

Becker, Katja (spokesperson)

General Information

Name: Becker, Katja
Academic title: Prof. Dr. med.

Gender: Female
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Current position/status: Professor (C4/W3)]



Academic Education and Qualifications

1984-1991 Medical education, Heidelberg University
1986-1988 MD-thesis (PhD equivalent), Institute of Biochemistry, Heidelberg University (*summa cum laude*)
8/1988-3/1989 DFG scholar, Institute of Pathology, Sydney University, Australia
1990-1991 Internships at the Kantonsspital Basel (Internal Medicine), Heidelberg University (Cardiac surgery), and at the John Radcliffe Hospital Oxford (Pediatrics)
25.11.1991 Final Medical Examination
1/92-6/93 Medical Assistant University Children's Hospital, Heidelberg
12.8.93 Approbation
05.09.96 Habilitation for "Biochemistry," Heidelberg University
11.11.98 "Medical specialization in Biochemistry"

Professional Career

7/93-2/99 Assistant Professor, Centre of Biochemistry, Heidelberg University
7/1994-12/1994 Postdoctoral Researcher, Institute of Pathology, Sydney University
3/99-9/99 Associate Professor, Centre of Biochemistry, Heidelberg University
10/99-8/00 Independent Junior Group Leader, Research Centre for Infectious Diseases, Würzburg University
since 9/00 C4/W3-Professor for Biochemistry and Molecular Biology (chair) at the Interdisciplinary Research Centre, Giessen University
11/05-4/06 Sabbatical at the Department of Cell Biology, The Scripps Research Institute, La Jolla, CA, USA, Prof. John Yates III
11/2009-10/2012 Vice President (Research) of the Justus Liebig University Giessen

Professional Awards

1989 Ludolf-Krehl-Preis, "Südwestdeutsche Gesellschaft für Innere Medizin"
1993 Young Investigator Award, "Stiftung für Ernährungswissenschaft," Göttingen
1994 Boehringer Mannheim Research Scholarship
1998 Friedrich-Fischer-Nachlaß, Heidelberg University
2000-2005 Member of the "Junge Akademie" at the "Berlin-Brandenburgische Akademie der Wissenschaften" and the "Leopoldina"
Spring 2003 Funding of the Symposium "Redox Metabolism in Malaria: From Genes to Drugs," Bellagio, Italy, by the Rockefeller Foundation
October 2003 Carus-Medal of the German Academy for Natural Scientists "Leopoldina"

March 2004
since June 2009
March 2010

Carus-Prize
Member of the German National Academy of Sciences "Leopoldina"
Rudolf-Leuckart-Medal of the German Society of Parasitology

Publications (5 most important publications out of >200 publications, H-index 49)

1. **Becker K**, Savvides S, Keese M, Schirmer RH, Karplus PA **(1998)**
Enzyme inactivation through sulfhydryl oxidation by physiologic NO-carriers
Nat Struct Biol 5, 267-271
2. Kanzok S, Fechner A, Bauer H, Ulschmid JK, Müller HM, Botella-Munoz J, Schneuwly S, Schirmer RH, **Becker K (2001)**
Substitution of the thioredoxin system for glutathione reductase in *Drosophila melanogaster*
Science 291, 643-646
3. Fritz-Wolf K, Becker A, Rahlfs S, Harwaldt P, Schirmer RH, Kabsch W, **Becker K (2003)**
X-ray structure of glutathione S-transferase from the malarial parasite *Plasmodium falciparum*
Proc Natl Acad Sci USA 100, 13821-13826
4. Perez-Jimenez R, Li J, Kosuri P, Sanchez-Romero I, Wiita AP, Rodriguez-Larrea D, Chueca A, Holmgren A, Miranda-Vizuetes A, **Becker K**, Cho SH, Beckwith J, Gelhaye E, Jacquot JP, Gaucher E, Sanchez-Ruiz JM, Berne B, Fernandez JM **(2009)**
Diversity of chemical mechanisms in thioredoxin catalysis
Nat Struct Mol Biol 16, 890-896
5. Fritz-Wolf K, Kehr S, Stumpf M, Rahlfs S, **Becker K (2011)**
Crystal structure of the human thioredoxin reductase - thioredoxin complex
Nat Commun 2, 383, doi: 10.1038/ncomms1382