

Krauth-Siegel, R. Luise

General Information

Name: Krauth-Siegel, R. Luise
Academic title: Prof. Dr. rer. nat.

Gender: Female
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Heidelberg University
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Current position/status: Professor (C3)



Academic Education and Qualifications

1972-1979 Studies of chemistry at Heidelberg University, Diploma
1982 PhD from the Max-Planck-Institute for Medical Research Heidelberg
1989 Habilitation in Biochemistry
1995/1997 Guest scientist at the University of Michigan, Ann Arbor, USA

Professional Career

1982-1995 Staff member at the Institute of Biochemistry II, Heidelberg University
1995-2003 Apl. Professor for Biochemistry at the Centre of Biochemistry of Heidelberg University
2002 Call for a professorship for Pharmaceutical Chemistry (Marburg), declined
since 2003 Professor for Biochemistry at the Centre of Biochemistry of Heidelberg University (BZH)

Professional Awards

2008-2012 German representative of COST Action CM0801 of the EU on "New drugs for neglected diseases"

Publications (5 selected ones out of 120 publications, H-index 35)

1. Dormeyer M, Reckenfelderbäumer N, Lüdemann H, **Krauth-Siegel RL (2001)**
Trypanothione-dependent synthesis of deoxyribonucleotides by *Trypanosoma brucei* ribonucleotide reductase
J Biol Chem 276, 10602-10606
2. **Krauth-Siegel RL**, Bauer H, Schirmer RH (2005)
Dithiol proteins as guardians of the intracellular redox milieu in parasites: Old and new drug targets in trypanosomes and malaria-causing *Plasmodia*
Angew Chem Int Ed 44, 690-715
3. Melchers J, Diechtierow M, Fehér C, Sinning I, Tews I, **Krauth-Siegel RL**, Muhle-Goll C (2008)
Structural basis for a distinct catalytic mechanism in *Trypanosoma brucei* trypanaredoxin peroxidase
J Biol Chem 283, 30401-30411

4. Ceylan S, Seidel V, Ziebart N, Berndt C, Dirdjaja N, **Krauth-Siegel RL (2010)**
The dithiol glutaredoxins of African trypanosomes have distinct roles and are closely linked to the unique trypanothione metabolism
J Biol Chem 285, 35224-35237

5. Füller F, Jehle B, Putzker K, Lewis JD, **Krauth-Siegel RL (2012)**
High-throughput screening against the peroxidase cascade of African trypanosomes identifies antiparasitic compounds that inactivate tryparedoxin
J Biol Chem 287, 8792-8802