Klin Wochenschr.** 114:357-67, 2002
14. Weiss G. Pathophysiology and treatment of anemia of chronic disease. **Blood Rev.** 16:87-96, 2002
15. Gasche C, Lomer MCE, Cavill I, Weiss G. Iron, Anaemia, and Inflammatory Bowel Diseases. **Gut** 53:1190-7, 2004
16. Weiss G. Linkage of pteridine metabolism to iron homeostasis. **Pteridines** 15; 120-6, 2004

17. Weiss G, Gordeuk VR. Risks and benefits of iron therapy for chronic anemias. **Eur J Clin Invest.** 35 Suppl 3:36-45, 2005
18. Theurl I, Fritsche G, Ludwiczek S, Garimorth K, Bellmann-Weiler-R, Weiss G. The macrophage: A cellular factory at the interphase between iron and immunity for the control of infections. **Biometals** 18:359-66, 2005
19. Weiss G. Modification of iron regulation by the inflammatory response. **Best Pract Res Clin Haematol.** 18:183-201, 2005
20. Weiss G, Goodnough LT. Anemia of chronic disease. **N Engl J Med.** 352:1011-23, 2005
21. Nairz M, Weiss G. Molecular and clinical aspects of iron homeostasis: from anemia to hemochromatosis. **Wien Klin Wochenschr.** 118:442-62, 2006
22. Schroecksadel K, Zangerle R, Bellmann-Weiler R, Garimorth K, Weiss G, Fuchs D. Indoleamine-2, 3-dioxygenase and other interferon-gamma-mediated pathways in patients with human immunodeficiency virus infection. **Curr Drug Metab.** 8: 225-236, 2007
23. Bellmann-Weiler R, Weiss G. Antibiotic therapy in elderly patients. **Dtsch Med Wochenschr.** 133:350-3, 2008
24. Fritsche G, Weiss G. Therapeutic options for the treatment of infections with multiresistant grampositive bacteria in oncological patients. **Magazine of European Medical Oncology** 1:177-80, 2008
25. Ludwig H, Auberger T, Burghuber OCh, Gnant M, Hopfinger G, Jäger U, Keil F, Kornek G, Linkesch W, Petru E, Pirker R, Pittermann E, Reinhaller A, Samonigg H, Steger G, Stockenhuber F, Studnicka M, Weiss G, Zielinski C. The use of erythropoiesis-stimulating proteins in anemic patients with malignant diseases. **Wien Klin Wochenschr.** 120:507-13, 2008
26. Weiss G. Iron metabolism in the anemia of chronic disease: **Biochim Biophys Acta**—general subjects. 1790:682-93, 2009
27. Mair SM, Weiss G. New Pharmacological Concepts for the treatment of iron overload disorders. **Current Medical Chemistry** 16:576-90, 2009
28. Bellmann-Weiler R, Weiss G. Pitfalls in the diagnosis and therapy of infections in elderly patients. **Gerontology** 55:241-9, 2009
29. Weiss G. Chronische Entzündungsanämie. Epiphenomen oder Adaptationsmechanismus der Entzündung? **Aktuelle Rheumatologie** 34:93-7, 2009
30. Sucher R, Schroecksadel K, Weiss G, Margreiter R, Fuchs D, Brandacher G. Neopterin, a prognostic marker in human malignancies. **Cancer Lett.** 287:13-22, 2010

31. Rahier JF, Ben-Horin S, Chowers Y, Conlon C, De Munter P, D'Haens G, Domenech E, Eliakim R, Eser A, Frater J, Gassull M, Giladi M, Kaser A, Lemann M, Moreels T, Moschen A, Pollok R, Reinisch W, Schunter M, Stange EF, Tilg H, Van Assche G, Viget N, Vucelic B, Walsh A, Weiss G, Yazdanpanah Y, Zabana Y, Travis SPL, Colombel JF. European evidence-based Consensus on the prevention, diagnosis and management of opportunistic infections in inflammatory bowel disease. **Journal of Crohn and Colitis** 3:47-91, 2009
32. Weiss G, Gasche D. Pathogenesis and Treatment of Anemia in inflammatory bowel disease. **Haematologica** 95:175-8, 2010
33. Weiss G. Genetic mechanisms and contributing factors in hemochromatosis. **Nature Rev Gastroenterology & Hepatology** 7:50-8, 2010
34. Nairz M, Schroll A, Sonnweber T, Weiss G. The struggle for iron- a metal at the host-pathogen interface. **Cell Microbiol.** 12:1691-702, 2010
35. Kurz K, Schroecksnadel S, Weiss G, Fuchs D. Association between increased tryptophan degradation and depression in cancer patients. **Curr Opin Clin Nutr Metab Care.** 14:49-56, 2011
36. Gasche C, Evstatiev R, Haas T, Kaser A, Knoflach P, Petritsch W, Weiss G, Reinisch W. Diagnosis and treatment of iron deficiency and anaemia in inflammatory bowel diseases. Consensus of the Austrian IBD Working Party. **Z Gastroenterol.** 49:627-32, 2011
37. Nairz M, Sonnweber T, Schroll A, Theurl I, Weiss G. The pleiotropic effects of erythropoietin in infection and inflammation. **Microbes Infect.** 14:238-46, 2012
38. McMurray John JV, Parfrey PS, Adamson JW, Aljama P, Berns JS, Bohlius Julia, Drüeke TB, Finkelstein FO, Fishbane S, Ganz T, MacDougall IC, McDonald RA, McMahon Lawrence P, Obrador GT, Strippoli GFM, Weiss G, Wiecek A. Kidney disease: Improving Global Outcomes (KDIGO) Anemia Work Group. KDIGO clinical practice guideline for anemia in chronic kidney disease. **Kidney International Supplements** 2:279-335, 2012
39. Weiss G, Schett G. Anaemia in inflammatory rheumatic diseases. **Nat Rev Rheumatol.** 9:205-215, 2013
40. Koskenkorva-Frank TS, Weiss G, Koppenol WH, Burckhardt S. The complex interplay of iron metabolism, reactive oxygen species, and reactive nitrogen species: Insights into the potential of various iron therapies to induce oxidative and nitrosative stress. **Free Radic Biol Med.** 65:1174-1194, 2013
41. Nairz M, Haschka D, Demetz E, Weiss G. Iron at the interface of immunity and infection. **Front Pharmacol.** 5:152, 2014

42. Rampton D, Folkersen J, Fishbane S, Hedenus M, Howaldt S, Locatelli F, Patni S, Szebeni J, Weiss G. Hypersensitivity reactions to intravenous iron: guidance for risk minimization and management. **Haematologica**. 99:1671-6, 2014
43. Aigner E, Weiss G, Datz C. Dysregulation of iron and copper homeostasis in nonalcoholic fatty liver. **World J Hepatol**. 27:177-88, 2015
44. Nairz M, Schroll A, Demetz E, Tancevski I, Theurl I, Weiss G. "Ride on the ferrous wheel" – The cycle of iron in macrophages in health and disease. **Immunobiology** 220:280-294, 2015
45. Weiss G, Schaible UE. Macrophage defense mechanisms against intracellular bacteria. **Immunol Rev**. 264:182-203, 2015
46. Nielsen OH, Ainsworth M, Coskun M, Weiss G. Management of Iron-Deficiency Anemia in Inflammatory Bowel Disease: A Systematic Review. **Medicine (Baltimore)** 94:e963, 2015
47. Weiss G. Anemia of Chronic Disorders: New Diagnostic Tools and New Treatment Strategies. **Semin Hematol**. 52:313-20, 2015
48. Szebeni J, Fishbane S, Hedenus M, Howaldt S, Locatelli F, Patni S, Rampton D, Weiss G, Folkersen J. Hypersensitivity to intravenous iron: classification, terminology, mechanisms and management. **Br J Pharmacol**. 172:5025-36, 2015
49. Soares MP, Weiss G. The Iron age of host-microbe interactions. **EMBO Rep**. 16:1482-500, 2015
50. Nairz M, Theurl I, Wolf D, Weiss G. Iron deficiency or anemia of inflammation? : Differential diagnosis and mechanisms of anemia of inflammation. **Wien Med Wochenschr**. 166:411-423, 2016
51. Nielsen OH, Coskun M, Weiss G. Iron replacement therapy: do we need new guidelines? **Curr Opin Gastroenterol**. 32:128-35, 2016
52. Nairz M, Theurl I, Swirski FK, Weiss G. "Pumping iron"-how macrophages handle iron at the systemic, microenvironmental, and cellular levels. **Pflugers Arch**. 469:397-418, 2017
53. Pizzini A, Lunger L, Demetz E, Hilbe R, Weiss G, Ebenbichler C, Tancevski I. The Role of Omega-3 Fatty Acids in Reverse Cholesterol Transport: A Review. **Nutrients**. 6;9, 2017
54. Weiss G, Carver PL. Role of divalent metals in infectious disease susceptibility and outcome. **Clin Microbiol Infect**. 24:16-23, 2018

55. Nielsen OH, Soendergaard C, Vikner ME, Weiss G. Rational Management of Iron-Deficiency Anaemia in Inflammatory Bowel Disease. **Nutrients**. 10(1). pii: E82, 2018
56. Kaindlstorfer C, Jellinger KA, Eschlböck S, Stefanova N, **Weiss G**, Wenning GK. The Relevance of Iron in the Pathogenesis of Multiple System Atrophy: A Viewpoint **J Alzheimers Dis**. 61:1253-1273, 2018
57. Nairz M, Dichtl S, Schroll A, Haschka D, Tymoszuk P, Theurl I, Weiss G. Iron and innate antimicrobial immunity-Depriving the pathogen, defending the host. **J Trace Elem Med Biol**. 48:118-133, 2018
58. Sonnweber T, Pizzini A, Nairz M, Weiss G, Tancevski I. Arachidonic Acid Metabolites in Cardiovascular and Metabolic Diseases. **Int J Mol Sci**. 19, 2018
59. Pfeifhofer-Obermair C, Tymoszuk P, Petzer V, Weiss G, Nairz M. Iron in the Tumor Microenvironment-Connecting the Dots. **Front Oncol**. 8:549, 2018
60. Petzer V, Theurl I, Weiss G. Established and Emerging Concepts to Treat Imbalances of Iron Homeostasis in Inflammatory Diseases. **Pharmaceuticals (Basel)**. 11, pii: E135, 2018
61. Weiss G, Ganz T, Goodnough LT. Anemia of Inflammation. **Blood**. 133:40-50, 2019
62. Cronin SJF, Woolf CJ, Weiss G, Penninger JM. The Role of Iron Regulation in Immunometabolism and Immune-Related Disease. **Front Mol Biosci**. 6:116, 2019
63. Sonnweber T, Pizzini A, Tancevski I, Löffler-Ragg J, Weiss G. Anaemia, iron homeostasis and pulmonary hypertension: a review. **Intern Emerg Med**. Feb 10. doi: 10.1007/s11739-020-02288-1, 2020.
64. Nairz M, Weiss G. Iron in infection and immunity. **Mol Aspects Med**. 2020 May 24:100864. doi: 10.1016/j.mam.2020.100864. PMID: 32461004
65. Valente de Souza L, Hoffmann A, Weiss G. Impact of bacterial infections on erythropoiesis. **Expert Rev Anti Infect Ther**. 19:619-633, 2021.
66. Seiwald S, Simeon A, Hofer E, Weiss G, Bellmann-Weiler R. Tularemia Goes West: Epidemiology of an Emerging Infection in Austria. **Microorganisms**. 2020 Oct 16;8(10):1597. doi: 10.3390/microorganisms8101597
67. Haschka D, Hoffmann A, Weiss G. Iron in immune cell function and host defense. **Semin Cell Dev Biol**. 2020 Dec 29:S1084-9521(20)30199-3. doi: 10.1016/j.semcd.2020.12.005
68. Richards T, Breyman C, Brookes MJ, Lindgren S, Macdougall IC, McMahon LP, Munro MG, Nemeth E, Rosano GMC, Schiefke I, Weiss G. Questions and

answers on iron deficiency treatment selection and the use of intravenous iron in routine clinical practice. **Ann Med.** 2021 Dec;53(1):274-285. doi: 10.1080/07853890.2020.1867323

69. Petzer V, Theurl I, Weiss G, Wolf D, EnvIRONmental Aspects in Myelodysplastic Syndrome. **Int J Mol Sci.** 2021 May 14;22(10):5202. doi: 10.3390/ijms22105202. PMID: 34068996
70. Lanser L, Fuchs D, Kurz K, **Weiss G.** Physiology and Inflammation Driven Pathophysiology of Iron Homeostasis-Mechanistic Insights into Anemia of Inflammation and Its Treatment **Nutrients.** 2021 Oct 22;13(11):3732. doi: 10.3390/nu13113732.PMID: 34835988
71. Burkert FR, Lanser L, Bellmann-Weiler R, **Weiss G.** Coronavirus Disease 2019: Clinics, Treatment, and Prevention **Front Microbiol.** 2021 Nov 11;12:761887. doi: 10.3389/fmicb.2021.761887. eCollection 2021.PMID: 34858373
72. Rabady S, Altenberger J, Brose M, Denk-Linnert DM, Fertl E, Göttinger F, de la Cruz Gomez Pellin M, Hofbauer B, Hoffmann K, Hoffmann-Dorninger R, Kocuzilla R, Lammel O, Lamprecht B, Löffler-Ragg J, Müller CA, Poggenburg S, Rittmannsberger H, Sator P, Strenger V, Vonbank K, Wancata J, Weber T, Weber J, **Weiss G,** Wendler M, Zwick RH. [Guideline S1: Long COVID: Diagnostics and treatment strategies] **Wien Klin Wochenschr.** 2021 Dec 1:1-42. doi:10.1007/s00508-021-01974-0. Online ahead of print. PMID: 348514
73. Marques O, **Weiss G,** Muckenthaler MU. The role of iron in chronic inflammatory diseases: from mechanisms to treatment options in anemia of inflammation. **Blood.** 2022 Nov 10;140(19):2011-2023. doi: 10.1182/blood.2021013472.
74. Rath E, Bonelli M, Duftner C, Gruber J, Mandl P, Moazedi-Furst F, Pieringer H, Puchner R, Flick H, Salzer HJF, Weiss G, Winkler S, Skvara H, Moschen A, Hofer H, Feurstein J, Sautner J. National consensus statement by the Austrian Societies for Rheumatology, Pulmonology, Infectiology, Dermatology and Gastroenterology regarding the management of latent tuberculosis and the associated utilization of biologic and targeted synthetic disease modifying antirheumatic drugs (DMARDs). **Wien Klin Wochenschr.** 2022 Nov;134(21-22):751-765. doi: 10.1007/s00508-022-02062-7. Epub 2022 Aug 29. PMID: 36036323
75. Sonnweber T, Birgit S, Weiss G, Löffler-Ragg J. Pulmonary recovery after COVID-19 - a review. **Expert Rev Respir Med.** 2023 Jan-Jun;17(6):447-457. doi: 10.1080/17476348.2023.2210837. Epub 2023 Jul 14. PMID: 37449405

### **3. Editorials**

1. Zoller H, Weiss G. Another link in the iron chain? **Gastroenterology** 118:632-4, 2000

2. Weiss G. Disentangling iron regulatory networks. **Blood** 101:344, 2003
3. Weiss G. Iron caught on the shuttle. **Blood** 111:980-81, 2008
4. Weiss G. Iron in the inflamed gut- another pro-inflammatory hit. **Gut** 60:287-88, 2011
5. Weiss G. Monitoring iron therapy in chronic heart failure. **Eur J Heart Fail.** 15:711-2, 2013
6. Weiss G. Intestinal Irony: How Probiotic Bacteria Outcompete Bad Bugs. **Cell Host & Microbe** 14:3-5, 2013
7. Fang FC, Weiss G. Iron ERRs with Salmonella. **Cell Host & Microbe.** 15:515-6, 2014
8. Weiss G. Microbial hijacking of mammalian iron shuttling. **J Exp Med.** 211:1009, 2014
9. Weiss G. Dietary iron supplementation: a proinflammatory attack on the intestine? **Gut.** 64:696-7, 2015
10. Weiss G. Kronenberg F. Intravenous iron administration: new observations and time for the next steps. **Kidney Int.** 87:10-12, 2015
11. Weiss G. Metals: Calprotectin and iron match up. **Nat Chem Biol.** 11:756-7, 2015
12. Weiss G. Nutrition and infection. **Clin Microbiol Infect.** 24:8-9, 2018
13. Weiss G. Does iron let boys grow faster?! **Haematologica.** 104(8):1503-1505, 2019
14. Nairz M, Weiss G. Iron in health and disease. **Mol Aspects Med.** 2020 Oct;75:100906. doi: 10.1016/j.mam.2020.100906. Epub 2020 Sep 22.

#### **4. Letters to the Editors/Short Reports**

1. Fuchs D, Weiss G, Werner-Felmayer G, Wachter H: Cytokine-induced increase in liver serotonin. **Immunol Lett.** 28:259, 1991
2. Weiss G, Werner ER, Werner-Felmayer G, Wachter H: Postoperative delirium and plasma tryptophan. **Lancet** 338:1078, 1991
3. Werner-Felmayer G, Werner ER, Weiss G, Wachter H: Peak E contaminated L-tryptophan and immune activation. **Lancet** 338:511, 1991



4. Fuchs D, Weiss G, Werner-Felmayer G, Reibnegger G, Wachter H: Immune activation and neuronal injury in AIDS. **Trends Neurosci.** 15:253, 1992
5. Fuchs D, Weiss G, Wachter H: Anemia of chronic disease: A misnomer. **Ann Intern Med** 116:520, 1992
6. Fuchs D, Weiss G, Wachter H: Pathogenesis of chronic fatigue syndrome. **J Clin Psych.** 53:296, 1992
7. Fuchs D, Weiss G, Werner-Felmayer G, Wachter H: Erythropoietin and decreased erythropoiesis in pregnancy. **Blood** 79:533-534, 1992
8. Fuchs D, Zangerle R, Artner-Dworzak E, Weiss G, Werner-Felmayer G, Wachter H: Increased interferon-gamma and reduced hemoglobin in patients with human immunodeficiency virus type 1 infection. **J Acq Immune Def Synd.** 5:424-425, 1992
9. Weiss G, Fuchs D, Werner-Felmayer G, Wachter H: Hyperphenylalaninemia. **Neurology** 42:704, 1992
10. Weiss G, Fuchs D, Werner-Felmayer G, Wachter H: Therapy of Plasmodium-falciparum parasitemia with desferrioxamine. **Blood** 80:843-4, 1992
11. Werner-Felmayer G, Werner ER, Weiss G, Wachter H: Tetrahydrobiopterin biosynthesis inhibition for diminishing nitric oxide production in cytokine-mediated septic shock. **J Nat Cancer Inst.** 84:1671-1672, 1992
12. Diez-Ruiz A, Al-Amrani M, Weiss G, Gutierrez-Gea F, Wachter H, Fuchs D: Increased interferon-gamma and neopterin concentrations in patients with acute brucellosis. **J Infect Dis.** 167:504-505, 1993
13. Fuchs D, Weiss G, Wachter H: Making the blood supply safer. **Ann Intern Med.** 118:574, 1993
14. Weiss G, Zangerle R, Wachter H, Fuchs D: Interferon-gamma and coronary lesions in HIV infection. **Lancet** 341:383, 1993
15. Fuith LC, Czarnecki M, Weiss G, Wachter H, Fuchs D: Clues to enhance the identification of human immunodeficiency virus-infected women. **Obstetrics & Gynecology** 81:159-160, 1993
16. Weiss G, Fuchs D, Wachter H: High stored iron levels and the risk of myocardial infarction. **Circulation** 87:1425, 1993
17. Zaknun D, Weiss G, Glatzl J, Wachter H, Fuchs D: Neopterin levels during acute rubella in children. **Clin Infect Dis.** 17:521-522, 1993

18. Weiss G, Murr C, Reibnegger G, Wachter H, Fuchs D. Iron linked to immune activation. **Brit Med J.** 307:2067, 1993
19. Fuchs D, Weiss G, Murr C, Wachter H. Interleukin-10 for common variable immunodeficiency. **Lancet** 342:1363, 1993
20. Fuith LC, Czarnecki M, Weiss G, Wachter H, Fuchs D. Prognosis of human immunodeficiency virus infected women after delivery. **Am J Obstet Gynecol.** 169:752-753, 1993
21. Fuchs D, Weiss G, Murr C, Wachter H. Cyclosporin for erythropoietin resistance. **Lancet** 343:1231, 1994
22. Fuchs D, Murr C, Reibnegger G, Weiss G, Werner ER, Werner-Felmayer G, Wachter H. Nitric oxide synthase and antimicrobial armature of human macrophages. **J Infect Dis.** 169:224, 1994
23. Weiss G, Umlauf F, Grünewald K. Nitrate in chronic heart disease. **Lancet** 344: 873, 1994
24. Ambach E, Rabl W, Unger C, Weiss G. The inadequacy of death certificates on myocardial infarction without autopsy verification. **J Forensic Sci.** 71: 75-76, 1995
25. Weiss G, Widner B, Zoller H, Fuchs D. The immunobiology of zinc and the kidney. **Immunol Today** 19:193-194, 1998
26. Widner B, Weiss G, Fuchs D. Tryptophan degradation to control T-cell responsiveness. **Immunol Today** 21:250, 2000
27. Weiss G, Gänzer H. Coronary atherosclerosis and body iron stores. **J Am Card Coll** 41:1849-50, 2003
28. Weiss G., Theurl I. Monocyte hepcidin and the anemia of chronic disease. **Blood** 111:3902-3, 2008
29. Schroecksnadel K, Weiss G, Fuchs D. Beta2-microglobulin as a biomarker in peripheral arterial disease: proteomic profiling and clinical studies. **Circulation.** 117: 330, 2008
30. Schroecksnadel S, Kurz K, Weiss G, Fuchs D. Tryptophan catabolism during intracellular infection. **J Infect Dis.** 205:1617-8, 2012
31. Gomollón F, Chowers Y, Danese S, Dignass A, Haagen Nielsen O, Lakatos PL, Lees CW, Lindgren S, Lukas M, Mantzaris GJ, Michetti P, Moum B, Peyrin-Biroulet L, Toruner M, van der Woude J, Weiss G, Stoevelaar H, Reinisch W. European Medicines Agency recommendations for allergic reactions to intravenous ironcontaining medicines. **Aliment Pharmacol Ther.** 39:743-4, 2014

32. Weiss G, Kronenberg F. Intravenous iron administration. **Kidney Int.** 87:1262, 2015
33. Weiss G, Möst J. Reply to Letter by Arnott et al. **J Infect Dis.** 215:659-660, 2019
34. Lanser L, Bellmann-Weiler R, Öttl KW, Huber L, Griesmacher A, Theurl I, Weiss G. Evaluating the clinical utility and sensitivity of SARS-CoV-2 antigen testing in relation to RT-PCR Ct values. **Infection.** 2020 Nov 13:1-3. doi: 10.1007/s15010-020-01542-0.
35. Weiss G, Bellmann-Weiler R. Rapid antigen testing and non-infectious shedding of SARS-Cov2. **Infection.** 2021 Jan 2:1-2. doi: 10.1007/s15010-020-01570
36. Burkert FR, Niederreiter L, Dichtl W, Mayr A, Virgolini I, Klausner A, Weiss G, Bellmann-Weiler R. Case report of a COVID-19-associated myocardial infarction with no obstructive coronary arteries; the mystery of the phantom embolus or local endothelitis. **Eur Heart J Case Rep.** 2021 Jan 6;5(2); ytaa521 doi:10.1093/ehjcr/ytaa521. PMID: 33598613
37. Weiss G. Nirmatrelvir Use during the Omicron Surge, **N Engl J Med.** 2022 Dec 29;387(26):2480. doi: 10.1056/NEJMc2213868. PMID: 36577108
38. Petzer V, Weiss G. Concerns on perioperative anaemia management in the FIT trial. **Lancet Haematol.** 2023 Jul;10(7):e485. doi: 10.1016/S2352-3026(23)00132-1. PMID: 37407135

## **5. Case Reports**

1. Bellmann R, Sturm W, Pechlaner C, Weiss G, Bellmann-Weiler R, Wiedermann C, Patsch JR. Imported malaria: six cases of severe *Pl. falciparum* infection in Innsbruck, Austria, within a period of five weeks. **Wien Klin Wochenschr** 112 453-458, 2000
2. Sturm W, Gaenzler H, Heiningner-Rothbucher D, Neumayr G, Kirchmair R, Patsch J, Weiss G. Unsuspected mesenteric vein thrombosis in a patient with a hereditary bleeding disorder. **Blood Coagul Fibrinolysis.** 14:599-600, 2003
3. Eller P, Theurl I, Koppelstaetter F, Weiss G. Pyopneumothorax due to *Streptococcus milleri*. **Wien Klin Wochenschr.** 118:207, 2006
4. Keller M, Scholl-Buergi S, Sergi C, Theurl I, Weiss G, Unsinn KM, Trawöger R. An unusual case of intrauterine symptomatic neonatal liver failure. **Klin Padiatr.** 220:32-6, 2008
5. Garimorth K, Kountchev J, Bellmann R, Semenitz B, Weiss G, Joannidis M. Lemierre's syndrome following infectious mononucleosis. **Wien Klin Wochenschr.** 120:181-183, 2008

6. Daxecker M, Weiss G. Therapy-resistant tuberculous skin abscesses after methylprednisolone therapy. **Dtsch Med Wochenschr.** 133:346-9, 2008
7. Stelzmueller I, Bellmann-Weiler R, Klaus A, Weiss G, Bonnati H. Abdominal tuberculosis: experience with three cases from an Austrian centre. **European Surgery –Acta Chirurgica Austriaca.** 41:76-80, 2009
8. Kurz K, Schwabegger A, Schreieck S, Zelger B, Weiss G, Bellmann-Weiler R. Cystic echinococcosis in the thigh: a case report. **Infection.** 47(2):323-329. doi: 10.1007, 2019
9. Pizzini A, Sonnweber T, Frank R, Theurl M, Weiss G, Tancevski I, Löffler-Ragg J, Pizzini A, et al. Clinical implications of partial anomalous pulmonary venous connection: a rare cause of severe pulmonary arterial hypertension. **Pulm Circ.** 10(1):2045894019885352, 2020
10. Denicolò S, Laydevant S, Fink J, Geiger C, Pizzini A, Sarcletti M, Zschocke J, Bellmann-Weiler R, Weiss G, Tancevski I. Sarcoid-like lesions obfuscating the diagnosis of disseminated Mycobacterium genavense infection in a patient with IL-12R $\beta$ 1-associated immunodeficiency. **BMC Infect Dis.** 2022 Oct 4;22(1):770. doi: 10.1186/s12879-022-07644-4. PMID: 36192705

## **6. Books**

1. Wachter H, Fuchs D, Hausen A, Reibnegger G, Weiss G, Werner ER, Werner-Felmayer G (Herausgeber). Neopterin. Biochemistry-Methods-Clinical Application, de Gruyter, Berlin, 1992
2. Weiss G, Gordeuk VR, Hershko C (editors): „Anemia of Chronic Disease“, CRC Press, Taylor and Francis Group, Boca Raton, FL, USA, pp 1-752, 2005 (ISBN: 0-8247-5972-9)
3. Fritsche G, Bellmann-Weiler R, Lass-Floerl C, Weiss G. Innsbrucker Infektionsbüchlein. Eigenverlag-Landeskrankenhaus Innsbruck; 1. Auflage 2008; 2. Auflage 2009

## **7. Chapters in Books**

1. Grunicke H, Yamada Y, Atsumeda Y, Helliger W, Schletterer C, Talasz H, Weiss G, Puschendorf B, Weber G: Imbalance of histone metabolism in hepatocellular carcinoma. Liver Cell Carcinoma. Edited by P Bannasch, D Keppler, G Weber. Dordrecht, Boston, London, Kluwer Academic Publishers, 1989, pp 401-410
2. Weiss G: Bedeutung von Histonacetylierung und H1-Histonen für die Replikation in regenerierender Rattenleber und im Hepatom AS 30D. Dissertation zur

Erlangung des Doktorgrades an der Medizinischen Fakultät der Leopold-Franzens Universität Innsbruck, 1990

3. Fuchs D, Möller AA, Weiss G, Dierich MP, Wachter H: Immune activation, impaired tryptophan metabolism and neurologic/psychiatric symptoms in HIV infection. HIV-1 infection of the central nervous system. Edited by S Weis, H Hippus. Seattle, Toronto, Goettingen, Bern, Hogrefe & Huber Publishers, 1992, pp 103-19
4. Fuith LC, Czarnecki M, Hausen A, Reibnegger G, Weiss G, Werner-Felmayer G, Wachter H, Fuchs D: Immune activation in pregnancy and monitoring of cell-mediated immunity with neopterin. Recent Developments in Gynecological Endocrinology. Edited by AR Genazzani, AD Genazzani, G D'Ambrogio. Lancs, The Parthenon Publishing Group, 1992, pp 127-32
5. Werner ER, Werner-Felmayer G, Weiss G, Wachter H: Parallel induction of indoleamine 2,3-dioxygenase and guanosine triphosphate cyclohydrolase I by cytokines. Advances in Tryptophan Research. Edited by I Ishiguro, R Kido, T Nagatsu, Y Nagamura, Y Ohta. Toyoake, Japan, Fujita Health University Press, 1992, pp 405-8
6. Werner-Felmayer G, Werner ER, Weiss G, Wachter H: Tetrahydrobiopterin-dependent nitric oxide synthase in the human cell line ME-180. The Biology of Nitric Oxide. Part II: Enzymology, Biochemistry and Immunology. Edited by S Moncada, MA Marletta, JB Hibbs, EA Higgs. Colchester, UK, Portland Press, 1992, pp 173-75
7. Werner-Felmayer G, Werner ER, Weiss G, Wachter H: Peak E contaminated L-tryptophan and macrophage activation. Advances in Tryptophan Research. Edited by I Ishiguro, R Kido, T Nagatsu, Y Nagamura, Y Ohta. Toyoake, Japan, Fujita Health University Press, 1992, pp 361-3
8. Fuchs D, Hausen A, Reibnegger G, Weiss G, Werner ER, Werner-Felmayer G, Wachter H: Neopterin, interferon-gamma and immunodeficiency states. Host Defense Dysfunction in Trauma, Shock and Sepsis. Edited by E Faist, J Meakins, FW Schildberg. Berlin, Heidelberg, Springer Verlag, 1993, pp 715-8
9. Werner-Felmayer G, Werner ER, Weiss G, Wachter H. Modulation of nitric oxide synthase activity in intact cells by intracellular tetrahydrobiopterin levels. Adv Exp Med Biol 338:309-312; 1993
10. Werner ER, Werner-Felmayer G, Weiss G, Wachter H. Stimulation of tetrahydrobiopterin synthesis by cytokines in human and in murine cells. Adv. Exp Med Biol 338:203-209; 1993
11. Fuith LC, Fuchs D, Hausen A, Reibnegger G, Weiss G, Werner ER, Wachter H: Urinary neopterin as a marker for cellular immune activation in neoplasia. Updating on Tumor Markers in Tissues and in Biological Fluids: Basic Aspects and

Clinical Applications. Edited by AM Ballesta, GC Torre, E Bombardieri, M Gion, R Molina. Torino, Edizioni Minerva Medica, 1993, pp 467-74

12. Weiss G, Goossen B, Doppler W, Fuchs D, Pantopoulos K, Werner-Felmayer G, Grünewald K, Wachter H, Hentze MW. Stimulation of IRE-BP activity of IRF by tetrahydrobiopterin and cytokine dependent induction of nitric oxide synthase. Progress in Iron Research. Edited by C. Herschko; Adv. Exp. Med Biol. 356:133-40, 1994
13. Fuchs D, Zangerle R, Murr C, Sarcletti M, Weiss G, Wachter H. Soluble tumor necrosis factor receptors and immune activation in patients with human immunodeficiency virus infection. Molecular Biology of Haematopoiesis, Vol 3: Abraham NG, Shaddock RK, Levine AS, Takaku F. 1994,117-125
14. Fuchs D, Möller AA, Weiss G, Werner-Felmayer G, Dierich MP, Wachter H. Immune stimulation in patients with human immunodeficiency: Virus infection correlates with tryptophan degradation and with neuropsychiatric abnormalities. L-Tryptophan: Current prospects in medicine and drug safety. Edited by W Kochen, H Steinhart. Berlin, New York, W de Gruyter, 1994, pp91-98
15. Weiss G, Goossen B, Doppler W, Fuchs D, Werner-Felmayer G, Grünewald K, Wachter H, Hentze MW. Modulation of intracellular iron metabolism by nitric oxide. in "The Immune Consequences of Sepsis, Trauma and Shock. Edited by E.Faist Vol 1. 1996, 743-747
16. Weiss G. Eisenstoffwechsel und zelluläre Immunität. Target Forum 1/97 Hämatologie-Onkologie-Immunologie, pp31-36
17. Fritsche G, Larcher C, Schennach H, Weiss G. Bedeutung regulatorischer Wechselwirkungen zwischen Eisenstoffwechsel und Stickstoffmonoxidmetabolismus für die Immunabwehr gegenüber *Pl. falciparum* Mitt Österr. Ges Tropenmed. Parasitol. 22; 69-74; 2000
18. Weiss G. Advances in the Diagnosis and Management of Anemia of Chronic Disease. HEMATOLOGY 2000, Educational Book, American Society of Hematology ed., Washington, D.C., pp42-47, 2000
19. Loyevsky M, Gordeuk VR, Weiss G. Iron chelation therapy for malaria, in „Update in parasitic diseases“, Saunders, Philadelphia, pp 357-374; 2001
20. Weiss G, Königsrainer A. "LIMES- Leitlinien zum Infektionsmanagement in einem Schwerpunktkrankenhaus am beispiel des LKH Innsbruck-Internistische und chirurgische Aspekte", Diplomarbeit im Rahmen des Universitätslehrgangs „Public Health-Krankenhausmanagement“, Medizinische Fakultät und Sozial- und Wirtschaftswissenschaftliche Fakultät der Universität Innsbruck, Juli, 2001
21. Weiss G. „Iron acquisition by the reticuloendothelial system“ in „Molecular and cellular iron transport“, edited by Doug Templeton, M. Decker Inc., pp 467-88, 2002

22. Weiss G. Anemia of chronic diseases. Educational for 6<sup>th</sup> Meeting of the European Hematology Association. Frankfurt, June 2001
23. Brittenham GM, Weiss G, Brissot P, Laine F, Guillygomarch A, Guyader D, Moirand R, Deugnier Y. Clinical Consequences of New Insights in the Pathophysiology of Disorders of Iron and Heme Metabolism. **Hematology** (Am Soc Hematol Educ Program) 39-50; 2001
24. Schühmann K, G. Weiss. „Eisen“, in „Vitamine, Spurenelemente und Mineralstoffe“, HK Bieslaski, J Köhrle, K Schümänn, editors, Thieme Verlag, Stuttgart, 2003, pp 137-147
25. Weiss G: „Molekulare Regulation des Eisenstoffwechsels“ in „Vitamine, Spurenelemente und Mineralstoffe“, HK Bieslaski, J Köhrle, K Schümänn, editors, Thieme Verlag, Stuttgart, pp632-641, 2003
26. Weiss G. Iron and Immune Function- an ambivalent relationship“ in „Diet and Human Immune Function“ D. Hughes, ed., Humana Press, Totawa, NJ, 2004
27. Hastka J, Lehmann P, Weiss G. Anemia: Questions and Answers A- Practical Guide; Roche Diagnostics Educational Book, 2003
28. Weiss G, Pall G, Dierich MP: „Infektionen durch Bakterien und Pilze“: in Gerok et al. Lehrbuch der Inneren Medizin, Schattauer Verlag, 13. Auflage, 2006
29. Weiss G. Pneumocystis jiroveci. In: Mittermayer H, Allerberger F. Spektrum der Infektionskrankheiten, Spitta Verlag, Balingen ,D; pp 822-826, 2006
30. Weiss G. , Bonnati H. Infektionen bei Immunsuppression, In: MittermayerH, Allerberger F. Spektrum der Infektionskrankheiten, Spitta Verlag, Balingen ,D; pp1263-1278, 2006
31. Weiss G. Pathophysiology, diagnosis and treatment of the anaemia of chronic disease. Haematologica Suppl 1 , 2007, p9-17
32. Weiss G. Iron Metabolism in Inflammation and Iron Deficiency. In: Fuchs ,H ed. Iron Metabolism in Health and Disease, Research Signpost, 2008, pp 148-83
33. Weiss G, Bellmann-Weiler R. Immunglobulintherapie in der Sepsis in Burgmann H und Georgopoulos A. „Sepsis- ganz easy“, Universimed Verlag, Wien 2008
34. Fritsche G, Weiss G. Intraabdominelle Infektionen durch multiresistente Erreger in C. Wenisch et al „Infektionen durch multiresistente Bakterien-Aktuelle Konzepte zur Prävention und Therapie“. Uni.-Med-Verlag, Bremen, 2009, p54-59
35. Fritsche G, Weiss G. ZNS-Infektionen durch multiresistente Erreger. in C. Wenisch et al. „Infektionen durch multiresistente Bakterien-Aktuelle Konzepte zur Prävention und Therapie“. Uni.-Med-Verlag, Bremen, 2009, p54-59

36. Weiss G. Iron and the reticuloendothelial system , in “Iron Physiology and Pathophysiology in Humans” G. Anderson and G. McLaren, Eds. Humana Press, 211-233. 2011
37. Rehder D., Black RE, Bornhorst J, Dietert RR, DiRita VJ, Navaroo M, Perry RD, ink L, Skaar EP, Soares MCP, Thiele DJ, Wang F, Weiss G, Wessels I. Metals in Host- Microbe Interactions. The Host Perspective. in “Trace Elements and Infectious Diseases” Strüngmann Forum reports. JO Nriagu 6 E. Skaar, editors, The MIT Press, Cambridge, MA, pp 199-228, 2015
38. Weiss G. Impact of Metals on Immune Response and Tolerance, and Modulation of Metal Metabolism during Infection. in “Trace Elements and Infectious Diseases” Strüngmann Forum reports. JO Nriagu 6 E. Skaar, editors, The MIT Press, Cambridge, MA, pp 147-160, 2015
39. Nairz M, Weiss G. Infections Associated with Iron Administration. In “Essential Metals in Medicine” Peggy L. Carver (Guest Ed.), de Gruyter, Berlin/Boston 2019, pp 123-156
40. Hoffmann A, Valente De Souza L, Weiss G. Iron deficiency and Anemia associated with infections and inflammatory diseases. In “nutritional Anemia” by Karakochuk C.D. et al. , Humana Press, 2022, pp. 223-234.