

CURRICULUM VITAE

Name: **Neier**
First name: **Reinhard, Werner**
Date of birth: December 11, 1950
Place of birth: Basel
Nationality: Swiss
Citizenship: married
Wife: Christiane Bobillier Neier, 04.07.55
Children: Roland Neier, 18.06.86; Carine Neier, 09.08.90
Mother tongue: German
Languages: French, English
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STUDIES

1969 - 1972 **University of Basel**, philosophisch-naturwissenschaftliche Fakultät, main branch chemistry
Diploma work with Prof. C. Grob: Studies of substituent effects in quinuclidines

1973 - 1978 **ETH Zürich**, Laboratorium für organische Chemie,
Ph.D. with Prof. A. Eschenmoser:
"On the mechanism of the photochemical A/D-secocorrin → corrin-cycloisomerisation"

DIPLOMA AND CERTIFICATES

1969 **Matura type B**
1970 *Jacottet-Küng-Preis*
1972 **Diploma examination in chemistry**:
1973 examination in astronomy
1978 **Doktor der Naturwissenschaften**
1978 *Silbermedaille der ETH*
1989 **Habilitation** in the Science department of the University of Fribourg; "Privatdozent" for organic chemistry
1990 *Fujji-Otsuka price of the University of Tokushima*

PROFESSIONAL EXPERIENCE

1978 – 1979 **University of Cambridge** (England), University Chemical Laboratories, **postdoctoral appointment with professor A. R. Battersby**; theme: vitamin B₁₂ biosynthesis

1979 – 1980 **University of Geneva**, **maître-assistant**,
lectures on organic chemistry of peptides and asymmetric synthesis

1980 – 1985 **University of Fribourg**, **chef des travaux désigné** (responsible for laboratory courses in organic chemistry)

Since 1985	University of Fribourg, chef des travaux nommé
Since 1981	lectures at the institute of organic chemistry (usually 120h/academic year)
1991	Professeur Associé in Fribourg
1991	Professeur ordinaire in Neuchâtel
1994	Member of the committee for the evaluation of the chemistry department in Bern (Chemie 2000)
1997	Member of the Vorstand of the NSCG
1998	President of the 3e Cycle Chimie (Graduate teaching program of the French speaking Swiss Universities)
2000	President of the local organising committee for the Spring Meeting 2001 of the New Swiss Chemical Society
2002 - 2009	Vice-President of the SCG
Since 2002	Member of the Vorstand of the SGCI (see: http://www.sgci.ch/plugin/template/sgci/473/3725?selected_language=en)
2004 – 2006	Vice-rector “Research” Université of Neuchâtel
2004	Restructuring of the libraries at the Université of Neuchâtel
2005	Creating and implanting a evaluation system of all teaching activities
2006	Evaluation of the scientific activities and the curricula of Chemistry and French at the Université of Neuchâtel
2005 – 2007	Member of the Federal Commission for the Universities of Applied Sciences (old Polytech)
2008 –	Member of the Organic Committee of the 3ème Cycle
2008 –	Directeur de l’Institut de chimie
2009	Scientific committee for the “Fédération de la chimie à Toulouse” ; Review of the science and organisation at the University “Paul Sabatier”
2009	Professeur invitée, Université de Strasbourg , groupes du Professeur Hosseini en chimie et du Professeur Goeldner en pharmacie

TEACHING AND SUPERVISING EXPERIENCES

1979 – 1980	University of Geneva: Organic Chemistry II for biochemists and Heterocyclic Chemistry and Asymmetric Synthesis for chemists
1981 – 1991	University of Fribourg: Introduction to Organic Chemistry for Medical Students; Organic Chemistry II for chemists; Nomenclature for chemists; Stereochemistry for chemists; Synthetic Methodology for chemists; Reaction Mechanism for chemists; Vitamin B ₁₂ Chemistry and Biochemistry for chemists
1991 –	University of Neuchâtel: Organic Chemistry II, III and IV for chemists and students of pharmacy; Organic Chemistry in Nanotechnology for students of the Master of Micro- and Nanotechnology; Advanced NMR spectroscopy for students of the Master of Micro- and Nanotechnology; Bionanotechnology for students of the Master of Micro- and Nanotechnology; Natural Products chemistry for students of the Master of Biology; Analytical Chemistry for students of BSc in Biology and Pharmacy
1986 – 1987	CIBA-GEIGY Marly: Organic Chemistry for laborants

- 1993 **Pharmaforschung Merck Weinheim:** Modern Heterocyclic Chemistry for Pharma Research
- 1994 **CIBA-GEIGY Marly:** Modern Synthetic Methods
- 1994 **Arzneimittelwerke Dresden:** Heterocyclic Chemistry
- 1994 **Technical University Dresden:** Tandem reactions
Graduiertenkolleg der TU Dresden

EDITORIAL ACTIVITIES

- Editor:** **Volume Editor** of Volume 12 of Science of Synthesis Heteroarenes and Related Ring Systems Five-Membered Heteroarenes with Two Nitrogen or Phosphorus Atoms; Thieme Verlag, Stuttgart; General Editor Prof. D. Bellus
- Editorial Board:** **Member of the Editorial Board of Monatshefte**, Springer Verlag Wien
Member of the Committee for Flohet
Member of the Control Board of Arkivoc, Gainesville Florida
- Reviewer for:** *Angewandte Chemie*
Chemical Communications
Helvetica Chimica Acta
Journal of Organic Chemistry
Organic Letters
Photochemistry and Photobiology
Synlett
Targets in Heterocyclic Chemistry
Tetrahedron
Tetrahedron Letter

OUTREACH ACTIVITIES IN FAVOUR OF CHEMISTRY

- 1998 – 2003 **Photochemistry: A colourful lecture with experiments**
6 Lectures for high school teachers in the context of their training
- Since 1991 **Regular events** for school children typically age 8 to 12: Experimental lecture and lab experiments (see:
<http://www.unine.ch/chim/neier/Ecole%20Primaire%2025.06.2004/Photos.html>)
- Since 1992 **Participation in Passport vacances:** Events for school children age 12 to 16 regularly organized by the chemistry department
- 2001 **Lyophilisation: From Archeology to Biotechnology to coffee**
A project for the general public within Science et Cité in Neuchâtel
- 2001 **Synthesize your own hair gel:** Experiments for the general public in the context of the inauguration of Uni Mail
- Since 2004 **Patenschaften für Maturaarbeiten:** Offering laboratory stages to high school students and helping to find sponsor for the SCNAT (Swiss Academy of Natural Sciences)
- 2005 President of the Organizing Committee of the
Open Doors of the Science Faculty
- 2004 – 2005 President of the Event “**La main à la pâte Neuchâtel**” touching almost 80

different schools in the canton of Neuchâtel

(see: <http://www.unine.ch/laquinzainedelascience/>)

- 2005 **Expert of the SGCI** for the transfer of the chemistry department of the University of Applied Sciences Zürich from Winterthur to Wädenswil
- 2007 2 lectures in the context of the **continuous education for medical doctors** on "Vitamin B₁₂ and its medical importance"
- 2009 **Responsible for the organisation of "Portes Ouvertes"** in the Chemistry Building

LECTURES SINCE 1998

- 08.05.1998 6th RSC-SCI Joint Meeting, Galway (Irelande)
- 16.05.1998 Université Paul-Sabatier, Toulouse (France)
- 30.06.1998 ICOS 12, Venice (Italy)
- 27.11.1999 Université Paul-Sabatier, Toulouse (France)
- 06.04.1999 Institut für Organische Chemie, Universität Zürich
- 26.04.1999 Johann Wolfgang Goethe-Universität, Frankfurt (Germany)
- 27.04.1999 AgrEvo, Frankfurt Hoechst (Germany)
- 19.05.1999 Boehringer Ingelheim, Biberach (Germany)
- 18.06.1999 University of Reno (USA)
- 04.08.1999 17th ICHC, Vienna (Austria), invited lecture
- 17.08.1999 37th IUPAC Congress, Berlin (Germany), invited lecture
- 30./31.03.2000 Toulouse (France), lectures for DEA-students
- 16.05.2000 University of Hamburg (Germany), invited GDCh-lecture
- 17.08.2000 Griffith University, Brisbane (Australia), invited lecture
- 18.08.2000 University of Adelaide, Adelaide (Australia), invited lecture
- 22.08.2000 Monash University, Clayton (Australia), invited lecture
- 23.08.2000 Deakin University, Geelong (Australia), invited lecture
- 24.08.2000 University of Tasmania, Hobart (Australia), invited lecture
- 29.08.2000 ANU, Canberra (Australia), invited lecture
- 30.08.2000 University of New South Wales, Sidney (Australia), invited lecture
- 01.09.2000 University of Wollongon, Wollongon (Australia), invited lecture
- 04.09.2000 Southern Highlands Conference on Heterocyclic Chemistry, Bowral (Australia), invited lecture
- 21.11.2000 Université de Rennes, Rennes (France), invited Erasmus lecture
- 15.02.2001 Université Paul-Sabatier, Toulouse (France), invited Erasmus lecture
- 14.05.2001 University of Loughborough (UK), invited Erasmus lecture
- 15./16.05.2001 University of Exeter (UK), invited Erasmus lectures
- 18.05.2001 University of Kingston (UK), invited Erasmus lecture
- 02.08.2001 18th ICHC, Yokohama (Japan), lecture
- 17.05.2002 8th RSC-SCI Joint Meeting on Heterocyclic Chemistry, Edinburgh (UK)
- 19.08.2002 University of Stellebosch, invited lecture
- 30.08.2002 University of Basel, invited lecture
- 17.03.2003 University of Como (Italy), invited lecture
- 15.08.2003 IUPAC WCLM congress Ottawa, invited lecture
- 27.10.2003 University of Cambridge, invited lecture
- 28.10.2003 Chemistry Laboratory Cambridge, invited lecture
- 10.12.2003 GOECH lecture Graz, invited lecture
- 11.12.2003 GOECH lecture Wien, invited lecture

23.09.2004	EPFL Lausanne, invited lecture
30.03.2005	University of Strathclyde, Glasgow, invited lecture
04.07.2006	ICPP-4, Rome invited lecture
30.04.2007	Ludwigs-Maximilian-Universität, München, invited lecture
20.09.2007	Hôpital Pourtalès, invited lecture
13.12.2007	Hôpital Pourtalès, invited lecture
10.05.2008	11th RSC-SCI Joint Meeting on Heterocyclic Chemistry, Lerici, Italie invited lecture
11.12.2008	Université de Strasbourg, France; invited lecture
23.02.2009	Laboratoire de Chimie de Coordination, Campus CNRS 205, Toulouse, invited lecture
02.03.2009	Antigua, Zingh conference; lecture
23.04.2009	Université de Strasbourg, France; invited lecture
30.04.2009	Université de Strasbourg, Illkirch, France; invited lecture
18.11.2009	Technische Universität Dresden, Germany, GDCh invited lecture
24.11.2009	Universiteit Ghent, Belgium, Faculty of Bioscience Engineering, invited lecture

LECTURES AND PUBLICATIONS

More than 110 invited lectures

65 Scientific publications

15 Review articles or contributions to books

More than 70 posters

RESEARCH

Students:

Diploma students	39
Ph.D. students	31
Postdocs	15 (1 Australia, 5 France, 1 Germany, 1 Italy, 1 Rumania, 3 Slovakia, 3 Switzerland)
Stagiaire	10 (2 China, 1 France, 2 Spain, 4 Switzerland)
Actual group	4 Ph.D. students 1 Postdoc 2 apprentices

Grants:

1982 - present:	support from the Swiss National Science Foundation
1992 – 1994	A). Tandemreaktionen in der Synthese B). Untersuchungen der Aminolävulinsäure Dehydratase: Amount: 303'139.00
1994 – 1996	A). Tandem Reactions B). Porphobilinogen Synthese: Chemical Synthesis and Enzymatic Studies: Amount: 313'267.00
1996 – 1998	A) Porphobilinogen Synthase: Application of Combinatorial

	Chemistry to Inhibition Studies - B) Tandem Reactions: Application in Synthesis - C) Optical DNA-Sensors : Amount: 301'676.00
1997 – 1999	R'EQUIP: Modern NMR-Methods as Analytical Tools for the Characterisation of Synthetic and Natural Products together with R. Tabacchi: Amount: 60'000.00
1998 – 2000	A) Inhibition and NMR studies of the biosynthesis of the "Pigments of Life" B) Tandem [4+2] cycloaddition/ [3,3] sigmatropic shift reactions : Amount: 291'177.00
2000 – 2002	Studies of tandem reactions in nature and in chemistry: Mechanistic and structural studies of Porphobilinogen synthase combined with applications to chemical synthesis : Amount: 298'377.00
2000 – 2002	Synthesis of peptidic derivatives of 5-aminolevulinate and their application: Targeting pathological endothelial cells for photo- dynamic therapy and detection : Amount: 140'000.00
2002 – 2004	Structural and synthetic studies of the biosynthesis of the pigments of life; Synthesis of a "stereochemical library" in order to analyse and understand the structure of nonactin : Amount: 300'188.00
2003 – 2006	Derivatizing 5-aminolevulinate with glycosides: Targeting the biosynthesis of the "pigments of life" for photodynamic therapy : Amount: 131'300.00
2004 – 2006	Synthesis of extended porphyrins as potential building blocks for applications in nanotechnology : Amount: 266'775.00
2006 – 2009	Using the lessons from the "pigments of life": Modifications of porphyrinogens and of porphyrins in order to obtain new metal complexes and novel materials: Amount: 234'714.00
2009 – 2012	Project A: The synthesis and studies of new ligands derived from calix[4]pyrroles: Amount: 261'665.00
1992	CIBA-GEIGY Jubiläumsfonds for NMR
1997	REQUIP for upgrading of the 400 MHz NMR together with Professor R. Tabacchi
1997	CIBA-GEIGY Jubiläumsfonds for Postdoctoral Student
1998	Novartis Foundation for NMR
2001	CIBA Specialties

Collaborations with industry:

1986 - 1991	CIBA-GEIGY agrochemical research
1995	IPR Institute for Pharmaceutical Research Basel
2000 - 2006	CIBA Specialties

Collaborations with other research groups:

- Natural products synthesis laboratory of C.N.R.S. Toulouse
- Fox Cancer Research, Dr. E. Jaffe
- UCLA (USA) Organic Chemistry, Prof. Dr. Y. Rubin
- University of Southampton (UK), Dr. J. Cooper
- CHUV, Lausanne (Switzerland), Dr. L. Juillerat-Jeanneret

- UCLA, USA, Prof. Dr. K. Houk
- Ruprecht-Karls Universität, Heidelberg (Germany), Prof. L. Gade
- Université de Neuchâtel (Switzerland), Prof. H. Stoeckli-Evans
- Université de Neuchâtel (Switzerland), Prof. T. Turlings