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## Curriculum Vitae Prof. Dr. Matthias W. Hentze

**Name:** Matthias W. Hentze (Prof. Dr. med., Dr. h. c., ML, MAE, FAA)

**Position:** Director, European Molecular Biology Laboratory (EMBL)

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### Academic and Professional Career

- since 2013 Director, European Molecular Biology Laboratory (EMBL)
- since 2005 Associate Director, European Molecular Biology Laboratory (EMBL)
- since 2005 Professor (apl.), Medical Faculty, University of Heidelberg (Ruprecht-Karls-Universität)
- since 2002 Co-Director "Molecular Medicine Partnership Unit", University of Heidelberg / EMBL
- 2001 - 2005 Unit Coordinator "Training, Partnership & Endowment", EMBL
- since 1998 Senior Scientist, EMBL
- 1996 - 2005 Dean of Graduate Studies, EMBL
- 1990 Habilitation in "Medical Molecular Biology", Faculty for Theoretical Medicine, University of Heidelberg
- since 1989 Group Leader, EMBL
- 1987 - 1989 Visiting Associate, National Institute of Child Health and Human Development, NIH, Bethesda, MD 20892, USA
- 1985 - 1987 Guest Researcher, National Institute of Child Health and Human Development, NIH, Bethesda, MD 20892, USA
- 1985 Attending Physician, Internal Medicine, St. Vinzenz Hospital, Rheda-Wiedenbrück

- 1984 Promotion, Institute of Physiological Chemistry, University of Münster (Westfälische Wilhelms-Universität Münster), "Influence of amino acid analogs on maturation, transport and stability of cathepsin D in human skin fibroblasts"
- 1984 3rd medical examination and licensure as a doctor ("Approbation als Arzt")
- 1983 - 1984 Glasgow Medical School, Cambridge Medical School und Oxford Medical School, UK
- 1982 - 1983 Medical Faculty and Institute of Physiological Chemistry, University of Münster
- 1981 - 1982 Southampton Medical School, UK
- 1978 - 1981 Medical Faculty, University of Münster

### **Scientific Advisory Boards/Panels (only currently active)**

- since 2014 Member of the Scientific Advisory Board of the Istituto Nazionale di Genetica Molecolare (INGM), Milano, Italy
- since 2014 Member of the Selection Committee, Heinz Maier-Leibnitz-Prize, German Research Foundation (DFG)
- since 2013 Member of the Board of Trustees of the Max Planck Institute for Astronomy, Heidelberg
- since 2013 Member of the Scientific Advisory Board, Cold Spring Harbor Conferences Asia, Suzhou, China
- since 2011 Member of the Scientific Advisory Board, Centenary Institute, Sydney, Australia
- since 2006 Member of the Scientific Advisory Board, Centro de Biología Molecular "Severo Ochoa" (CBMSO), Madrid, Spain

### **Projects**

- 2011 European Research Council Advanced Grant "Exploring the interface between cell metabolism and gene regulation: from mRNA interactomes to 'REM networks'"; (ERC-2011-ADG\_20110310)
- 2010 Bundesministerium für Bildung und Forschung (BMBF), Systembiologie Förderinitiative Virtual Liver (Projekt 0315740), Projekt: "Generation and analysis of mouse lines with IRP hyperactivity and deficiency"
- 2006 EEC FP6 "EuroIron 1" (LSHM-CT-2006-037296), Projekt: "Systemic regulation of iron metabolism by the IRE/IRP system"
- 2004 Deutsche Forschungsgemeinschaft (Ku 563/9-1), Tri-National Collaborative Project with Israeli and Palestine Partners, Projekt: "Genetic modifiers in  $\beta$ -thalassemia"

- 2004 Bundesministerium für Bildung und Forschung (BMBF), Nationales Genomforschungsnetz-2, CancerNet (WP4-SP4; FKZ 01GS0450), Projekt: "Systematic analysis of microRNA expression in cancer development and metastasis"
- 1999 Human Frontier Science Program Organization [HFSP] (no. RG0038/1999-M), „Structural and functional basis of mRNA end-to-end coupling in the control of mRNA translation"
- 1995 European Union Framework IV, Biotechnology (no. 95 0045), "Optimized Protein Synthesis"

### **Honours and Awarded Memberships**

- 2018 Elected International Honorary Member, American Academy of Arts and Sciences
- 2017 Doctor of Science, honoris causa, Australia National University, Canberra, Australia
- 2016 Heidelberg Molecular Life Sciences Investigator Award
- 2016 Elected Member, Academia Europaea (MAE)
- 2016 Elected Corresponding Member (FAA), Australian Academy of Science
- 2015 Elected Director, The RNA Society, (2016-2019)
- 2015 The Feodor Lynen Medal and Lecture, German Society for Biochemistry and Molecular Biology (GBM)
- 2011 European Research Council (ERC) Advanced Grant
- 2010 Honorary Faculty Member, Victor Chang Cardiac Research Institute, Sydney, Australia
- 2007 Lautenschläger Research Prize of the University of Heidelberg
- 2006 Elected Member German Academy of Sciences Leopoldina
- 2003 Elected Director of the International Biolron Society (IBIS), (until 2007)
- 2003 Elected Member of the European Academy of Sciences
- 2000 Gottfried Wilhelm Leibniz Prize of the German Research Foundation (DFG)
- 1997 Elected member of European Molecular Biology Organization (EMBO)
- 1985 German Research Foundation (DFG): Postdoctoral fellowship

### **Special and Named Lectures (Selection)**

- 2018 Keynote Speaker, RiboClub 2018, Cheribourg, Quebec, Canada
- 2017 Opening Lecture, Annual Confer. of the German Genetics Society, Bochum, Germany

- 2016 The Mark Nickerson Memorial Lecture, McGill University, Montreal, Canada
- 2016 Keynote Speaker, British Society for Proteome Research, Glasgow, UK
- 2016 Keynote Speaker, Ospedale San Raffaele Milano Annual Retreat, Baveno, Italy
- 2015 Keynote Speaker, AARS (10th Internat. Conference on Aminoacyl-tRNA Synthetases), Barcelona, Spain
- 2015 Weizmann Institute Life Science Colloquium, Weizmann Institute of Science, Rehovot, Israel
- 2015 Distinguished Speaker Seminar, Max-Delbrück Center for Molecular Medicine, Berlin, Germany
- 2015 The Kidson Lecture, QIMR Medical Research Institute, Brisbane, Australia
- 2015 The MIT Biology Colloquium, Massachusetts Institute of Technology, Cambridge, USA
- 2014 The Lennart Philipson Memorial Lecture, University of Uppsala, Sweden
- 2014 The Cesar Milstein Lecture, Instituto Leloir, Buenos Aires, Argentina
- 2014 Opening Lecture, Translation UK 2014, Leicester, United Kingdom
- 2012 25th Foundation Day lecturer, CCMB, Hyderabad, India
- 2012 Special Seminar, IGCMB, Strasbourg, France
- 2011 Keynote Lecture, EMBO Meeting “Intracellular RNA Localization & Localized Translation”, Il Ciocco, Italy
- 2011 Invited Plenary Lecture, 16th Annual Meeting of the RNA Society, Kyoto, Japan
- 2011 The Kjeldgaard Lecture, University of Aarhus, Aarhus, Denmark
- 2011 The President’s Lecture, Sanford-Burnham Medical Research Institute, San Diego, USA
- 2010 The Princesses’ Lecture, Victor Chang Cardiac Research Institute, Sydney, Australia
- 2010 The EMBO Lecture, 4 th RNA Stability Meeting, Montreal, Canada
- 2010 The EMBO Lecture, 31st Lorne Genome Conference, Lorne, Australia
- 2010 Distinguished Lecture, Lady Davis Institute for Medical Research, McGill University, Montreal
- 2009 The XXXII Meeting of the Chilean Society for Molecular Biology and Biochemistry, Keynote Speaker, Termas de Chillan, Chile
- 2008 The AARS (Internat. Conference on Aminoacyl-tRNA Synthetases) Plenary Lecture, Lac Annecy, France
- 2008 The Stephen I. Morse Memorial Lecture, State University of New York at Downstate Medical Center, New York, USA

- 2008 Keystone Symposium “Translational Regulatory Mechanisms”, Coeur d’Alene, USA, Keynote Speaker
- 2006 Translational Control and Non-Coding RNA Meeting, Nove Hradky, Czech Republic, Keynote Speaker
- 2006 17th Annual Meeting of the German, Austrian and Swiss Society for Human Genetics, Keynote Speaker
- 2005 The EMBO Lecture, 1st International Biolron Congress, Prague, Czech Republic
- 2004 Greek Society for Biochemistry and Molecular Biology, Keynote Speaker
- 2003 Research Fellows’ Visiting Professor, Lerner Research Institute of the Cleveland Clinic Foundation
- 2002 CBM Madrid Severo Ochoa Lecture ‘Avances en Biología Molecular’
- 2001 Rockefeller University, Student and Postdoc Sponsored Seminar
- 2000 Erasmus Lecture on Genetics, Erasmus University Rotterdam
- 2000 Israel Society for Biochemistry and Molecular Biology, Keynote Speaker

**Editorial Boards (only currently active)**

- since 2009 International Advisory Board, Wiley Interdisciplinary Reviews RNA
- since 2008 Senior Editor, EMBO Molecular Medicine
- since 2004 Editorial Board, Molecular Cell
- since 2003 Editorial Board, BioMed Central Molecular Biology
- since 1997 Editorial Board, RNA
- since 1996 Editorial Board, trends in Biochemical Sciences [TiBS]

**International Scientific Meetings (Co-)Organized**

- 2019 8th Congress of the International Biolron Society  
Jointly organized with M. Muckenthaler, Heidelberg, May 05-10, 2019
- 2019 “Protein Synthesis and Translational Control”, 8th EMBO Conference  
Jointly organized with F. Gebauer, W. Gilbert and C. Spahn, Heidelberg, September 04-08, 2019
- 2017 “Protein Synthesis and Translational Control”, 7th EMBO Conference  
Jointly organized with J.Cate, F. Gebauer, and R. Green, Heidelberg, September 06-10, 2017

- 2015 “Protein Synthesis and Translational Control”, 6th EMBO Conference  
Jointly organized with N. Ban, F. Gebauer, and L. Valasek, Heidelberg, September 09-13, 2015
- 2015 “RNA ‘15”, 20th Annual Meeting of the RNA Society  
Jointly organized with D. Brow, A. Pasquinelli and A. Pyle, Madison, May 26-31, 2015
- 2013 “Protein Synthesis and Translational Control”, 5th EMBO Conference  
Jointly organized with F. Gebauer, A. Hinnebusch and M. Yusupov, Heidelberg, September 08-12, 2013
- 2012 “Quality Control – From molecules to organelles”, EMBO/EMBL Symposium  
Jointly organized with B. Bukau and J. Diffley, Heidelberg, September 19-22, 2012
- 2011 “Protein Synthesis and Translational Control”, 4th EMBO Conference  
Jointly organized with A. Ephrussi, R. Green and J. Lorsch, Heidelberg, September 07-11, 2011
- 2011 “From RNA to protein and beyond”, 4th Berlin Summer Meeting  
Jointly organized with R. Bonneau, A. Ephrussi, S. Kempa, N. Rajewsky and M. Selbach, Berlin, June 23-25, 2011
- 2010 “The complex life of mRNA: from synthesis to decay”, EMBL Conference  
Jointly organized with U. Fischer and E. Wahle, Heidelberg, March 18-20, 2010
- 2009 “Protein Synthesis and Translational Control”, 3rd EMBO Conference  
Jointly organized with N. Sonenberg, M. Rodnina and A. Ephrussi, Heidelberg, September 09-13, 2009
- 2007 “Protein Synthesis and Translational Control”, 2nd EMBO Conference  
Jointly organized with T. Dever, J. Doudna and A. Ephrussi, Heidelberg, September 12-16, 2007
- 2005 “Protein Synthesis and Translational Control”, 1st EMBO Conference  
Jointly organized with A. Ephrussi, A. Hinnebusch and V. Ramakrishnan, Heidelberg, September 14-18, 2005
- 2004 “Functional Genomics; Exploring the edges of omics”, EMBL/EMBO Symposium  
Jointly organized with E. Furlong, N. Barkai, F. Holstege, M. Vidal, L. Steinmetz, I. Mattaj, P. Bork, C. Mueller, M. Wilmanns, EMBL, October 16-19, 2004
- 2002 “Functional Genomics; The Future of Biology”, EMBL/EMBO Symposium  
Jointly organized with I. Mattaj, W. Ansorge, P. Bork, C. Mueller, N. Rosenthal, L. Serrano and M. Wilmanns. EMBL, October 13-16, 2002
- 2002 “Translational Control”, Cold Spring Harbor Laboratory  
Jointly organized with A. Hinnebusch and R. Schneider, CSH, September 10-15, 2002

- 2001 “RNA ‘01”, 6th Annual Meeting of the RNA Society  
Jointly organized with B. Chabot, J. Williamson and S. Wolin, Banff, May 29 - June 03, 2001
- 2000 First EMBL Minisymposium in Molecular Medicine “Genetic Diseases”  
Jointly organized with R. Klein and J. Wittbrodt, Heidelberg, June 08-09, 2000
- 1999 NATO/EMBO/FEBS International Summer School on “Structure and Function of Macromolecular Complexes”  
Jointly organized with E. Gonos, J.W.B. Hershey, L. Kisselev and J.E.G. McCarthy, Spetses, August 29 - September 09, 1999
- 1999 “RNA ‘99”, 4th Annual Meeting of the RNA Society  
Jointly organized with J. Doudna, A. Krämer and D. Tollervey, Edinburgh, June 23-27, 1999
- 1999 Juan March Foundation Workshop “Regulation of Protein Synthesis in Eukaryotes”  
Jointly organized with C. de Haro and N. Sonenberg, Madrid, March 08-10, 1999

### **Major Research Interests**

For many years, his research focused on the understanding of posttranscriptional gene regulation, especially the control of protein synthesis. His work has also provided fundamental insights into the molecular mechanisms governing iron homeostasis and diseases of altered iron metabolism.