## Curriculum vitae Rudolf K. Thauer (4 pages) (03. 01. 2022)

#### **Personal Data:**

Born October 5, 1939 in Frankfurt/Main, Germany Married since 1968 with Helga Thauer (born Krebel)

Three children: Kattrin (1969), Jenny (1972), Christian (1976) Home Address: Vogelsbergstraße 47, D-35043 Marburg

## **University Studies**

1968-1971	Habilitation (Dr. rer. Nat. habil.), University of Freiburg (Institute of
	Biochemistry, together with Kurt Jungermann) (02/71)
1966-1968	Ph.D. (Dr. rer. nat.), University of Freiburg (Institute of Biochemistry, in
	the laboratory of Karl Decker) (summa cum laude) (05/68)
1962-1966	Biochemistry (Diplom), University of Tübingen (Diploma Thesis in the
	Institute of Physiological Chemistry, laboratories of Friedhelm
	Schneider and Günther Weitzel) (with honors) (06/66)
1962-1965	Medicine, University Tübingen (experimental work in the Institute of
	Pharmacology, laboratory of Hartmut Uehleke; first 3 publications)
	1963 Doktorandenstipendium der Thyssen Stiftung (300 DM/Monat)
1959-1961	Medicine, University of Frankfurt, Physikum (with honors) (10/61).

## **Academic appointments**

12/14 - today	Emeritus at the Max Planck Institute for Terrestrial Microbiology,
11/07-11/14	Emeritus group leader at the Max Planck Institute for Terrestrial
	Microbiology, Marburg
1991-2007	Director at the Max Planck Institute for Terrestrial Microbiology,
	Marburg, Department of Biochemistry
1976-2005	Full Professor, Microbiology, University of Marburg (until 03/05)
1972-1976	Associate Professor, Plant Biochemistry, Ruhr-University of Bochum
1971-1972	Assistant Professor, Biochemistry, University of Freiburg
1968-1971	Research Associate, Biochemistry, University of Freiburg

### **Guest Professorships**

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1999	Shimizu Visiting Professor, Environmental Engineering, Stanford University, CA, USA (03/99-05/99 in the lab. of A. Spormann)
1991	Rolf Sammet Visiting Professor, Organic Chemistry, University of Frankfurt (05/91-07/91 in the Institute of G. Quinkert)
1972	Visiting Scientist, Biochemistry, Case Western Reserve University, Cleveland, Ohio, USA (02/72-04/72 in the laboratory of H. G Wood)

## **Research Interests**

Biochemistry, physiology and ecology of anaerobic bacteria and archaea involved in the global methane cycle with a focus on the enzymes and coenzymes involved in the energy metabolism of acetogenic Clostridia, of sulfate-reducing bacteria and archaea, of methanogenic and methanotrophic archaea and of aerobic methanotrophic bacteria.

#### **Publications**

349 original papers, 78 reviews, 38 published lectures, 3 theses (diploma thesis, doctoral thesis, habilitation thesis) and 19 miscellaneous publications. Web of Science: h = 87 (more than 31,000 citations); Google Scholar: h = 104 (more than 46,000 citations). The most cited paper with more than 4,400 citations is: Thauer, R.K., Jungermann, K. and Decker, K. (1977) Energy conservation in chemotrophic anaerobic bacteria. Bact. Rev. *41*, 100-180.

#### Autobiographic reviews

My lifelong passion for biochemistry and anaerobic microorganisms (2015) Annual Review of Microbiology 69, 1-30.

Flavin-based electron bifurcation, ferredoxin, flavodoxin and anaerobic respiration with protons (Ech) or NAD<sup>+</sup> (Rnf) as electron acceptors: A historical review (2018) (Together with Wolfgang Buckel). Frontiers in Microbiology, Volume 9, Article 401, 1-24.

## Graduate teaching and mentoring

90 PhD theses, 92 diploma theses, 9 state examination theses, 5 bachelor theses and 10 habilitations. Of the former graduates/Habilitanden/Postdocs now 30 hold professorships in Microbiology or Biochemistry at German Universities or abroad.

#### **Awards and Honors**

Honorary Member of the Vereinigung für Allgemeine und Angewandte Mikrobiologie (2009)

Honorary Doctor of the University of Freiburg, Germany (2007)

Honorary Doctor of the University of Waterloo, Canada (2007)

Honorary Doctor of the ETH Zürich/Switzerland (2001)

Cothenius-Medal of the German Academy of Science Leopoldina (2021)

Lwoff Medal Award of the Federation of European Microbiology Societies (2015)

Medal for honor of the German Academy of Sciences Leopoldina (2013)

Carl Friedrich Gauß-Medaille, Braunschweigische Wiss. Gesellschaft (2008)

Carus-Preis der Stadt Schweinfurt (1993)

Carus-Medaille, Deutsche Akademie der Naturforscher Leopoldina, Halle (1992)

Gottfried Wilhelm Leibniz-Preis, Deutsche Forschungsgemeinschaft (1987)

Dannie-Heineman-Preis, Akademie der Wissenschaft zu Göttingen (1986)

Otto-Warburg-Medaille, Gesellschaft für Biologische Chemie (1984)

Thauera, name given by Joan Macy, then UC Davis, to a novel genus of beta- proteobacteria (1993) (in the meantime 15 species); *Methanobrevibacter thaueri*, name given by Terry Miller, Albany, New York, to a novel species of *Methanobrevibacter* (2000).

Thauer Metal-free hydrogenase, name given by the chemist Gernot Boche (Angewandte Chemie Int. Ed. 36,107-109,1997) to a novel "metal-free" hydrogenase discovered in the Thauer lab. The enzyme contains one iron per active site but this iron, which was later shown to be essential for activity, is not redox active.

## **Named Lectures**

Lars Ljungdahl Lecture, Athens, Georgia, USA (2015)

Marvin Bryant Memorial Lecture, Chicago, USA (2013)

Maynard and Suzanne Goldman Lecture, Marine Biological Laboratory, Woods Hole, Massachusetts, USA (2010)

Neil Welker Memorial Lecture, Wind River Conference on Prokaryotic Biology, Eastes Park, Colorado, USA (2010)

Tsung-Ying Shen Lectures, Massachusetts Institute of Technology, Cambridge,

Massachusetts, USA (2007)

Division K Lecturer at the 105<sup>th</sup> ASM meeting in Atlanta, USA (2005)

Nelson J. Leonard Lectures, University of Illinois at Urbana Champaign, USA (2006)

Roger Y. Stanier Memorial Lecture, UC Berkeley CA, USA (2005)

Stanley Dagley Lectureship, University of Minnesota, Minneapolis, USA (2003)

Burroughs Welcome Visiting Professor, University of Wisconsin, Madison, USA (03/2000)

Marjory Stephenson Prize Lecture, SGM, Nottingham, England (1998)

Peter Hemmerich Vorlesung, Universität Konstanz, 1998

First Albert Neuberger Lecture in Tetrapyrrole Science, London, England (1997)

11th A.J. Kluyver Memorial Lecture, University of Delft, The Netherlands (1996)

Malcom Moos Distinguished Visiting Professor, University of Minneapolis, Minneapolis, USA (1990)

## **Membership in Academies**

Foreign Member of the American Philosophical Society (founded 1743 by Benjamin Franklin) (since 2018)

Member of the American Academy of Microbiology (since 2012)

Member of the European Academy of Microbiology (since 2010)

Corresp. Member of the Rheinisch-Westfälische Äkademie der Wissenschaften, Düsseldorf (since 1991)

Member of the Academia Europaea (since 1990)

Corresp. member of the Akademie der Wissenschaften zu Göttingen (since 1989) Member of the Marburger Gelehrte Gesellschaft (since 1989) Member of the German Academy of Sciences Leopoldina (since 1984; from 1995 - 2001Obmann; from 2002-2004 Senator; from 2005-2010 member of the presidium)

# **Academic Services** (the most important)

Member of the working group "Resources" of the German Academy Project "Energy Systems of the Future"  2013 Member of the Jury of the Israel Prime Minister Prize for Innovation in Alternative Fuels for Transportation: 1 million USs, Coordinator of the chapter "Availability and sustainability of biomass as an energy source" in the Leopoldina Statement "Bioenergy-Chances and Limits Member of the LOEWE center for Synthetic Microbiology in Marburg Member of the Scientific Advisory Board of GLBRC (Madison, Wi, USA) Member of the Präsidium der Deutschen Akademie der Naturforscher Leopoldina, Halle Member of the Kuratorium der Angewandten Chemie Member of the DFG committee evaluating the Deutsch-Israelische Projektkooperation (DIP) from 2023. March 2004 and of the MPG committee evaluating the Moshe Shilo Minerva Center from 48. February 2006 in Israel Member of the Scientific Advisory Board of the "Southeast Collaboratory for Structural Genomics, University of Georgia, Athens, USA Initiator and first Speaker of the International Max Planck Research School in Marburg 2002 Member of the committee evaluating the Faculty of Biology of the ETH Zürich (1722- November 2002) DFG Vertrauensdozent Member of the Kuratorium of the Marburger Universitätsbund Head of the Scientific Advisory Board of the Scientific Revisory Board 1998-2003 Member of the Viratorium of the Marburger Universitätsbund Head of the Scientific Advisory Board of the Elibniz Prize Member of the Kuratorium of the DFG for the Leibniz Prize Member of the Kuratorium of the DFG for the Leibniz Prize Member of the Kuratorium of the DFG for the Leibniz Prize Member of the Scientific Advisory Board of the Scientific Advisory Board of the Groningen Biomolecular Sciences and Biotechnology Institute Initiator and member of the DFG Sondefroschungsbereich "Interaktion, Anpassung und katalytische Fähigkeiten von Bodenorganismen" Member of the Scientific Advisory Board of the Gesellschaft für Strahlenforschung (GSF), Neuherberge Member of the Scientific Advisory Board		ervices (the most important)
Member of the Jury of the Israel Prime Minister Prize for Innovation in Alternative Fuels for Transportation: 1 million US\$, Coordinator of the chapter "Availability and sustainability of biomass as an energy source" in the Leopoldina Statement "Bioenergy-Chances and Limits Member of the LOEWE center for Synthetic Microbiology in Marburg 2008-2010 Member of the Scientific Advisory Board of GLBRC (Madison, Wi, USA) Member of the Scientific Advisory Board of GLBRC (Madison, Wi, USA) Member of the Scientific Advisory Board of GLBRC (Madison, Wi, USA) Member of the Horacine Member of General Member of Horacine Member	2014-2018	Member of the working group "Resources" of the German Academy Project
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Microbiology, Bremen  1993-1998 Member of the core committee of the MPI for Plant Physiology, Golm  1993-2000 Head of the Scientific Advisory Board of the "Biozentrum" in Würzburg  1992-1999 Member of the committee "BMS Forschungsperspektiven" of the MPG  1992-1994 Member of the founding committee of the German-American Academic  Council (Deutsch-Amerikanische Akademische Konzil) (DAAK)  1991-1996 Building the new Max Planck Institute for Terrestrial Microbiology	4004 4000	•
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1990-2000 1990 -1991 1989	Initiator and first Speaker of the DFG Graduate School "Enzymchemie" Mitglied des Forschungs-und Technologie-Beirats Hessen Organization of the joint meeting of the VAAM, DGHM and NVvM in Marburg with 1200 participants (together with Wolfgang Buckel)		
1989-1994	Coordinator of the BMFT- Förderkonzept "Biologische Wasserstoffgewinnung"		
1989-1991	Mitglied des Nassauer Gesprächskreis (Ministerpräsident Dr. Walter Wallmann)		
1988-1991	Member of the founding committees for the Max Planck Institute for Marine Microbiology and for the Max Planck Institute for Terrestrial Microbiology		
1986-2011	Member of the board of "Freunde des Bildarchiv Foto Marburg"		
1984-1986	Gruppenvorsitzender für Biologie der Gesellschaft Deutscher Naturforscher und Ärzte (GDNÄ)		
1983-1987	Vice President of the German Science Foundation (DFG)		
1982-1988	Member of a group teaching each summer a one week biotechnology course at the MIT, Cambridge, Massachusetts; USA (Organizer: Anthony J. Sinskey)		
1981-1982	Dean of the Faculty of Biology, Philipps-University Marburg		
1980-1983	Treasurer of the SFB "Zellenergetik und Zelldifferenzierung"		
1980-1988	Organization each year of a two days symposium on different aspects		
1000 1000	of applied microbiology (together with Paul Präve from the Höchst AG)		
1979-1989	Initiator and first Speaker of the DFG Priority Programme "Methanogene Bakterien"		
1977-1981	Member of Selection Committee of the Humboldt Foundation		
1977-2007	Member of the Editorial Board of the European Journal of Biochemistry (now FEBS Journal)		
1974-2002	Member of the Editorial Board of Archives of Microbiology		
Industrial cooperations (the most important)			
2015-	Member of the Scientific Advisory Board of TRELYS(California, USA)		
2014-	Consultant of DMS Nutritional Products (Basel, Switzerland)		
2012-	Consultant of Evonik Industries AG (CREAVIS)		
2008-	Member of the Scientific Advisory Board of LanzaTech (Skokie/Chicago, USA)		
2000-2002	Member of the Scientific Advisory Board of the Dow Chemical Company, Midland, USA		
2002-	Member of the "Initiative Biotechnologie und Nanotechnologie" Marburg (Head until 2004)		
2000-2017	Member of the Scientific Advisory Board of Future Capital AG, Frankfurt		
1988-1997	Member of the Aufsichtsrat der Behringwerke AG Marburg		
1984-1990	Consultant for the Höchst AG, Frankfurt		
1983-1997	Member of the Kuratorium des Fonds der Chemischen Industrie		

# Official offers not accepted

Professor of Microbiology at the University of Illinois at Urbana-Champaign, USA (03/2007) George Lynn Cross Professor of Microbiology, University of Oklahoma, Norman, USA (06/88 and 10/89)

Scientific Head of the Gesellschaft für Biotechnologische Forschung (GBF) in Stöckheim bei Braunschweig (10/83)

Professor of Microbiology at the University Regensburg (10/79)

Professor of Biotechnology at the University Düsseldorf (01/75)

Director at the Institute for Biotechnology at the KFA Jülich (10/75)