

Curriculum Vitae

Martina Muckenthaler Professor, Dr. phil. nat.
d.o.b. November 22nd 1964, in Straubing, Germany

University Education

1990-1994 Doctoral thesis (Dr. phil. nat.) at the University of Oxford, Biochemistry Department and Johann Wolfgang von Goethe University of Frankfurt
1986-1990 Technical University of Munich (Diplom Biology) Master thesis at the London Hospital Medical College, London, Great Britain
1984-1986 University of Regensburg (Vordiplom Biology)

Scientific Career

Since 2024 Member of the Academia Europaea
Since 2020 Elected member of the National Academy of Sciences (Leopoldina)
Since 2020 Fellow at the Marsilius-Kolleg of the Heidelberg University
2019-2023 President of International Biolron Society (IBIS)
2022-2023 Chair of Nomination Committee of the European Hematology Association (EHA)
2021-2023 Member of Research Committee European Hematology Association (EHA)
2020-2023 Member of the scientific advisory board of the Hemochromatosis-Association Germany e.V. (HVD)
2018 Chair Scientific Program Committee of the European Hematology Association
2017 Chair Scientific Committee, American Society of Hematology, 'Iron and Heme'
2015-2018 Elected Executive Board Member of the European Hematology Association
2014-2017 Chair of the Fellowship and Grant Committee (EHA)
2013-2017 Scientific Committee, American Society of Hematology (ASH)
2012-2015 Elected Board Member of the European Hematology Association (EHA)
2009-2013 Elected Director of the International Biolron Society (IBIS)
2006 - Principle investigator at Molecular Medicine Partnership Unit (EMBL and University Medical Center Heidelberg)
2004 - Professor of Molecular Medicine, University Medical Center Heidelberg, Department of Paediatric Oncology, Hematology, Immunology and Pneumology
2002-2003 Staff Scientist, EMBL, Heidelberg
1994-2001 Postdoctoral fellow, EMBL, Heidelberg

Awards and Honors

2024 Member of the Academia Europaea
2024 Organizer of EHA Conference "Molecular vulnerabilities and metabolism in hematological disorders".
2020 Plenary speaker European Hematology Association (EHA) 2020
Since 2020 Elected member of the National Academy of Sciences (Leopoldina)
2020-2021 Fellow at the Marsilius-Kolleg of the Heidelberg University
2019-2023 President of International Biolron Society (IBIS)
2018 Chair Scientific program Committee of the (EHA)
2017 Chair Scientific Committee of the American Society of Hematology (ASH), 'Iron and Heme'
2016-2020 Board member of the German Society for Biochemistry and Molecular Biology (GBM)
2015 "Reeves Prize" Hypoxia Symposium, Lake Louise, Canada
2015-2018 Elected Executive Board Member of the European Hematology Association
2014-2017 Chair of the Fellowship and Grant Committee of the European Hematology Association
2013-2017 Scientific Committee member of the American Society of Hematology
2012-2015 Elected Board Member of the European Hematology Association
2009-2013 Elected Director of the International Biolron Society
2007 Margit Krikker Award of the International Biolron Society

Citation Record

Total citations: 33,846; h-index:88; h-index since 2021: 54

Top-10 selected Publications

1. Oriana Marques, Natalie K. Horvat, Laura Zechner, Silvia Colucci, Richard Sparla, Stefan Zimmermann, Christopher J. Neufeldt, Sandro Altamura, Ruiyue Qiu, Katja Müdder, Günter Weiss, Matthias W. Hentze, **Martina U. Muckenthaler**, NFκB represses Ferroportin in macrophages via HDACs, *Blood*. 2025. DOI: 10.xxxx/blood.2024xxxxxx
2. Natalie K. Horvat, Sara Chocarro, Oriana Marques, Tobias A. Bauer, Ruiyue Qiu, Alberto Diaz-Jimenez, Barbara Helm, Yuanyuan Chen, Stefan Sawall, Richard Sparla, Lu Su, Ursula Klingmüller, Matthias Barz, Matthias W. Hentze, Rocío Sotillo, **Martina U. Muckenthaler**. Superparamagnetic Iron Oxide Nanoparticles reprogram the tumor microenvironment and reduce lung cancer regrowth after crizotinib treatment *ACS Nano*. 2024 Apr 16. doi: 10.1021/acsnano.3c08335
3. Galy B, Conrad M, **Muckenthaler MU**. Mechanisms controlling cellular and systemic iron homeostasis, *Nat Rev Mol Cell Biol*. 2024 Feb;25(2):133-155. doi: 10.1038/s41580-023-00648-1. Epub 2023 Oct 2.
4. Colucci S, Altamura S, Marques O, Dropmann A, Horvat NK, Müdder K, Hammad S, Dooley S, **Muckenthaler MU**. Liver sinusoidal endothelial cells suppress BMP2 production in response to TGFβ pathway activation. *Hepatology*. 2021 Oct;74(4):2186-2200. doi: 10.1002/hep.31900. Epub 2021 Aug 24
5. Pasricha S-R, Tye-Din J, **Muckenthaler MU**, Swinkels D. Clinical Seminar: Iron Deficiency. *The Lancet*. 2021 Jan 16;397(10270):233-248. doi: 10.1016/S0140-6736(20)32594-0.
6. Vinchi F, Porto G, Simmelbauer A, Altamura S, ..., Sparla R, Hentze MW, **Muckenthaler MU**. Atherosclerosis is aggravated by iron overload and ameliorated by dietary and pharmacological iron restriction. *Eur Heart J*. 2020.
7. Altamura S, Kessler R, Gröne H-J, Gretz N, Hentze MW, Galy B, **Muckenthaler MU**. Resistance of ferroportin to hepcidin binding causes exocrine pancreatic failure and fatal iron overload. *Cell Metab*. 2014;20(2):359–67.
8. Castoldi M, Vujic Spasic M, Altamura S, S, Hentze MW, **Muckenthaler MU**. The liver-specific microRNA miR-122 controls systemic iron homeostasis in mice. *J Clin Invest*. 2011;121(4):1386–96.
9. Roy CN, Custodio AO, ..., **Muckenthaler MU**. An Hfe-dependent pathway mediates hyposideremia in response to lipopolysaccharide-induced inflammation in mice. *Nat Genet*. 2004;36(5):481–5.
10. **Muckenthaler M**, Roy CN, ..., Andrews NC, Hentze MW. Regulatory defects in liver and intestine implicate abnormal hepcidin and *Cybrd1* expression in mouse hemochromatosis. *Nat Genet*. 2003;34(1):102–7.