

Prof. Dr. Karola Rück-Braun

January 2012

Institut für Chemie, Technische Universität Berlin

Strasse des 17. Juni 135, Sekr. C3, D-10623 Berlin, Germany

Tel.: +49-30-314-26319, Fax: +49-30-314-28625

e-mail: karola.rueck-braun@tu-berlin.de

Short Curriculum vitae

Nationality: German

Married, One Child

- 1983-1988 Diploma studies of Chemistry, Johannes Gutenberg-Universität, Mainz, Germany;
- 1988-1992 Ph.D. thesis, Johannes Gutenberg-Universität Mainz, Germany, Prof. Dr. Horst Kunz, Topic: Stereoselective Syntheses with Organoaluminium Compounds using Chiral Auxiliaries derived from Amino Acids and Carbohydrates, summa cum laude;
- 1992-1993 Postdoctoral Research, University of Cambridge, UK, Prof. Dr. Steven V. Ley, Topic: Total Synthesis of 1233A;
- 1993-1998 Habilitation, Johannes Gutenberg-Universität Mainz, Topic: Novel Organoiron Compounds: Syntheses and Applications in Heterocyclic Chemistry;
- 1998-2000 Hochschuldozentin (C2), Johannes Gutenberg-Universität, Mainz;
since 2000 Professorship (C3), Technische Universität, Berlin.

Visiting Appointment

- 1998 Visiting Professor University of Toronto, Canada;

Awards

- 1989 Adolf-Todt-Fellowship for Diploma Studies, Johannes Gutenberg-Universität, Mainz;
- 1989-1990 Ph.D. Fellowship, Fonds der Chemischen Industrie;
- 1992 Ph.D. thesis Award 1992, Johannes Gutenberg-Universität, Mainz;
- 1992-1993 DAAD-Scholarship for Postdoctoral Studies;
- 1994 Scholarship, Dr. Otto Röhm Gedächtnis-Stiftung, Darmstadt;
- 1993-1996 Habilitation Scholarship, Deutsche Forschungsgemeinschaft;

1995 and

- 1997 Scholarship, Emil und Paul Müller-Gedächtnis-Stiftung, Mainz;
 1997 Scholarship, Kalkhof-Rose-Stiftung, Akademie der Wissenschaften und
 der Literatur, Mainz;
 1998 ADUC-Habilitation Annual Award 1998, ADUC/GDCh;

Offers

- 2000 Universität Stuttgart and Technische Universität Berlin;

Scientific Affiliations

- Member, German Chemical Society (GDCh);
 Member, American Chemical Society (ACS);
 Member, SFB 498 (Collaborative Research Center, DFG: Protein-Cofactor-
 Interactions in Biological Processes, 2002 - 2005);
 Member, GK 352 (Graduate School, DFG: synthetische, mechanistische und
 reaktionstechnische Aspekte von Metallkatalysatoren, 2000 - 2006);
 Member, SFB 658 (Collaborative Research Center, DFG: Elementary Processes in
 Switches at Surfaces, 2005 - present);
 Member, UniCAT, Cluster of Excellence, TU Berlin (2007-2010);
 Member, BIGNSE Graduate School, TU Berlin (2007 – present);

Organizational Activities

- a. Member of the Board of the “Liebig-Vereinigung für Organische Chemie”,
 GDCh Division (2000-2003), and (2012-2015);
- b. Deputy Head of the Chemistry Department, TU Berlin (2001 - 2003);
- c. Speaker of the Graduiertenkolleg 352, DFG, TU Berlin (2003 - 2006);
- d. GDCh Continuing Education (Courses offered 2004-2011); Organic chemistry:
 Modern synthetic methods for organic chemists, engineers and laboratory
 assistants with a high practical orientation in both academia and industry);
- e. Member of the GDCh Board for Continuing Education (2004-2011);
- f. Member of the "Adolf-von-Baeyer-Denk Münze / Emil-Fischer-Medaille" Award
 Commission, GDCh (2008 -);
- g. Member of the International Advisory Board of European Journal of Organic
 Chemistry, Wiley-VCH, Weinheim (2009 -);

Current Research Profile:*1. Organic Synthesis:*

Synthesis of biologically active heterocyclic compounds and photochromic compounds including organometallic chemistry, catalysis and metal-mediated reaction cascades; solid phase synthesis; peptide chemistry; linker strategies; organic chemistry on semiconductor surfaces.

2. Application of Photochromic Compounds:

- a. Photoswitchable biomolecules (peptides and proteins): light-modulation of the structure and function of biomolecules;
- b. Photochromism of single molecules and ensembles on surfaces: design, synthesis and application.