

Prof. Dr. Christian P.R. Hackenberger

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Homepage: www.fmp-berlin.info/hackenbe/



Academic career

1996 – 1998	Undergraduate studies and prediploma in Chemistry	Albert-Ludwigs-Universität Freiburg
1998 – 1999	Graduate studies and M.Sc. with Prof. Samuel H. Gellman	Univ. of Wisconsin/Madison, USA
2000 – 2003	Ph.D. research with Prof. Carsten Bolm (<i>summa cum laude</i>)	RWTH-Aachen
2003 – 2005	Postdoctoral work with Prof. Barbara Imperiali	Massachusetts Institute of Technology, USA
2004	Research stay with Prof. Sheena E. Radford	University of Leeds, UK
2005 – 2006	Junior group leader as Liebig-Scholar (FCI)	Freie Universität Berlin
2006 – 2011	Emmy-Noether-Group leader (DFG)	Freie Universität Berlin
2011	Habilitation and <i>venia legendi</i> in Organic Chemistry	Freie Universität Berlin
2011 – 2012	Associate Professor (W2) for Bioorganic Chemistry	Freie Universität Berlin
2012 –	Leibniz-Humboldt-Professor (W3) for Chemical Biology	HU Berlin and FMP

Research interests

- Development of chemoselective ligation and modification strategies for functional protein synthesis
- Labeling strategies for antibody- and nanobody-conjugates, generation of antibody-drug-conjugates (ADCs)
- Synthesis and proteomic analysis of labile phosphorylated peptides (pLys and pCys)
- Intracellular delivery and targeting of functional proteins
- Functional investigation of the Alzheimer-relevant Tau protein
- Engineering of protein-based multivalent scaffolds, metabolic oligosaccharide engineering

Honors and Awards

2020	Breakthrough of the Year-Award (Life Sciences) by the Falling Walls Foundation
2019	Novartis Lecturer and Visiting Professor New York University (NYU)
2018	Leonidas Zervas Award of the European Peptide Society
2018	JSPS Invitational Fellowship (Japan)
2018	Leibniz Gründerpreis for the foundation of <i>Tubulis Technologies</i>
2018	Visiting Professor at the Leopold-Franzens Universität Innsbruck
2016	Fellow of the Royal Society of Chemistry
2014	“The best 40 under 40 in Germany” (Welt am Sonntag)
2013	Harlan L. and Margaret L. Goering Visiting Professor of Chemistry (UW Madison/WI, USA)
2012	ORCHEM-Award of the GDCh for junior investigators
2011/2012	Recognized as “Top 40 young German scientists under 40” (Capital)
2011	Heinz-Maier-Leibnitz-Award of the DFG
2011	ADUC-Award of the GDCh for junior investigators
2011	Dozentenstipendium of the “Fonds der chemischen Industrie” (FCI) and the Aventis Foundation
2010	Recognition in the competition “Junior investigator of the year 2010”
2010	“Plus 3”-Award of the Boehringer-Ingelheim Foundation
2009	Award of the GDCh section “Macromolecular Chemistry” (Fachgr. Makromolekulare Chemie)
2008	Award of the Otto-Röhm Memorial Foundation
2006	Emmy-Noether-Group leader
2005	Liebig-Scholarship of the FCI
2005	Thieme-Journal Award
2003/2005	Postdoctoral fellowship of the DAAD and DFG
2003	Borchers Medal and Friedrich-Wilhelm Price (RWTH Aachen)
2001	Scholarship for scientific journalism of the FCI
2000/2001	“Kekulé”-Ph.D.-Scholarship of the FCI and of the “Studienstiftung des Deutschen Volkes”
1998	Study-abroad Scholarship of the Universität Freiburg within the “Academic-Year-Programs”
1997	Scholarship of the “Studienstiftung des Deutschen Volkes”

Further activities/memberships/commissions of trust

2019 –	Member of the Editorial Advisory Board of Chemical Science (Royal Society of Chemistry RSC)
2016 –	Member of the Editorial Advisory Board of ChemBioChem (Wiley-VCh)
2015 –	Associate Editor Organic and Biomolecular Chemistry (Royal Society of Chemistry RSC)
2011 – 2018	Spokesman and Head of the DFG priority program (DFG Schwerpunktprogramm) SPP 1623
2012 –	Liaison professor (Vertrauensdozent) of the “Studienstiftung des Deutschen Volkes”
2008 –	Elected Member of the Max Bergmann Society, Germany
2008 –	Independent project leader (TP B5) and member of the executive board in the SFB 765
2002 –	Member of the American Chemical Society (ACS)
2001 –	Member of the GDCh
2012 – 2014	Member of the Advisory Board of Organic and Biomolecular Chemistry (RSC)
2011 – 2013	Head of the GDCh section in Berlin (Ortsverband Berlin)
2008 – 2012	Member of the network “Excellence at German Universities” of the Friedrich-Ebert-Foundation
2008 – 2012	Spokesman and Head of the Research Training Group (Graduiertenkolleg) within the SFB 765
2007 – 2012	Member of the permanent advisory board of the Dahlem Research School
2001	Editorial office assistant and author at the WDR television (Wissenschaftsredaktion)

Conference organization

2019	Organization (Head) Emil-Fischer-Symposium in Berlin
2019	Organization (Head) 8 th Chemical Protein Synthesis Meeting in Berlin
2017	Organization (Board Member) 7 th Chemical Protein Synthesis Meeting in Haifa
2015	Organization (Board Member) ECBS/ICBS "Chemical Biology" in Berlin
2014	Organization (Head) 5 th Sion-German Conference “Frontiers of Chemistry” in Berlin
2014	Organization (Head) GDCh-Biochemistry Symposium “Bioorthogonal Chemistry” in Berlin
2013	Organization (Board Member) 5 th Chemical Protein Synthesis Meeting in Vienna
2012	Organization (Board Member) 4 th Sion-German Conference “Frontiers of Chemistry” in Beijing
2008	Organization (Head) 5 th Emmy-Noether-Meeting in Chemistry 2008 at the FU Berlin
2007	Organization (Head) 17 th symposium “Bioorganische Chemie” for junior researchers
2006	Organization (Head) 16 th symposium “Bioorganische Chemie” for junior researchers

Third party funded research projects

2019 – 2023	Project within the DFG Research Training Group “Peptide” GrK 2473/1
2020 – 2021	“Corona Virus Pre Exploration Project” (BUA)
2018 – 2021	Project within the Program: Leibniz-Transfer “Cystein-selective bioconjugation for next generation antibody drug conjugates” (SAW)
2012 – 2018	Coordination of DFG priority program 1623 (DFG)
2016 – 2018	Project “Chemoselective Staudinger-induced Michael-additions to antibodies to analyze protein homeostasis in <i>C. elegans</i> ” within the DFG priority program 1623 (DFG)
2012 – 2018	Project “Site-specific functionalization of nanobodies: From labeling to cellular uptake” within the DFG priority program 1623 (DFG)
2008 – 2019	Project B5 of the collaborative research center SFB 765 (DFG), “Synthesis of multivalent ligand binding systems via chemoselective saccharide- and peptide-ligations” and “Site-specific functionalization of proteins for the acquisition of multivalent glycoconjugates”
2010 – 2015	“Plus 3”-Award (Boehringer-Ingelheim Stiftung) „Chemoselective Staudinger-reactions for the modification of peptides and proteins“
2008 – 2012	Research Training Group in the SFB 765 (DFG) “Multivalency in chemistry and biochemistry”
2010	Idea contest “Nanoscale” (FU Berlin) “Incorporation of IR-labels by unnatural protein translation for the site-specific detection of conformational changes in membrane proteins”
2008	Idea contest „biocommunication“ (FU Berlin) “Site-specific protein phosphorylation by a chemoselective Phosphite-Staudinger reaction”
2008	Project within the innovation fund (FU Berlin), “Semi-Synthesis of phosphorylated Tau proteins for the study of pathological relevant aggregation phenomena”;
2007 – 2010	BMBF-Glycobiotechnologie (BMBF), “Development of new cellular systems for the acquisition of diagnostic and therapeutic glycoproteins”
2006 – 2011	Emmy Noether Program (DFG), “New synthetic methods for naturally modified peptides and proteins, their structural evaluation and biological function”