

## Übersicht bestätigte und bewertete Journalbeiträge mit PubMed-Links

PD Dr. rer. nat. Monika Reuter

### 2018

Tkhilaishvili T., Di Luca M., Abbandonato G., Maiolo E.M., Klatt A.-B., Reuter M., Möncke-Buchner E. & Trampuz A.

[Real-time assessment of bacteriophage T3-derived antimicrobial activity against planktonic and biofilm-embedded Escherichia coli by isothermal microcalorimetry.](#)

Res. Microbiol. 2018; in press, <https://doi.org/10.1016/j.resmic.2018.05.010>. IF: 2,549

Reuter M. & Krüger D.H.

[The nucleocapsid protein of hantaviruses: much more than a genome-wrapping protein.](#)

Virus Genes 2018;54:5-16. IF: 1,431

*Summe Impactpunkte für 2018: 3,980 Punkte*

### 2016

Möncke-Buchner E., Szczepok M., Bokelmann M., Heinemann P., Raftery M.J., Krüger D.H. & Reuter M.

[Sin Nombre hantavirus nucleocapsid protein exhibits a metal-dependent DNA-specific endonucleolytic activity.](#)

Virology 2016;496:67-76. IF: 3,353

*Summe Impactpunkte für 2016: 3,353 Punkte*

### 2013

Mackeldanz P., Alves J., Möncke-Buchner E., Wyszomirski K.H., Krüger D.H. & Reuter M.

[Functional consequences of mutating conserved SF2 helicase motifs in the Type III restriction endonuclease EcoP15I translocase domain.](#)

Biochimie 2013;95(4):817-23. IF: 3,123

*Summe Impactpunkte für 2013: 3,123 Punkte*

### 2012

Wyszomirski K.H., Curth U., Alves J., Mackeldanz P., Möncke-Buchner E., Schutkowski M., Krüger D.H. & Reuter M.

[Type III restriction endonuclease EcoP15I is a heterotrimeric complex containing one Res subunit with several DNA-binding regions and ATPase activity.](#)

Nucleic Acids Res. 2012;40(8):3610-22. IF: 8,278

*Summe Impactpunkte für 2012: 8,278 Punkte*

### 2009

Möncke-Buchner E., Rothenberg M., Reich S., Wagenführ K., Matsumura H., Terauchi R., Krüger D.H. & Reuter M.

[Functional characterization and modulation of the DNA cleavage efficiency of type III restriction endonuclease EcoP15I in its interaction with two sites in the DNA target.](#)

J. Mol. Biol. 2009;387(5):1309-19. **IF: 3,871**

Pingoud V., Wende W., Friedhoff P., Reuter M., Alves J., Jeltsch A., Mones L., Fuxreiter M. & Pingoud A.

[On the divalent metal ion dependence of DNA cleavage by restriction endonucleases of the EcoRI family.](#)

J. Mol. Biol. 2009;393(1):140-60. **IF: 3,871**

Raftery M.J., Möncke-Buchner E., Matsumura H., Giese T., Winkelmann A., Reuter M., Terauchi R., Schönrich G. & Krüger D.H.

[Unravelling the interaction of human cytomegalovirus with dendritic cells by using SuperSAGE.](#)

J. Gen. Virol. 2009;90(Pt 9):2221-33. **IF: 3,26**

Szczeppek M., Mackeldanz P., Möncke-Buchner E., Alves J., Krüger D.H. & Reuter M.

[Molecular analysis of restriction endonuclease EcoRII from Escherichia coli reveals precise regulation of its enzymatic activity by autoinhibition.](#)

Mol. Microbiol. 2009;72(4):1011-21. **IF: 5,361**

*Summe Impactpunkte für 2009: 16,363 Punkte*

## **2008**

Matsumura H., Reuter M., Krüger D.H., Winter P., Kahl G. & Terauchi R.

[SuperSAGE.](#)

Methods Mol. Biol. 2008;387:55-70. **IF: 0**

*Summe Impactpunkte für 2008: 0 Punkte*

## **2007**

Wagenführ K., Pieper S., Mackeldanz P., Linscheid M., Krüger D.H. & Reuter M.

[Structural domains in the type III restriction endonuclease EcoP15I: characterization by limited proteolysis, mass spectrometry and insertional mutagenesis.](#)

J. Mol. Biol. 2007;366(1):93-102. **IF: 4,472**

*Summe Impactpunkte für 2007: 4,472 Punkte*

## **2005**

Krüger D.H. & Reuter M.

[Reliable detection of DNA cytosine methylation at CpNpG sites using the engineered restriction enzyme EcoRII-C.](#)

Biotechniques 2005;38(6):855-6. **IF: 2,286**

Matsumura H., Ito A., Saitoh H., Winter P., Kahl G., Reuter M., Krüger D.H. & Terauchi R.  
[SuperSAGE](#).  
Cell. Microbiol. 2005;7(1):11-8. **IF: 6,333**

Matsumura, H., Reich, S., Reuter, M., Krüger, D.H., Winter, P., Kahl, G., Terauchi, R.:  
**SuperSAGE: A potent transcriptome tool for eukaryotic organisms.**  
In: Wang SM, (Hrsg.) SAGE - Current Technologies and Applications. 1. Aufl. Horizon  
Scientific Press;2005; S. 77-90.

*Summe Impactpunkte für 2005: 8,619 Punkte*

## **2004**

Möncke-Buchner E., Mackeldanz P., Krüger D.H. & Reuter M.  
[Overexpression and affinity chromatography purification of the Type III restriction endonuclease EcoP15I for use in transcriptome analysis.](#)  
J. Biotechnol. 2004;114(1-2):99-106. **IF: 2,323**

Reich S., Gössl I., Reuter M., Rabe J.P. & Krüger D.H.  
[Scanning force microscopy of DNA translocation by the Type III restriction enzyme EcoP15I.](#)  
J. Mol. Biol. 2004;341(2):337-43. **IF: 5,542**

Reuter, M., Mücke, M., Krüger, D.H.:  
**Structure and function of type IIE restriction endonucleases. From a plasmid that restricts phage replication to a new molecular DNA recognition mechanism.**  
In: Pingoud A, (Hrsg.) Restriction endonucleases: Structure, function and evolution. 1. Aufl. Springer-Verlag GmbH in Springer International Publishing AG. Part of Springer Nature;2004; S. 261-95.

Zhou X.E., Wang Y., Reuter M., Mücke M., Krüger D.H., Meehan E.J. & Chen L.  
[Crystal structure of type IIE restriction endonuclease EcoRII reveals an autoinhibition mechanism by a novel effector-binding fold.](#)  
J. Mol. Biol. 2004;335(1):307-19. **IF: 5,542**

*Summe Impactpunkte für 2004: 13,407 Punkte*

## **2003**

Matsumura H., Reich S., Ito A., Saitoh H., Kamoun S., Winter P., Kahl G., Reuter M., Krüger D.H. & Terauchi R.  
[Gene expression analysis of plant host-pathogen interactions by SuperSAGE.](#)  
Proc. Natl. Acad. Sci. USA 2003;100(26):15718-23. **IF: 10,272**

Mücke M., Krüger D.H. & Reuter M.  
[Diversity of type II restriction endonucleases that require two DNA recognition sites.](#)  
Nucleic Acids Res. 2003;31(21):6079-84. **IF: 6,575**

Zhou X.E., Wang Y., Reuter M., Mackeldanz P., Krüger D.H., Meehan E.J. & Chen L.  
[A single mutation of restriction endonuclease EcoRII led to a new crystal form that diffracts to 2.1 Å resolution.](#)

Acta Crystallogr. D. 2003;59(Pt 5):910-2. **IF: 2,208**

*Summe Impactpunkte für 2003: 19,055 Punkte*

## **2002**

Möncke-Buchner E., Reich S., Mücke M., Reuter M., Messer W., Wanker E.E. & Krüger D.H.

[Counting CAG repeats in the Huntington's disease gene by restriction endonuclease EcoP15I cleavage.](#)

Nucleic Acids Res. 2002;30(16):e83. **IF: 7,051**

Mücke M., Grelle G., Behlke J., Kraft R., Krüger D.H. & Reuter M.

[EcoRII: a restriction enzyme evolving recombination functions?](#)

EMBO J. 2002;21(19):5262-8. **IF: 10,698**

Mücke M., Pingoud V., Grelle G., Kraft R., Krüger D.H. & Reuter M.

[Asymmetric photocross-linking pattern of restriction endonuclease EcoRII to the DNA recognition sequence.](#)

J. Biol. Chem. 2002;277(16):14288-93. **IF: 6,696**

Reuter, M., Möncke-Buchner, E.:

**Analysis of protein-DNA interactions.**

In: Koch, J., Mahler, M., (Hrsg.) Springer Lab Manual 22: Peptide arrays on membrane supports. 1. Aufl. Springer-Verlag GmbH in Springer International Publishing AG. Part of Springer Nature;2002; S. 97-106.

Zhou E.X., Reuter M., Meehan E.J. & Chen L.

[A new crystal form of restriction endonuclease EcoRII that diffracts to 2.8 Å resolution.](#)

Acta Crystallogr. D. 2002;58(Pt 8):1343-5. **IF: 1,76**

*Summe Impactpunkte für 2002: 26,205 Punkte*

## **2001**

Mücke M., Reich S., Möncke-Buchner E., Reuter M. & Krüger D.H.

[DNA cleavage by type III restriction-modification enzyme EcoP15I is independent of spacer distance between two head to head oriented recognition sites.](#)

J. Mol. Biol. 2001;312(4):687-98. **IF: 5,826**

*Summe Impactpunkte für 2001: 5,826 Punkte*

## **2000**

Mücke M., Lurz R., Mackeldanz P., Behlke J., Krüger D.H. & Reuter M.

[Imaging DNA loops induced by restriction endonuclease EcoRII: A single amino acid](#)

[substitution uncouples target recognition from cooperative DNA interaction and cleavage.](#)  
J. Biol. Chem. 2000;275(39):30631-7. **IF: 7,368**

Ruscher K., Reuter M., Kupper D., Trendelenburg G., Dirnagl U. & Meisel A.  
[A fluorescence based non-radioactive electrophoretic mobility shift assay.](#)  
J. Biotechnol. 2000;78(2):163-70. **IF: 1,311**

*Summe Impactpunkte für 2000: 8,679 Punkte*

## **1999**

Krüger, D.H., Reuter, M.:  
**Host-controlled modification and restriction.**  
In: Webster, R.G., Granoff, A., eds, (Hrsg.) Encyclopedia of Virology, 2nd Edition. 2nd. Aufl. Academic Press of Elsevier;1999; S. 758-63.

Kupper D., Möncke-Buchner E., Reuter M. & Krüger D.H.  
[Oligonucleotide stimulators allow complete cleavage of agarose-embedded DNA by particular type II restriction endonucleases.](#)  
Anal. Biochem. 1999;272(2):275-7. **IF: 2,146**

Reuter M., Schneider-Mergener J., Kupper D., Meisel A., Mackeldanz P., Krüger D.H. & Schroeder C.  
[Regions of endonuclease EcoRII involved in DNA target recognition identified by membrane-bound peptide repertoires.](#)  
J. Biol. Chem. 1999;274(8):5213-21. **IF: 7,666**

*Summe Impactpunkte für 1999: 9,812 Punkte*

## **1998**

Kunz A., Mackeldanz P., Mücke M., Meisel A., Reuter M., Schroeder C. & Krüger D.H.  
[Mutual activation of two restriction endonucleases: interaction of EcoPI and EcoPI5.](#)  
Biol. Chem. 1998;379(4-5):617-20. **IF: 2,636**

Kunz A., Meisel A., Mackeldanz P., Reuter M. & Krüger D.H.  
[An experimental selection system to identify bacterial cells exhibiting a new DNA host specificity.](#)  
Biol. Chem. 1998;379(4-5):563-6. **IF: 2,636**

Reuter M., Kupper D., Meisel A., Schroeder C. & Krüger D.H.  
[Cooperative binding properties of restriction endonuclease EcoRII with DNA recognition sites.](#)  
J. Biol. Chem. 1998;273(14):8294-300. **IF: 7,199**

*Summe Impactpunkte für 1998: 12,471 Punkte*

## **1997**

Kupper D., Reuter M., Meisel A. & Krüger D.H.  
[Reliable detection of DNA CpG methylation profiles by the isoschizomers MspI/HpaII using oligonucleotide stimulators.](#)  
Biotechniques 1997;23(5):843-7. **IF: 1,913**

*Summe Impactpunkte für 1997: 1,913 Punkte*

## **1995**

Krüger D.H., Kupper D., Meisel A., Reuter M. & Schroeder C.  
[The significance of distance and orientation of restriction endonuclease recognition sites in viral DNA genomes.](#)  
FEMS Microbiol. Rev. 1995;17(1-2):177-84. **IF: 3,988**

Krüger D.H., Kupper D., Meisel A., Tierlich M., Reuter M. & Schroeder C.  
[Restriction endonucleases functionally interacting with two DNA sites.](#)  
Gene 1995;157(1-2):165-6. **IF: 2,16**

Kupper D., Reuter M. & Krüger D.H.  
[Overproduction of His-tagged EcoRII restriction endonuclease and terminally deleted mutant proteins.](#)  
Gene 1995;157(1-2):97-8. **IF: 2,16**

Kupper D., Reuter M., Mackeldanz P., Meisel A., Alves J., Schroeder C. & Krüger D.H.  
[Hyperexpressed EcoRII renatured from inclusion bodies and native enzyme both exhibit essential cooperativity with two DNA sites.](#)  
Protein Expr. Purific. 1995;6(1):1-9. **IF: 1,497**

*Summe Impactpunkte für 1995: 9,805 Punkte*

## **1993**

Reuter M., Kupper D., Pein C.D., Petrusyte M., Siksnyš V., Frey B. & Krüger D.H.  
[Use of specific oligonucleotide duplexes to stimulate cleavage of refractory DNA sites by restriction endonucleases.](#)  
Anal. Biochem. 1993;209(2):232-7. **IF: 1,996**

*Summe Impactpunkte für 1993: 1,996 Punkte*

## **1991**

Pein C.D., Reuter M., Meisel A., Cech D. & Krüger D.H.  
[Activation of restriction endonuclease EcoRII does not depend on the cleavage of stimulator DNA.](#)  
Nucleic Acids Res. 1991;19(19):5139-42. **IF: 4,235**

*Summe Impactpunkte für 1991: 4,235 Punkte*

## **1990**

Krüger, D.H., Bickle, T.A., Reuter, M., Pein, C.D., Schroeder, C.:  
**DNA methylation and restriction processes in Escherichia coli: Insights by use of bacterial viruses T3 and T7.**  
In: Clawson GA et al., (Hrsg.) Nucleic acids methylation. 1. Aufl. John Wiley & Sons Inc; 1990; S. 113-24.

Krüger D.H., Prösch S., Reuter M. & Goebel W.  
[Cloning of the resistant EcoRII recognition site of phage T7 into an EcoRII-sensitive plasmid makes the site susceptible to the restriction enzyme.](#)  
J. Basic Microbiol. 1990;30(9):679-83. **IF: 0,441**

Reuter M., Pein C.D., Butkus V. & Krüger D.H.  
[An improved method for the detection of Dcm methylation in DNA molecules.](#)  
Gene 1990;95(1):161-2. **IF: 2,16**

*Summe Impactpunkte für 1990: 2,601 Punkte*

## **1989**

Krüger D.H., Schroeder C., Santibanez-Koref M. & Reuter M.  
[Avoidance of DNA methylation: A virus-encoded methylase inhibitor and evidence for counterselection of methylase recognition sites in viral genomes.](#)  
Cell. Biophys. 1989;15(1-2):87-95. **IF: 0**

Pein C.D., Reuter M., Cech D. & Krüger D.H.  
[Oligonucleotide duplexes containing CC\(A/T\)GG stimulate cleavage of refractory DNA by restriction endonuclease EcoRII.](#)  
FEBS Lett. 1989;245(1-2):141-4. **IF: 3,504**

*Summe Impactpunkte für 1989: 3,504 Punkte*

## **1988**

Krüger D.H., Barcak G.J., Reuter M. & Smith H.O.  
[EcoRII can be activated to cleave refractory DNA recognition sites.](#)  
Nucleic Acids Res. 1988;16(9):3997-4008. **IF: 4,235**

Krüger D.H., Schroeder C., Reuter M., Bickle T.A., Bogdarina I.G. & Buryanov Y.I.  
[Use of bacterial virus T7 as a tool for the study of DNA methylation.](#)  
Gene 1988;74(1):85-7. **IF: 2,16**

*Summe Impactpunkte für 1988: 6,395 Punkte*

## **1987**

Gachechiladze K.K., Krüger D.H., Balardshishvili N.S., Reuter M. & Rosenthal H.A. & Chanishvili T.G.

[\[Host-dependent modifications of bacteriophage T3 affecting its adsorption ability: Serological characterization of the phage.\]](#)

Molec. Genet. Microbiol. Virusol. 1987 (6):38-42. **IF: 0**

*Summe Impactpunkte für 1987: 0 Punkte*

## **1985**

Krüger D.H., Schroeder C., Reuter M., Bogdarina I.G., Buryanov Y.I. & Bickle T.A.  
[DNA methylation of bacterial viruses T3 and T7 by different DNA methylases in Escherichia coli K12 cells.](#)

Eur. J. Biochem. 1985;150(2):323-30. **IF: 3,136**

*Summe Impactpunkte für 1985: 3,136 Punkte*

## **1984**

Schroeder C., Reuter M. & Krüger D.H.

[DNA methylation of T3 virus ocr+ and ocr- strains in Escherichia coli cells harbouring the EcoK DNA host specificity system.](#)

Biomed. Biochim. Acta 1984;43(3):K1-5. **IF: 0**

*Summe Impactpunkte für 1984: 0 Punkte*

## **1983**

Krüger D.H., Hansen S. & Reuter M.

[The ocr+ gene function of bacteriophages T3 and T7 counteracts the Salmonella typhimurium DNA restriction systems SA and SB.](#)

J. Virol. 1983;45(3):1147-9. **IF: 6,033**

Krüger D.H., Reuter M., Schroeder C., Glatman L.I. & Chernin L.S.

[Restriction of bacteriophage T3 and T7 ocr+ strains by the type II restriction endonuclease EcoRV.](#)

Mol. Gen. Genet. 1983;190(2):349-51. **IF: 2,976**

*Summe Impactpunkte für 1983: 9,009 Punkte*

## **1982**

Krüger D.H., Reuter M., Hansen S. & Schroeder C.

[Influence of phage T3 and T7 gene functions on a type III\(EcoP1\) DNA restriction-modification system in vivo.](#)

Mol. Gen. Genet. 1982;185(3):457-61. **IF: 2,976**

*Summe Impactpunkte für 1982: 2,976 Punkte*

**1980**

Reuter M., Krüger D.H., Scholz D. & Rosenthal H.A.

[\[Protection of foreign DNA against host-controlled restriction in bacterial cells. II. Protection of pSF2124 plasmid by the gene function of bacteriophages T3 and T7\].](#)

Z. Allg. Mikrobiol. 1980;20(5):345-54. **IF: 0**

*Summe Impactpunkte für 1980: 0 Punkte*

**Gesamtsumme: 189,213 Impactpunkte aus 52 Publikationen**