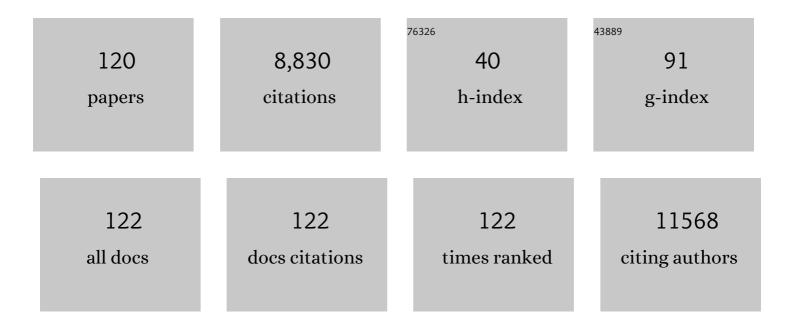
Martina U Muckenthaler

List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Two to Tango: Regulation of Mammalian Iron Metabolism. Cell, 2010, 142, 24-38. | 28.9 | 1,692 |
| 2 | A Red Carpet for Iron Metabolism. Cell, 2017, 168, 344-361. | 28.9 | 847 |
| 3 | Systemic Iron Homeostasis and the Iron-Responsive Element/Iron-Regulatory Protein (IRE/IRP) Regulatory Network. Annual Review of Nutrition, 2008, 28, 197-213. | 10.1 | 572 |
| 4 | Iron deficiency. Lancet, The, 2021, 397, 233-248. | 13.7 | 396 |
| 5 | Iron Toxicity in Diseases of Aging: Alzheimer's Disease, Parkinson's Disease and Atherosclerosis. Journal of Alzheimer's Disease, 2009, 16, 879-895. | 2.6 | 349 |
| 6 | Gain-of-function mutations in <i>interleukin-7 receptor-α</i> (<i>IL7R</i>) in childhood acute lymphoblastic leukemias. Journal of Experimental Medicine, 2011, 208, 901-908. | 8.5 | 307 |
| 7 | Regulatory defects in liver and intestine implicate abnormal hepcidin and Cybrd1 expression in mouse hemochromatosis. Nature Genetics, 2003, 34, 102-107. | 21.4 | 274 |
| 8 | Heme controls ferroportin1 (FPN1) transcription involving Bach1, Nrf2 and a MARE/ARE sequence motif at position -7007 of the FPN1 promoter. Haematologica, 2010, 95, 1261-1268. | 3.5 | 228 |
| 9 | The liver-specific microRNA miR-122 controls systemic iron homeostasis in mice. Journal of Clinical Investigation, 2011, 121, 1386-1396. | 8.2 | 221 |
| 10 | Hemopexin therapy reverts heme-induced proinflammatory phenotypic switching of macrophages in a mouse model of sickle cell disease. Blood, 2016, 127, 473-486. | 1.4 | 213 |
| 11 | Ex vivo drug response profiling detects recurrent sensitivity patterns in drug-resistant acute lymphoblastic leukemia. Blood, 2017, 129, e26-e37. | 1.4 | 195 |
| 12 | Atherosclerosis is aggravated by iron overload and ameliorated by dietary and pharmacological iron restriction. European Heart Journal, 2020, 41, 2681-2695. | 2.2 | 162 |
| 13 | Dicarbonyls and Advanced Glycation End-Products in the Development of Diabetic Complications and Targets for Intervention. International Journal of Molecular Sciences, 2017, 18, 984. | 4.1 | 152 |
| 14 | Out of Balance—Systemic Iron Homeostasis in Iron-Related Disorders. Nutrients, 2013, 5, 3034-3061. | 4.1 | 144 |
| 15 | A novel inflammatory pathway mediating rapid hepcidin-independent hypoferremia. Blood, 2015, 125, 2265-2275. | 1.4 | 144 |
| 16 | Hfe Acts in Hepatocytes to Prevent Hemochromatosis. Cell Metabolism, 2008, 7, 173-178. | 16.2 | 139 |
| 17 | Atherogenesis and iron: from epidemiology to cellular level. Frontiers in Pharmacology, 2014, 5, 94. | 3.5 | 121 |
| 18 | Iron Induces Anti-tumor Activity in Tumor-Associated Macrophages. Frontiers in Immunology, 2017, 8, 1479. | 4.8 | 121 |

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| # | Article | IF | CITATIONS |
|----|--|------|-----------|
| 19 | The activating STAT5B N642H mutation is a common abnormality in pediatric T-cell acute lymphoblastic leukemia and confers a higher risk of relapse. Haematologica, 2014, 99, e188-e192. | 3.5 | 114 |
| 20 | Poly(A)-tail-promoted translation in yeast: Implications for translational control. Rna, 1998, 4, 1321-1331. | 3.5 | 108 |
| 21 | Resistance of Ferroportin to Hepcidin Binding causes Exocrine Pancreatic Failure and Fatal Iron Overload. Cell Metabolism, 2014, 20, 359-367. | 16.2 | 98 |
| 22 | Adaptation of iron requirement to hypoxic conditions at high altitude. Journal of Applied Physiology, 2015, 119, 1432-1440. | 2.5 | 88 |
| 23 | In vivo nanoparticle imaging of innate immune cells can serve as a marker of disease severity in a model of multiple sclerosis. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 13227-13232. | 7.1 | 87 |
| 24 | miR-20a regulates expression of the iron exporter ferroportin in lung cancer. Journal of Molecular Medicine, 2016, 94, 347-359. | 3.9 | 83 |
| 25 | Fine Tuning of Hepcidin Expression by Positive and Negative Regulators. Cell Metabolism, 2008, 8, 1-3. | 16.2 | 81 |
| 26 | Dietary stearic acid regulates mitochondria in vivo in humans. Nature Communications, 2018, 9, 3129. | 12.8 | 80 |
| 27 | Pediatric T-cell lymphoblastic leukemia evolves into relapse by clonal selection, acquisition of mutations and promoter hypomethylation. Haematologica, 2015, 100, 1442-1450. | 3.5 | 65 |
| 28 | Five years of experience with biochemical cystic fibrosis newborn screening based on IRT/PAP in Germany. Pediatric Pulmonology, 2015, 50, 655-664. | 2.0 | 62 |
| 29 | Iron overload in adult Hfe-deficient mice independent of changes in the steady-state expression of the duodenal iron transporters DMT1 and Ireg1/ferroportin. Journal of Molecular Medicine, 2004, 82, 39-48. | 3.9 | 61 |
| 30 | The increase in hemoglobin concentration with altitude varies among human populations. Annals of the New York Academy of Sciences, 2019, 1450, 204-220. | 3.8 | 61 |
| 31 | Transferrin receptor 2 controls bone mass and pathological bone formation via BMP and Wnt signalling. Nature Metabolism, 2019, 1, 111-124. | 11.9 | 59 |
| 32 | Hypoferremia is Associated With Increased Hospitalization and Oxygen Demand in COVIDâ€19ÂPatients. HemaSphere, 2020, 4, e492. | 2.7 | 58 |
| 33 | Relationships and distinctions in iron-regulatory networks responding to interrelated signals. Blood, 2003, 101, 3690-3698. | 1.4 | 57 |
| 34 | Iron Homeostasis in the Lungs—A Balance between Health and Disease. Pharmaceuticals, 2019, 12, 5. | 3.8 | 54 |
| 35 | lron-regulatory protein-1 (IRP-1) is highly conserved in two invertebrate species. Characterization of IRP-1 homologues in Drosophila melanogaster and Caenorhabditis elegans. FEBS Journal, 1998, 254, 230-237. | 0.2 | 51 |
| 36 | Novel activating mutations lacking cysteine in type I cytokine receptors in acute lymphoblastic leukemia. Blood, 2014, 124, 106-110. | 1.4 | 50 |

| # | Article | IF | CITATIONS |
|----|--|------|-----------|
| 37 | Hemochromatosis classification: update and recommendations by the BIOIRON Society. Blood, 2022, 139, 3018-3029. | 1.4 | 50 |
| 38 | miR-148a regulates expression of the transferrin receptor 1 in hepatocellular carcinoma. Scientific Reports, 2019, 9, 1518. | 3.3 | 46 |
| 39 | Iron aggravates hepatic insulin resistance in the absence of inflammation in a novel db/db mouse model with iron overload. Molecular Metabolism, 2021, 51, 101235. | 6.5 | 46 |
| 40 | Disruption of the Hepcidin/Ferroportin Regulatory System Causes Pulmonary Iron Overload and Restrictive Lung Disease. EBioMedicine, 2017, 20, 230-239. | 6.1 | 45 |
| 41 | Hepcidin is regulated by promoter-associated histone acetylation and HDAC3. Nature Communications, 2017, 8, 403. | 12.8 | 45 |
| 42 | Molecular analysis of iron overload in β2-microglobulin-deficient mice. Blood Cells, Molecules, and Diseases, 2004, 33, 125-131. | 1.4 | 39 |
| 43 | Comparison of different IRT-PAP protocols to screen newborns for cystic fibrosis in three central European populations. Journal of Cystic Fibrosis, 2014, 13, 15-23. | 0.7 | 39 |
| 44 | Methylglyoxal and Advanced Glycation End Products in Patients with Diabetes – What We Know so Far and the Missing Links. Experimental and Clinical Endocrinology and Diabetes, 2019, 127, 497-504. | 1.2 | 39 |
| 45 | <scp>PDX</scp> models recapitulate the genetic and epigenetic landscape of pediatric T ell leukemia. EMBO Molecular Medicine, 2018, 10, . | 6.9 | 38 |
| 46 | Modelling Systemic Iron Regulation during Dietary Iron Overload and Acute Inflammation: Role of Hepcidin-Independent Mechanisms. PLoS Computational Biology, 2017, 13, e1005322. | 3.2 | 37 |
| 47 | Uncoupled iron homeostasis in type 2 diabetes mellitus. Journal of Molecular Medicine, 2017, 95, 1387-1398. | 3.9 | 35 |
| 48 | Regulation of iron metabolism in the sanguivore lamprey Lampetra fluviatilis . Molecular cloning of two ferritin subunits and two iron-regulatory proteins (IRP) reveals evolutionary conservation of the iron-regulatory element (IRE)/IRP regulatory system. FEBS Journal, 1998, 254, 223-229. | 0.2 | 32 |
| 49 | Mice with hepcidinâ€resistant ferroportin accumulate iron in the retina. FASEB Journal, 2016, 30, 813-823. | 0.5 | 32 |
| 50 | Lack of Haptoglobin Affects Iron Transport Across Duodenum by Modulating Ferroportin Expression. Gastroenterology, 2007, 133, 1261-1271.e3. | 1.3 | 31 |
| 51 | Iron accumulation in tumor-associated macrophages marks an improved overall survival in patients with lung adenocarcinoma. Scientific Reports, 2019, 9, 11326. | 3.3 | 31 |
| 52 | Maternal Iron Status in Pregnancy and Child Health Outcomes after Birth: A Systematic Review and Meta-Analysis. Nutrients, 2021, 13, 2221. | 4.1 | 30 |
| 53 | Transforming Growth Factor β1 (TGF-β1) Activates Hepcidin mRNA Expression in Hepatocytes. Journal of Biological Chemistry, 2016, 291, 13160-13174. | 3.4 | 29 |
| 54 | Significant prevalence of sickle cell disease in Southwest Germany: results from a birth cohort study indicate the necessity for newborn screening. Annals of Hematology, 2016, 95, 397-402. | 1.8 | 29 |

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| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 55 | Transferrin receptor 2 is a potential novel therapeutic target for Î ² -thalassemia: evidence from a murine model. Blood, 2018, 132, 2286-2297. | 1.4 | 28 |
| 56 | Vaccine efficacy and iron deficiency: an intertwined pair?. Lancet Haematology,the, 2021, 8, e666-e669. | 4.6 | 28 |
| 57 | Cdk6 contributes to cytoskeletal stability in erythroid cells. Haematologica, 2017, 102, 995-1005. | 3.5 | 24 |
| 58 | A Multi-Scale Model of Hepcidin Promoter Regulation Reveals Factors Controlling Systemic Iron Homeostasis. PLoS Computational Biology, 2014, 10, e1003421. | 3.2 | 22 |
| 59 | Vasculoâ€toxic and proâ€inflammatory action of unbound haemoglobin, haem and iron in transfusionâ€dependent patients with haemolytic anaemias. British Journal of Haematology, 2021, 193, 637-658. | 2.5 | 22 |
| 60 | Hepatocyte Nuclear Factor 4α Controls Iron Metabolism and Regulates Transferrin Receptor 2 in Mouse Liver. Journal of Biological Chemistry, 2015, 290, 30855-30865. | 3.4 | 20 |
| 61 | Newborn screening for severe combined immunodeficiency using a novel and simplified method to measure T-cell excision circles (TREC). Clinical Immunology, 2017, 175, 51-55. | 3.2 | 20 |
| 62 | Elevated hepcidin serum level in response to inflammatory and iron signals in exercising athletes is independent of moderate supplementation with vitamin C and E. Physiological Reports, 2015, 3, e12475. | 1.7 | 19 |
| 63 | High expression of miR-125b-2 and SNORD116 noncoding RNA clusters characterize ERG-related B cell precursor acute lymphoblastic leukemia. Oncotarget, 2017, 8, 42398-42413. | 1.8 | 19 |
| 64 | Mutating heme oxygenase-1 into a peroxidase causes a defect in bilirubin synthesis associated with microcytic anemia and severe hyperinflammation. Haematologica, 2016, 101, e436-e439. | 3.5 | 18 |
| 65 | ALK3 undergoes ligand-independent homodimerization and BMP-induced heterodimerization with ALK2. Free Radical Biology and Medicine, 2018, 129, 127-137. | 2.9 | 17 |
| 66 | Regulation of iron homeostasis: Lessons from mouse models. Molecular Aspects of Medicine, 2020, 75, 100872. | 6.4 | 16 |
| 67 | How mutant HFE causes hereditary hemochromatosis. Blood, 2014, 124, 1212-1213. | 1.4 | 15 |
| 68 | Hfe Deficiency Impairs Pulmonary Neutrophil Recruitment in Response to Inflammation. PLoS ONE, 2012, 7, e39363. | 2.5 | 14 |
| 69 | Hemoglobin concentration of young men at residential altitudes between 200 and 2000m mirrors Switzerland's topography. Blood, 2020, 135, 1066-1069. | 1.4 | 14 |
| 70 | Increased hepcidin levels in high-altitude pulmonary edema. Journal of Applied Physiology, 2015, 118, 292-298. | 2.5 | 13 |
| 71 | EHA Research Roadmap on Hemoglobinopathies and Thalassemia: An Update. HemaSphere, 2019, 3, e208. | 2.7 | 13 |
| 72 | Chromatin accessibility landscape of pediatric Tâ€lymphoblastic leukemia and human Tâ€cell precursors. EMBO Molecular Medicine, 2020, 12, e12104. | 6.9 | 13 |

| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 73 | Core Cross‣inked Polymeric Micelles for Specific Iron Delivery: Inducing Sterile Inflammation in Macrophages. Advanced Healthcare Materials, 2021, 10, e2100385. | 7.6 | 13 |
| 74 | Liver Sinusoidal Endothelial Cells Suppress Bone Morphogenetic Protein 2 Production in Response to TGFÎ ² Pathway Activation. Hepatology, 2021, 74, 2186-2200. | 7.3 | 13 |
| 75 | The Macrophage Iron Signature in Health and Disease. International Journal of Molecular Sciences, 2021, 22, 8457. | 4.1 | 13 |
| 76 | Orphan nuclear receptor SHP regulates iron metabolism through inhibition of BMP6-mediated hepcidin expression. Scientific Reports, 2016, 6, 34630. | 3.3 | 12 |
| 77 | Iron metabolism in high-altitude residents. Journal of Applied Physiology, 2020, 129, 920-925. | 2.5 | 12 |
| 78 | No changes in heme synthesis in human Friedreich´s ataxia erythroid progenitor cells. Gene, 2017, 621, 5-11. | 2.2 | 11 |
| 79 | Modulation of glutathione peroxidase activity by age-dependent carbonylation in glomeruli of diabetic mice. Journal of Diabetes and Its Complications, 2018, 32, 130-138. | 2.3 | 11 |
| 80 | Disruption of the hepcidin/ferroportin regulatory circuitry causes low axial bone mass in mice. Bone, 2020, 137, 115400. | 2.9 | 11 |
| 81 | Hepatic Smad7 overexpression causes severe iron overload in mice. Blood, 2018, 131, 581-585. | 1.4 | 10 |
| 82 | Cellular citrate levels establish a regulatory link between energy metabolism and the hepatic iron hormone hepcidin. Journal of Molecular Medicine, 2017, 95, 851-860. | 3.9 | 8 |
| 83 | Hemochromatosis proteins are dispensable for the acute hepcidin response to BMP2. Haematologica, 2020, 105, e493. | 3.5 | 8 |
| 84 | Maternal Iron Status in Early Pregnancy and Blood Pressure Throughout Pregnancy, Placental Hemodynamics, and the Risk of Gestational Hypertensive Disorders. Journal of Nutrition, 2022, 152, 525-534. | 2.9 | 8 |
| 85 | Final results of the southwest German pilot study on cystic fibrosis newborn screening – Evaluation of an IRT/PAP protocol with IRT-dependent safety net. Journal of Cystic Fibrosis, 2022, 21, 422-433. | 0.7 | 8 |
| 86 | Constitutional PIGA mutations cause a novel subtype of hemochromatosis in patients with neurologic dysfunction. Blood, 2022, 139, 1418-1422. | 1.4 | 8 |
| 87 | Maternal earlyâ€pregnancy ferritin and offspring neurodevelopment: A prospective cohort study from gestation to school age. Paediatric and Perinatal Epidemiology, 2022, 36, 425-434. | 1.7 | 8 |
| 88 | Macrophage-HFE controls iron metabolism and immune responses in aged mice. Haematologica, 2020, 106, 259-263. | 3.5 | 7 |
| 89 | The role of cellular iron deficiency in controlling iron export. Biochimica Et Biophysica Acta - General Subjects, 2021, 1865, 129829. | 2.4 | 7 |
| 90 | The EHA Research Roadmap: Anemias. HemaSphere, 2021, 5, e607. | 2.7 | 7 |

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| # | Article | IF | CITATIONS |
|-----|---|-----|-----------|
| 91 | NOTCH1 mutation, TP53 alteration and myeloid antigen expression predict outcome heterogeneity in children with first relapse of T-cell acute lymphoblastic leukemia. Haematologica, 2017, 102, e249-e252. | 3.5 | 6 |
| 92 | Iron-Related Parameters are Altered Between C57BL/6N and C57BL/6J Mus Musculus Wild-Type Substrains. HemaSphere, 2019, 3, e304. | 2.7 | 5 |
| 93 | Air–blood barrier thickening and alterations of alveolar epithelial type 2 cells in mouse lungs with disrupted hepcidin/ferroportin regulatory system. Histochemistry and Cell Biology, 2019, 151, 217-228. | 1.7 | 5 |
| 94 | Targeted Disruption of the Mouse Mitoferrin (Slc25A37) Mitochondrial Solute Carrier Results in Defective Primitive and Definitive Erythropoiesis Blood, 2006, 108, 265-265. | 1.4 | 5 |
| 95 | Cell-specific expression of <i>Hfe</i> determines the outcome of <i>Salmonella enterica</i> serovar Typhimurium infection in mice. Haematologica, 2021, 106, 0-0. | 3.5 | 4 |
| 96 | Pediatric T-ALL type-1 and type-2 relapses develop along distinct pathways of clonal evolution. Leukemia, 2022, 36, 1759-1768. | 7.2 | 4 |
| 97 | Intravenous Iron Promotes Low-Grade Inflammation in Anemic Patients By Triggering Macrophage Activation. Blood, 2019, 134, 957-957. | 1.4 | 3 |
| 98 | SLN124, a GalNAc Conjugated 19-Mer Double-Stranded SiRNA Reduces Iron and Increases Hepcidin Levels of Healthy Volunteers in a Phase 1 Clinical Study. Blood, 2021, 138, 2009-2009. | 1.4 | 3 |
| 99 | Iron- and erythropoietin-resistant anemia in a spontaneous breast cancer mouse model. Haematologica, 2022, 107, 2454-2465. | 3.5 | 3 |
| 100 | Hfe Is Highly Expressed in Liver Sinusoidal Endothelial Cells But Is Not Needed to Maintain Systemic Iron Homeostasis In Vivo. HemaSphere, 2022, 6, e667. | 2.7 | 3 |
| 101 | Ethnic differences in adverse iron status in early pregnancy: a cross-sectional population-based study. Journal of Nutritional Science, 2022, 11, . | 1.9 | 3 |
| 102 | Mechanismen der Translationskontrolle in Eukaryonten. , 2003, , 152-180. | | 2 |
| 103 | Low-Iron Diet and Chelation Therapy Rescue Severe Atherosclerosis Associated with High Circulating Iron Levels. Blood, 2016, 128, 199-199. | 1.4 | 2 |
| 104 | The Polycistronic miRNA Cluster miR-17-92 Is Over-Expressed in Early Phase Chronic Myeloid Leukemia (CML) CD34+ Cells Blood, 2006, 108, 741-741. | 1.4 | 1 |
| 105 | Hfe Acts in Hepatocytes To Prevent Hemochromatosis Blood, 2007, 110, 703-703. | 1.4 | 1 |
| 106 | Sensing of Liver Iron Content Requires Cell-Cell Communication between Hepatocytes and Liver Sinusoidal Endothelial Cells. Blood, 2019, 134, 432-432. | 1.4 | 1 |
| 107 | Dissecting the Mechanisms of Hepcidin and BMP-SMAD Pathway Regulation By FKBP12. Blood, 2021, 138, 2008-2008. | 1.4 | 1 |
| 108 | Iron Deficiency Caused by Intestinal Iron Loss—Novel Candidate Genes for Severe Anemia. Genes, 2021, 12, 1869. | 2.4 | 1 |

| # | Article | IF | CITATIONS |
|-----|---|-----|-----------|
| 109 | Eliezer Rachmilewitz (1935–2017). HemaSphere, 2018, 2, e21. | 2.7 | 0 |
| 110 | Iron deficiency anemia. HemaSphere, 2019, 3, 99. | 2.7 | 0 |
| 111 | Mild Attenuation of the Pulmonary Inflammatory Response in a Mouse Model of Hereditary Hemochromatosis Type 4. Frontiers in Physiology, 2020, 11, 589351. | 2.8 | 0 |
| 112 | The Molecular Signature of Iron Metabolism in Polycythaemia Mice Blood, 2005, 106, 3579-3579. | 1.4 | 0 |
| 113 | The Early Treatment Response of the Clinically Challenging Group of Childhood T-ALL without NOTCH1 Mutations Is Signified by a Specific mRNA Gene Profile Blood, 2007, 110, 2789-2789. | 1.4 | 0 |
| 114 | A High Through-Put Screen Identifies MCP-1 (CCL2) As a Novel Regulator of Iron Homeostasis and a Modifier of Hereditary Hemochromatosis Disease Severity. Blood, 2011, 118, 685-685. | 1.4 | 0 |
| 115 | An Inflammatory Pathway Mediating Rapid Hepcidin-Independent Hypoferremia. Blood, 2014, 124, 214-214. | 1.4 | 0 |
| 116 | Gene Panel Sequencing of Primary and Relapsed Pediatric T-ALL Shows That Relapse-Specific Mutations Are Diverse and Mostly Non-Recurrent. Blood, 2015, 126, 1428-1428. | 1.4 | 0 |
| 117 | The Heme Scavenger Hemopexin Reverts Heme-Driven Pro-Inflammatory Phenotypic Switching of Macrophages in Sickle Cell Disease. Blood, 2015, 126, 2205-2205. | 1.4 | 0 |
| 118 | Exploring the Mechanisms of Thalassemic Erythropoiesis Improvement Caused By Bone Marrow Tfr2 Deletion. Blood, 2018, 132, 3624-3624. | 1.4 | 0 |
| 119 | TP53 and KRAS Variants at Initial Diagnosis Identify an Ultra-High Risk Group of Pediatric T-Lymphoblastic Leukemia (T-ALL). Blood, 2021, 138, 1315-1315. | 1.4 | 0 |
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120 Translational Control in Eukaryotes. , 2005, , 1904-1909.

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