

## Curriculum Vitae: Dr. Christian Schöneich

*Takeru Higuchi Distinguished Professor and Chair,  
Department of Pharmaceutical Chemistry,  
The University of Kansas*

Title: Ph.D.  
Date of birth: 26.03.1962  
Place of birth: Berlin, FRG  
Nationality: Double Citizenship: German, U.S.  
Visa status: U.S. Citizen

Address:

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(785) 864-4880 (Institute)  
email: schoneic@ku.edu

Marital status: Married, 3 children.

### School:

1968-1974: Schweizerhof-Grundschule Zehlendorf, Berlin  
1974-1980: Arndt-Gymnasium Dahlem, Berlin  
1980: Abitur

### University:

1981-1982: Material Sciences, Technical University Berlin  
1982-1987: Chemistry, Free University Berlin  
October 1987: Diplom at the Free University Berlin  
January 1990: Ph.D. in chemistry with "honors", Technical University Berlin

### Title of dissertation

"Quantitative kinetic investigations of the reversible H-atom transfer between radicals from thiols and biological relevant compounds".  
Research Director: Professor K.-D. Asmus

### Professional employment:

11/1987 - 05/1991: Research Assistant at the Hahn-Meitner-Institute Berlin, Germany.  
05/1988 - 08/1988: Brunel University Uxbridge, London, England; Dept. of Biochemistry.  
05/1991 - 07/1992: Postdoctoral Fellow (DFG-fellowship): Department of Pharmaceutical Chemistry, University of Kansas, Lawrence, KS 66045, USA.  
08/1992-07/1998: Assistant Professor, Department of Pharmaceutical Chemistry, University of Kansas, Lawrence, KS 66047, USA.  
08/1998-07/2003: Associate Professor, Department of Pharmaceutical Chemistry, University of Kansas, Lawrence, KS 66047, USA.  
08/2003-present: Courtesy Professor, Department of Chemistry University of Kansas, Lawrence, KS 66045, USA.  
08/2003-present: Professor, Department of Pharmaceutical Chemistry  
01/2004-07/2004: Visiting Professor, Department of Inorganic Chemistry, ETH Zürich, Switzerland  
01/2005-present: Chair, Department of Pharmaceutical Chemistry  
01/2010-present: Member, Board of Trustees, KU Center for Research  
08/2011-present: *Takeru Higuchi Distinguished Professor for Bioanalytical Chemistry*, Department of Pharmaceutical Chemistry

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### ***Awards and Honors***

1989	"Young Investigator Travel Award" of the Baxendale Fund for attendance of Miller-Conference in England, 1989.
1990	"Young Investigator Award" of the <i>Society For Free Radical Research</i> (SFRR) (awarded in Pasadena, CA, USA).
1991	Schering-Award (for the dissertation).
1991	Tiburtius-Award (for the dissertation).
1991-1992	Postdoctoral fellowship of the Deutsche Forschungsgemeinschaft (DFG).
1991-1993	Postdoctoral Fellowship from Hoffmann-LaRoche, Nutley, NJ, USA.
1994	"Young Investigator Award" of the <i>Society For Free Radical Research</i> (SFRR) (awarded in Sydney, Australia).
1995	"Young Investigator Travel Award" of the Baxendale Fund for attendance of Miller-Conference in Italy, 1995.
1996, 1997	Eli Lilly New Investigator Award in Pharmaceutics 1996 and 1997
2001	Pfizer Research Scholar Award
2002	Pfizer Research Scholar Award
2003	Pfizer Research Scholar Award
2003	Center for Teaching Excellence Award for Graduate Teaching
2003	Teacher of the Year, American Association of Colleges of Pharmacy
2004	Pfizer Research Scholar Award
2005	Elected Fellow of the <i>American Association of Pharmaceutical Scientists</i> (AAPS)
2010	Dolph Simons Award in Biomedical Sciences
2011	Named <i>Takeru Higuchi Distinguished Professor for Bioanalytical Chemistry</i>
2013-present	Assessor, Australian Research Council
2014-2015	Senior Administrative Fellow, The University of Kansas
2018	Elected Vice-Chair of <i>Gordon Conference on Oxygen Radicals 2020</i>
2018	Elected Chair of <i>Gordon Conference on Oxygen Radicals 2022</i>

### ***Editorial Positions***

2002-present	Editorial Advisory Board <i>J. Pharm. Sci.</i>
2008-present	International Editorial Board, <i>Free Radical Biology &amp; Medicine</i>
2009-present	Review Editor, <i>Free Radical Research</i>
1998-2018	Scientific Advisory Board, <i>Experimental Gerontology</i>
2000-2004	Associate Editor, <i>AAPS PharmSci</i> , now: <i>The AAPS Journal</i>

### ***Past Editorial Positions***

Editorial Advisory Board, *Chemical Research in Toxicology*

### ***Advisory Board***

2014-present Scientific Advisory Board, Coriolis Pharma, Munich, Germany

### ***Professional Organizations***

Society for Redox Biology and Medicine (SFRBM)  
American Chemical Society (ACS)  
Association of American Pharmaceutical Scientists (AAPS)  
American Society for Photobiology (ASP)

### ***Service***

2003-2006 American Heart Association, Heartland Affiliate, Research Committee  
2005 Member, Miller Trust Committee (Miller Conference on Radiation Chemistry)

### ***Recent University-wide service:***

2013-2014 Member, Campus Safety Task Force  
2010-2012 Member, Work group on Driving Discovery and Innovation (DDI) of the  
University Strategic Planning Committee  
2010-2012 Member of the Stakeholder Group for the development of a university-wide faculty activity reporting  
system  
2009-present Member, Board of Trustees KU Center for Research  
2009-2010 Member, Chancellor's Task Force on Faculty Research Engagement  
2008-present: Member, Internal Advisory Board of the Higuchi Biosciences Center  
2005-2006: Chair, University Committee on Establishment of a Postdoctoral Association at KU

## Financial Support: Christian Schöneich

### Active support

- a) **NIH/FDA (1U01FD005285), Development of an Integrated Mathematical Model for Comparative Characterization of Complex Molecule**  
b) 8.3%, PI, Multi-PI Grant                      c) 09/08/14-09/07/2017                      d) \$ 1,000,000  
e) This grant supports the development of an algorithm which correlates experimental data on chemical and physical stability of biological macromolecules with biological activity  
f) No overlap
- a) **Genentech, Mechanisms of protein oxidation**  
b) 2%, PI    c) 05/01/10-06/30/2019                      d) \$ 1,074,500  
e) This grant supports mechanistic research on thiyl radical-dependent protein oxidation  
f) No overlap
- a) **Genentech, Mechanisms of polysorbate oxidation**  
b) 2%, PI    c) 05/01/14-7/31/2018                      d) \$ 400,000  
e) This grant supports mechanistic research on radical-dependent polysorbate oxidation  
f) No overlap
- a) **Genentech, Mechanisms of poloxamer oxidation**  
b) 2%, PI    c) 07/01/18-6/30/2019                      d) \$ 40,000  
e) This grant supports mechanistic research on radical-dependent polysorbate oxidation  
f) No overlap

## **Completed projects in the last five years**

- a) **NIH (N01HV00239), "Modification of cardiovascular proteins by metabolic disease"**
- b) National Proteomics Center; 5%, PI of subcontract
  - c) 08/01/10-07/31/2015
  - d) \$ 291,000 for subcontract
- e) This grant supports the investigation of the role of reactive oxygen species in aging in vivo and in vitro.
- f) No overlap
  
- a) **NIH (3P01AG12993), Program Project, "Role of Reactive Oxygen Species in Aging"**
- b) 16%, Project Leader of subproject #1 & Co-Director of the Core Facility (PI: E. Michaelis)
  - c) 04/01/1995-03/31/2014
  - d) ca. \$ 2.5 million for subproject #1
- e) This grant supports the investigation of the role of reactive oxygen species in aging in vivo and in vitro.
- f) No overlap
  
- a) **NSF (CHE-0455575), New biologically relevant sulfur radical cation chemistry**
- b) 8.33%, PI of subcontract
  - c) 08/01/10-07/31/14
  - d) \$ 240,000 direct for subcontract
- e) This grant supported mechanistic studies on sulfur oxidation relevant to beta-amyloid and Alzheimer's Disease
- f) No overlap
  
- a) **Janssen, Understanding mechanisms of protein oxidation and its effect on physical behavior**
- b) 2%, PI
  - c) 02/01/10-01/31/2015
  - d) \$ 100,000
- e) This grant supports research on the degradation mechanisms of concentrated and diluted antibody formulations
- f) No overlap
  
- a) **FDA, Physicochemical and biological evaluations of different IgG1 Fc glycoforms as a model for biosimilar comparability analysis**
- b) 2%, Co-PI
  - c) 03/01/14-02/28/2015
  - d) \$ 105,000
- e) This grant supports the characterization of the effect of glycosylation on the physical and chemical stability of proteins
- f) No overlap
  
- a) **Amgen Inc., Light-induced degradation of proteins: role of thiyl radicals**
- b) 2%, PI
  - c) 12/16/06-12/17/2012
  - d) \$ 305,000
- e) This grant supports mechanistic research on thiyl radical-dependent protein oxidation
- f) No overlap
  
- a) **Bristol Myers Squibb, Peptide and protein disulfide bonds as targets for oxidative damage**
- b) PI; Graduate Student Fellowship
  - c) 05/01/10-04/30/13
  - d) \$ 120,000
- f) This grant focuses on mechanism of oxidative damage of disulfide bonds
- e) No overlap

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