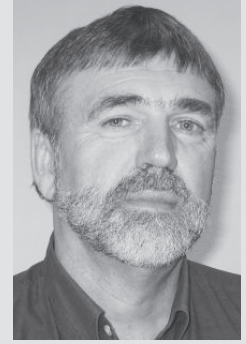


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### Curriculum vitae

since 2005 Scientific Director, Charité Centrum 2, Basic Sciences, Charité  
since 1993 Professor (W3) and Chair, Institute of Biochemistry, Charité  
1987 – 1993 Professor, Ruprecht Karls University, Heidelberg  
1986 – 1993 Research group leader, Zentrum für Molekulare Biologie, Heidelberg,  
1985 Habilitation in molecular genetics, Department of Biology, University of Heidelberg  
1982 – 1987 Assistant Professor, Institute of Molecular Genetics, Heidelberg  
1981 – 1982 Post-doc, Institute of Biochemistry, Oxford University  
1979 – 1981 Post-doctoral grant, DFG, Institute of Zoology, University of St. Andrews, Scotland  
1978 – 1979 PhD, Institute of Genetics, University of Düsseldorf  
1976 Diploma in Biology, University of Düsseldorf  
1972 – 1976 Studies of Biology, University of Düsseldorf  
1970 – 1972 Studies of Biology, University of Tübingen

### Research fields

- Analysis of proteasome assembly
- The role of the UPS in the cellular immune response
- Identification and functional analysis of post-translational modifications of the proteasome complex
- Development of new proteasome inhibitors
- Interaction of tetra-ubiquitinated substrates with the 26S proteasome and functional consequences

### Activities in the scientific community, honors, awards

2003 Medal of Honor for “Achievements in Proteasome Research”, European Proteasome Workshop, Clermont-Ferrand, France  
1998 – 2008 Coordinator of the Collaborative Research Center (SFB) 421, “Protective and pathological consequences of antigen processing”

## Selected publications

Bech-Otschir, D, Helfrich, A, Enenkel, C, Consiglieri, G, Seeger, M, Holzhutter, HG, Dahlmann, B and Kloetzel, PM. Polyubiquitin substrates allosterically activate their own degradation by the 26S proteasome. *Nat Struct Mol Biol.* 2009; 16, 219-25.

Seifert, U, Bialy, LP, Ebstein, F, Bech-Otschir, D, Voigt, A, Schroter, F, Prozorovski, T, Lange, N, Steffen, J, Rieger, M, Kuckelkorn, U, Aktas, O, Kloetzel, PM and Kruger, E. Immunoproteasomes preserve protein homeostasis upon interferon-induced oxidative stress. *Cell.* 2010; 142, 613-24.

Ebstein, F, Lange, N, Urban, S, Seifert, U, Kruger, E and Kloetzel, PM. Maturation of human dendritic cells is accompanied by functional remodelling of the ubiquitin-proteasome system. *Int J Biochem Cell Biol.* 2009; 41, 1205-15.

Heink, S, Ludwig, D, Kloetzel, PM and Kruger, E. IFN-gamma-induced immune adaptation of the proteasome system is an accelerated and transient response. *Proc Natl Acad Sci U S A.* 2005; 102, 9241-6.

Seifert, U, Liermann, H, Racanelli, V, Halenius, A, Wiese, M, Wedemeyer, H, Ruppert, T, Rispeter, K, Henklein, P, Sijts, A, Hengel, H, Kloetzel, PM and Rehmann, B. Hepatitis C virus mutation affects proteasomal epitope processing. *J Clin Invest.* 2004; 114, 250-9.

Aktas, O, Prozorovski, T, Smorodchenko, A, Savaskan, NE, Lauster, R, Kloetzel, PM, Infante-Duarte, C, Brocke, S and Zipp, F. Green tea epigallocatechin-3-gallate mediates T cellular NF-kappa B inhibition and exerts neuroprotection in autoimmune encephalomyelitis. *J Immunol.* 2004; 173, 5794-800.

Seifert, U, Maranon, C, Shmueli, A, Desoutter, JF, Wesoloski, L, Janek, K, Henklein, P, Diescher, S, Andrieu, M, de la Salle, H, Weinschenk, T, Schild, H, Laderach, D, Galy, A, Haas, G, Kloetzel, PM, Reiss, Y and Hosmalin, A. An essential role for tripeptidyl peptidase in the generation of an MHC class I epitope. *Nat Immunol.* 2003; 4, 375-9.

Sijts, AJ, Ruppert, T, Rehmann, B, Schmidt, M, Koszinowski, U and Kloetzel, PM. Efficient generation of a hepatitis B virus cytotoxic T lymphocyte epitope requires the structural features of immunoproteasomes. *J Exp Med.* 2000; 191, 503-14.

Groettrup, M, Soza, A, Eggers, M, Kuehn, L, Dick, TP, Schild, H, Rammensee, HG, Koszinowski, UH and Kloetzel, PM. A role for the proteasome regulator PA28alpha in antigen presentation. *Nature.* 1996; 381, 166-8.

Boes, B, Hengel, H, Ruppert, T, Multhaup, G, Koszinowski, UH and Kloetzel, PM. Interferon gamma stimulation modulates the proteolytic activity and cleavage site preference of 20S mouse proteasomes. *J Exp Med.* 1994; 179, 901-9.