General Information

Name:	Prof Dr. Karsten Rippe
Date of Birth:	4.10.1964
Gender:	Male
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	German Cancer Research Center (DKFZ) & Bioquant Im Neuenheimer Feld 267 - BQ 24, 69120 Heidelberg
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Current Position:	Head, Division of Chromatin Networks, DKFZ Professor (W3), University of Heidelberg

Academic Education

1989	Diploma in Biology, University of Göttingen
1981-1987	Study of Biology, University of Göttingen

Academic Degrees

2000	Habilitation at the Faculty of Biological Sciences, University of Heidelberg
1989-1991	PhD degree, University of Göttingen, MPI for Biophysical Chemistry, Department of Molecular Biology (Thesis advisor: Thomas Jovin)

Professional Experience

Since 2018	Professor (W3) at the University of Heidelberg
Since 2017	Head, Division of Chromatin Networks at the DKFZ and the Bioquant Center, Heidelberg
2007-2017	Head of the Research Group Genome Organization & Function at the DKFZ and the Bioquant, Heidelberg
2001-2007	Group Leader of the Molecular Biophysics Group at the Kirchhoff-Institut für Physik, University of Heidelberg
1994-2001	Scientist at the German Cancer Research Center (DKFZ) in the Divisions Biophysics of Macromolecules (Head: Jörg Langowski) and Molecular Genetics (Head: Peter Lichter)
1992-1994	Post-doctoral Fellow, Dept. of Chemistry and Biochemistry (Head: Peter von Hippel), Institute for Molecular Biology, University of Oregon, Eugene, USA

Miscellaneous

Coordinating Functions:

Since 2017	Coordinator (together with Eileen Furlong) of the Single Cell Center Heidelberg (https://single-cell-center-hd.de)
2015-2017	Speaker of the Steering Committee of the BMBF e:Med Program on Systems Medicine (http://www.sys-med.de)
Since 2009	Coordinator (together with Christoph Plass) of the epigenetics@dkfz cross-program topic
Since 2009	Coordinator of 4 systems biology and systems medicine consortium projects in the BMBF SysTec, CancerSys, e:Bio and e:Med programs

Awards and Honors:

2015	CSB2 Prize in Systems Biology awarded by the Council for Systems Biology in Boston, together with Merrimack Pharmaceuticals, Cambridge, MA, USA

2001	Selected by the Volkswagen Foundation in the program “Junior Research Groups at German Universities”
1998	European Beckman DNA Award for the study “Association States of the Activator Protein NtrC Determined by Analytical Ultracentrifugation”
1992	Post-doctoral Fellowship of the Boehringer Ingelheim Fonds, Stiftung für Medizinische Grundlagenforschung
1992	Otto Hahn Medal awarded by the Max Planck Society for the work on parallel-stranded DNA with double helical structure

Publications

1. Mallm JP, Iskar M, Ishaque N, Klett LC, Kugler SJ, Muino JM, Teif VB, Poos AM, Großmann S, Erdel F, Tavernari D, Koser SD, Schumacher S, Brors B, König R, Remondini D, Vingron M, Stilgenbauer S, Lichter P, Zapatka M, Mertens D, Rippe K. Linking aberrant chromatin features in chronic lymphocytic leukemia to deregulated transcription factor networks. **Mol Syst Biol**. 2019;15(5):e8339.
2. Rademacher A, Erdel F, Trojanowski J, Schumacher S, Rippe K. Real-time observation of light-controlled transcription in living cells. **J Cell Sci**. 2017;130(24):4213-24.
3. Caudron-Herger M, Pankert T, Seiler J, Nemeth A, Voit R, Grummt I, Rippe K. Alu element-containing RNAs maintain nucleolar structure and function. **EMBO J**. 2015;34(22):2758-71.
4. Osterwald S, Deeg KI, Chung I, Parisotto D, Wörz S, Rohr K, Erfle H, Rippe K. PML induces compaction, partial TRF2 depletion and DNA damage signaling at telomeres and promotes alternative lengthening of telomeres. **J Cell Sci**. 2015;128(10):1887-1900.
5. Müller-Ott K, Erdel F, Matveeva A, Hahn M, Mallm JP, Rademacher A, Marth C, Zhang Q, Kaltofen S, Schotta G, Höfer T, Rippe K. Specificity, propagation and memory of pericentric heterochromatin. **Mol Syst Bio**. 2014;10:746.
6. Baum M, Wachsmuth M, Erdel F, Rippe K. Retrieving the intracellular topology from multi-scale protein mobility mapping in living cells. **Nat Commun**. 2014;5:4494.
7. Teif VB, Vainshtein Y, Caudron-Herger M, Mallm JP, Marth C, Höfer T, Rippe K. Genome-wide nucleosome positioning during embryonic stem cell development. **Nat Struct Mol Biol**. 2012;19(11):1185-91.
8. Erdel F, Schubert T, Marth C, Längst G, Rippe K. Human ISWI chromatin-remodeling complexes sample nucleosomes via transient binding reactions and become immobilized at active sites. **Proc Natl Acad Sci U S A**. 2010;107(46):19873-78.
9. Rippe K, Schrader A, Riede P, Strohner R, Lehmann E, Längst G. DNA sequence- and conformation-directed positioning of nucleosomes by chromatin-remodeling complexes. **Proc Natl Acad Sci U S A**. 2007;104(40):15635-40.
10. Dekker J, Rippe K, Dekker M, Kleckner N. Capturing chromatin conformation. **Science**. 2002;295(5558):1306-11.