

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 2006 Principle investigator; Molecular Medicine Partnership Unit (EMBL and University Medical Center Heidelberg)
Since 2004 Professor of Molecular Medicine, University Medical Center Heidelberg
2002-2003 Staff Scientist, EMBL, Heidelberg
1994-2001 Postdoctoral fellow, EMBL, Heidelberg

Career related activities

Steering committee member of the Translational Lung Research Center Heidelberg
Elected board member of the Medical Faculty of the Heidelberg University
Member of the research commission of the Medical Faculty Heidelberg
Chairwoman of the Physician/Medical Scientist-, Olympia Morata- and Rahel Goitein--Straus-Program of the Medical Faculty (enables young MDs to receive top research training)
Chair of "Zweitstudium Medizin"

Awards and Honors

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
2019-2022 President of International Biolron Society (IBIS)
2018 Chair Scientific program Committee of the (EHA)
Since 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
2013-2016 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: 22.877; h-index:72; h-index since 2017: 48 (Google Scholar August 2nd, 2022)

Top-10 selected Publications

Pasricha S-R, Tye-Din J, **Muckenthaler MU**, Swinkels D. Clinical Seminar: Iron Deficiency. *The Lancet*. 2021 Jan 16;397(10270):233-248.

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 TGF β pathway activation. *Hepatology*. 2021 Oct;74(4):2186-2200.

Vinchi F, Porto G, Simmelbauer A, Altamura S, Passos ST, Garbowski M, Silva AMN, Spaich S, Seide SE, Sparla R, Hentze MW, **Muckenthaler MU**. Atherosclerosis is aggravated by iron overload and ameliorated by dietary and pharmacological iron restriction. *Eur Heart J*. 2020 Jul 21;41(28):2681-2695.

Muckenthaler MU, Rivella S, Hentze MW, Galy B. A Red Carpet for Iron Metabolism. *Cell*. 2017;168(3):344–61.

Vinchi F, Costa da Silva M, Ingoglia G, Petrillo S, Brinkman N, Zuercher A, Cerwenka A, Tolosano E, **Muckenthaler MU**. Hemopexin therapy reverts heme-induced proinflammatory phenotypic switching of macrophages in a mouse model of sickle cell disease. *Blood*. 2016;127(4):473–86.

Guida C, Altamura S, Klein FA, Galy B, Boutros M, Ulmer AJ, Hentze MW, **Muckenthaler MU**. A novel inflammatory pathway mediating rapid hepcidin-independent hypoferremia. *Blood*. 2015;125(14):2265–75.

Mleczko-Sanecka K, Roche F, da Silva AR, Call D, d'Alessio F, Ragab A, Lapinski PE, Ummanni R, Korf U, Oakes C, Damm G, D'Alessandro LA, Klingmüller U, King PD, Boutros M, Hentze MW, **Muckenthaler MU**. Unbiased RNAi screen for hepcidin regulators links hepcidin suppression to proliferative Ras/RAF and nutrient-dependent mTOR signaling. *Blood*. 2014;123(10):1574–85.

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.

Castoldi M, Vujic Spasic M, Altamura S, Elmén J, Lindow M, Kiss J, Stolte J, Sparla R, D'Alessandro LA, Klingmüller U, Fleming RE, Longerich T, Gröne HJ, Benes V, Kauppinen 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.

Vujić Spasić M, Kiss J, Herrmann T, Galy B, Martinache S, Stolte J, Gröne H-J, Stremmel W, Hentze MW, **Muckenthaler MU**. Hfe acts in hepatocytes to prevent hemochromatosis. *Cell Metab*. 2008;7(2):173–8.