

BIOGRAPHICAL SKETCH

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NAME Remmer, Henriette Anna		POSITION TITLE Director, Protein Structure Facility Research Investigator, Dept. of Biological Chemistry	
eRA COMMONS USER NAME (credential, e.g., agency login) hremmer			
EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)			
INSTITUTION AND LOCATION	DEGREE (if applicable)	YEAR(s)	FIELD OF STUDY
University of Tuebingen, Tuebingen, Germany	Pre-masters exams (B.S.)	1987	Biochemistry
University of Tuebingen, Tuebingen, Germany	Diploma (M.S.)	1991	Biochemistry
University of Tuebingen, Tuebingen, Germany	Doctorate/Ph.D.	1994	Biochemistry/Peptide and Protein Chemistry
University of Minnesota, Minneapolis, MN	Postdoctoral Training	1996-1998	Biomedical Engineering/Peptide Chemistry

A. Positions and Honors.**Positions and Employment**

04/1995-09/1995 Postdoctoral Scientist, Bachem Feinchemikalien AG, Bubendorf, Switzerland
 12/1995-04/1996 Scientist Technician, Roche Pharmaceuticals, Mannheim, Germany
 06/1996-01/1998 Postdoctoral Associate, University of Minnesota, Minneapolis, MN, Advisor: G.B. Fields
 02/1998-10/2001 Director of Protein Services, Biotechnology Center, University of Illinois, Urbana, IL
 11/2001-present Director, Protein Structure Core Facility, University of Michigan, Ann Arbor, MI
 Research Investigator, Dept. of Biological Chemistry, University of Michigan, Ann Arbor, MI

Professional Memberships

1992-present European Peptide Society
 1995-present Society of German Chemists (GDCh)
 1996-present American Peptide Society
 1998-present Association for Biomolecular Resource Facilities (ABRF)
 2000-present American Society for Mass Spectrometry

Honors

05/1997-01/1998 Research Stipend from the German Research Society (DFG)
 05/1999-03/2001 Appointment as member of the "Peptide Synthesis Research Group" at the Association of Biomolecular Resource Facilities (ABRF).
 03/2001-03/2005 Appointment as chair of the "Peptide Standards Project Committee", a project committee of the Association of Biomolecular Resource Facilities (ABRF). This committee developed certified peptide standards in collaboration with the National Institute of Standards and Technology (NIST).
 2002 Equipment Competition Award (\$62,741) from the Biomedical Research Council of The University of Michigan
 2003 Equipment Competition Award (\$50,000) from the Biomedical Research Council of The University of Michigan

- 2004 Shared Research Facilities Equipment Award (\$100,000) from the Office of Vice President for Research at the University of Michigan
- 2007 Shared Research Facilities Equipment Award (\$62,880) from the Office of Vice President for Research at the University of Michigan

B. Selected peer-reviewed publications (in chronological order).

MP. Mendez, SB. Morris, S. Wicoxen, M. Du, YK. Monroy, H. Remmer, H. Murphy, PJ. Christensen. R. Paine III.

Disparate Mechanisms of sICAM-1 production in the peripheral lung: contrast between alveolar epithelial cells and pulmonary microvascular endothelial cells. *Am. J. Lung Cell Mol. Physiol.* 2008, 294, L807-L814. doi: 10.1152/ajplung.00389.2007

IJ Goldstein, HC Winter, L Confer, JT Adamson, K Hakansson, HA Remmer
A new α -galactosyl-binding protein from mushroom *Lyophyllum decastes*. *Arch. Biochem. Biophys.* 467 (2007), 268-274. doi: 10.1016/j.abb.2007.08.017.

Z.Zhang, H.A. Remmer, D.D.Thomas and C.B. Karim
Backbone Dynamics Determined by Electron Paramagnetic Resonance to Optimize Solid Phase Peptide Synthesis of TOAC-labeled Phospholamban. *Biopolymers Peptide Science* 2006, 88 (1) p.29-35. doi: 10.1002/bip.20618.

H.A. Remmer, N.P. Ambulos, L.F. Bonewald, J.D. Dougherty, E. Eisenstein, E. Fowler, J. Johnson, A. Khatri, M.O. Lively, N.M. Ritter, and S. Weintraub

Synthetic Peptides as Certified Analytical Standards, in *Peptide Revolution: Genomics, Proteomics and Therapeutics* (Michael Chorev and Tomi K. Sawyer, eds), Proceedings of the 18th American Peptide Symposium, American Peptide Society (2003), Kluwer Academic Publishers, 2004, p. 65-66.

M.M.Rosenblatt, D.L. Huffman, X. Wang, H.A.Remmer & K.S. Suslick
"Cyclic and Hairpin Peptide Complexes of Heme" *J. Am. Chem. Soc.* 124, 12394-12395 (2002)

K. F.Medzihradzsky, N. P. Ambulos, A. Khatri, G. Osapay, H.A. Remmer, A. Somogyi, and S. A. Kates.
Mass spectrometry analysis for the determination of side reactions for cyclic peptides prepared from an Fmoc/tBu/DMAb Protecting Group Strategy. *Lett. Peptide Sci* 8, 1-12 (2002).

A. Khatri, N.P. Amboulos, S.A. Kates, K.F. Medzihradzsky, G. Ösapay, H.A. Remmer and A. Sompgyi
Strategies for the synthesis of cyclic peptides. In Lebl M. andHoughton R.A. (Eds) *Peptides: The wave of the future* (Proceedings of the Second International and the Seventeenth American Peptide Symposium), Kluwer Academic Publishers, 2001, p140-141.

H.A. Remmer
"The Peptide Standards Project Committee" *J. Biomolecular Techniques* 12, (3), 72-73 (2001)

.H.A. Remmer & G.B. Fields
"Chemical synthesis of peptides" in: *Peptides and Protein Drug Analysis* (Ronald E. Reid, ed), p. 133-169, Marcel Dekker Inc, New York 2000

H.A. Remmer E. Jaeger, P. Ruecknagel & G. Jung
"Comparison of Fmoc-solid phase methods for the synthesis of pure [Nle¹⁷] VIP" in: *Innovation and Perspectives in Solid Phase Synthesis: Peptides, Proteins and Nucleic Acids Biomedical Applications* (R. Epton, ed.) Mayflower Worldwide, Birmingham (1994) p. 657-660.

E. Jaeger, H.A. Remmer, G. Jung, J. Metzger, W. Oberthuer, K.P. Ruecknagel, W. Schaefer, J. Sonnenbichler & I. Zetl

Side reactions in peptide synthesis V: "O-Sulfonation of Serine and Threonine during removal of the Pmc- and Mtr-protecting groups from arginine residues in Fmoc solid phase synthesis" Biol. Chem. Hoppe-Seyler, 374 (1993) p. 349-362.

E. Jaeger, P. Ruecknagel, H.A. Remmer & G. Jung " Synthesis and properties of peptides containing O-sulfonated serine and threonine residues" in Chemistry of Peptides and Proteins Vol. 5/6 (D. Brandenburg, V. Ivanov & W. Voelter, eds.), DWI Reports, Vol. 112A, Verlag Mainz, Aachen (1993) p. 115-124.

E. Jaeger, H.A. Remmer, P. Thamm, S.I. Said & H. Sharaf
"Structure activity studies on Vasoactive intestinal peptide: synthesis of analogs modified at residues Asp³-Ala⁴ and Asn⁹" Regulatory Peptides 40 (1992) 175.

C. Research Support Ongoing and/or Completed in Last Three Years.

Ongoing Research Support

5 P60 DK20572-24 W Herman (PI) 12/01/02 – 11/30/12
NIH
Michigan Diabetes Research and Training Center (MDRTC) Protein Structure Core Facility

The major goal of this subproject is the support Diabetes Research and Training Center investigators by the Protein Structure Core Facility. The core provides research services in peptide synthesis, mass spectrometry and protein structure analysis.

Role: Director of Protein Structure Core/Principal Investigator for Protein Core

P30 AR48310 DA Fox (PI) 01/01/02 – 07/31/11
NIH
University of Michigan Rheumatic Disease Core Center (RDCC) - Protein Structure Core Facility

The major goal of this subproject is the support of Rheumatic Disease Core Center investigators by the Protein Structure Core Facility. The core provides research services in peptide synthesis, mass spectrometry and protein structure analysis.

Role: Director of Protein Structure Core/Principal Investigator for Protein Core

2P30 DK034933-21 Owyang (PI) 12/01/05 – 11/30/10
NIH
University of Michigan Gastrointestinal Peptide Research Center - Peptide and Proteomics Core

The major goal of this subproject is the support of Gut Research Peptide Center investigators by the Protein Structure Core Facility. The core provides research services in peptide synthesis, and protein structure analysis.

Role: Director of Protein Structure Core/Co- Principal Investigator for Peptide and Proteomics Core

Completed Research Support

5 P30 CA 46592-14 M Wicha (PI) 06/01/01 – 04/01/05
NIH/NCI
Cancer Center Support Grant

Program Director/Principal Investigator (Last, First, Middle):

The core grant supports the senior leadership, programs and shared facilities of the Cancer Center. The Center provides the organizational framework to promote interdisciplinary research through the development of defined clinical, basic science and prevention programs in cancer research, and the development and support of shared resources.

Role: Director of Protein Structure Core/Principal Investigator for Protein Core