

## List of publications

*Peter B. Becker*

- 133\* Chioda, M. & Becker, P.B. (2010)  
Soft skills turned into hard facts: nucleosome remodelling at developmental switches.  
*Heredity* in press
- 132\* Fauth, T., Müller-Planitz, F., König, C., Straub, T. & Becker, P.B. (2010)  
The DNA binding CXC domain of MSL2 is required for faithful targeting the Dosage Compensation Complex to the X chromosome.  
*Nucleic Acids Res.* Feb 5. [Epub ahead of print]
- 131\* Grimaud, C. & Becker, P.B. & (2009)  
The dosage compensation complex shapes the conformation of the X chromosome in *Drosophila*  
*Genes & Development* **23**, 2490-2495
- 130\* Siriaco, G., Deuring, R., Chioda, M., Becker, P.B. & Tamkun, J. (2009)  
*Drosophila* ISWI regulates the association of histone H1 with interphase chromosomes in vivo  
*Genetics* **182**, 661 - 669
- 129\* Bartkuhn, M., Straub, T., Herold, M., Herrmann, M., Rathke, C., Saumweber, H., Gilfillan, G.D., Becker, P.B. & Renkawitz, R. (2009)  
Active promoters and insulators are marked by centrosomal protein 190  
*EMBO J* **28**, 877 - 888
- 128\* Straub, T., Grimaud, C., Gilfillan, G.D., Mitterweger, A. & Becker, P.B. (2008)  
The chromosomal high affinity sites for the *Drosophila* dosage compensation complex  
*PLoS Genet* **4**, e1000302.
- 127\* Bonaldi, T., Straub, T., Kumar, C., Cox, J., Becker, P.B. & Mann, M. (2008)  
Combined use of RNAi and quantitative proteomics to study gene function in *Drosophila*  
*Mol Cell* **31**, 762 - 772.
- 126\* Straub, T. & Becker, P.B. (2008)  
DNA sequence and the organization of chromosomal domains  
*Curr Op Genet Dev* **18**, 175-180.
- 125\* Maier, V.K., Chioda, M. & Becker, P.B. (2008)  
ATP-dependent chromatosome remodelling  
*Biol Chem* **389**, 345-352.
- 124\* Izzo, A., Regnard, C., Morales, V., Kremmer, E. & Becker, P.B. (2008)  
Structure-function analysis of the RNA helicase maleless  
*Nucleic Acids Res* **36**, 950-962.
- 123\* Maier, V.K., Chioda, M., Rhodes, D. & Becker, P.B. (2008)  
ACF catalyzes chromatosome movements in chromatin fibres  
*EMBO J* **27**, 827-839.
- 122\* Nightingale, K.P., Baumann, M., Eberharter, A., Mamais, A., Becker, P.B. & Boyes, J., (2007)  
Acetylation increases access of remodelling complexes to their nucleosome targets to enhance initiation of V(D)J recombination  
*Nucleic Acids Res* **35**, 6311-6321.
- 121\* Ferreira, R., Chioda, M., Eberharter, A., Bonaldi, T., Imhof, A., & Becker, P.B. (2007)  
Site-specific acetylation of ISWI by Gcn5  
*BMC Molecular Biology* **8**:73.

\* peer reviewed articles

- 120\* Gilfillan G. D., König C., Dahlsveen, I.K., Prakoura, N., Lamm, T., Fauth T. & Becker P.B. (2007)  
Cumulative contributions of weak DNA determinants to targeting the *Drosophila* dosage compensation complex  
*Nucleic Acids Res* **35**, 3561-3572.
- 119\* Straub T. & Becker, P.B. (2007)  
Dosage compensation: the beginning and end of generalization  
*Nature Review Genetics* **8**, 47-57.
- 118 Becker, P.B. (2006)  
A finger on the mark (News & Views)  
*Nature* **442**, 31-32.
- 117 Becker P.B. (2006)  
Dosis Kompensation im Profil: Lebenswichtige Feineinstellung der Transkription  
*Biospektrum* **2/06**, 168-170.
- 116\* Varga-Weisz, P.D. & Becker, P.B. (2006)  
Regulation of Higher Order Chromatin Structures by Nucleosome Remodelling Factors  
*Curr Op Genet Dev* **16**, 151-156.
- 115\* Gilfillan G.D., Straub T., de Wit E., Greil F., Lamm R., van Steensel B. & Becker, P.B. (2006)  
Chromosome-wide gene-specific targeting of the *Drosophila* Dosage Compensation Complex  
*Genes & Development* **20**, 857-870.
- 114 Becker P.B. (2006)  
Wolfram Hürz, 1944 – 2005 (Obituary)  
*Cell* **124**, 13-14.
- 113\* Dahlsveen, I.K., Gilfillan G.D., Shelest, V.I., Lamm, R. & Becker, P.B. (2006)  
Targeting Determinants of Dosage Compensation in *Drosophila*  
*PLoS Genetics* **2**, e5.
- 112 Rupp A.W. & Becker, P.B. (2005)  
Gene Regulation by Histone H1: Novel Links to DNA Methylation. (Preview)  
*Cell* **123**, 1178-1179.
- 111\* Hartlepp, K.F., Fernandez-Tornero, C., Eberharder, A., Grüne, T., Müller, C. & Becker, P.B. (2005)  
The histone fold subunits of the Chromatin Accessibility Complex facilitate nucleosome sliding through dynamic DNA interactions.  
*Mol Cell Biol* **25**, 9886-9896.
- 110 Becker, P. B. (2005)  
Nucleosome remodelers on track. (News and Views)  
*Nature Struct Mol Biol* **12**, 732 – 733.
- 109\* Straub, T., Gilfillan, G. & Becker, P.B. (2005)  
The *Drosophila* MSL complex activates the transcription of target genes.  
*Genes & Development* **19**, 2284-2288.
- 108\* Straub, T., Neumann, M.F., Prestel, M., Kremmer., E., Kaether, C., Haass, C. & Becker, P.B. (2005)  
Stable chromosomal association of MSL2 defines a dosage compensated nuclear compartment.  
*Chromosoma* **114**, 352 – 364.

- 107\* Eberharter, A., Ferreira, R. & Becker, P.B. (2005)  
Dynamic Chromatin: Concerted Nucleosome Remodelling and Acetylation.  
*Biol Chem* **386**, 745 – 75.
- 106\* Straub, T., Dahlsveen, I.K. & Becker, P.B. (2005)  
Dosage Compensation in Flies: Mechanism, Models, Mystery.  
*FEBS letters* **579**, 3258-3263.
- 105\* Morales, V., Regnard, C., Izzo, A., Vetter, I. & Becker, P.B. (2005)  
The MRG domain mediates the functional integration of MSL3 into the dosage compensation complex.  
*Mol Cell Biol* **25**, 5947-5954.
- 104 Becker, P.B. (2004)  
The Chromatin Accessibility Complex – chromatin dynamics through nucleosome sliding  
*GSH Symp Quant Biol* **69**, 281-287.
- 103\* Eberharter, A., Vetter, I., Ferreira, R. & Becker, P.B. (2004)  
Acfl improves the effectiveness of nucleosome mobilization by ISWI through PHD-histone contacts.  
*EMBO J* **23**, 4029-4039.
- 102.\* Morales, V., Straub, T., Neumann, M. F., Mengus, G., Akhtar, A. & Becker, P.B. (2004)  
Functional integration of the histone acetyltransferase MDF into the dosage compensation complex.  
*EMBO J* **23**, 2258-2268.
- 101.\* Gilfillan, G., Dahlsveen, I. & Becker, P.B. (2004)  
Lifting a chromosome: Dosage Compensation in Drosophila  
*FEBS Letters* **567**, 8-14.
- 100.\* Ragvin, A., Valvatne, H., Erdal, S., Arskog, V., Tufteland, K.R., Breen, K., Dyan, A.M., Eberharter, A., Gibson, T.J.,  
Becker, P.B. & Aasland R. (2004)  
Nucleosome binding by the bromodomain and PHD finger of the transcriptional cofactor p300.  
*J Mol Biol* **337**, 773-778.
- 99 Eberharter, A. & Becker, P. B. (2004)  
ATP-dependent nucleosome remodelling: factors and function  
*J Cell Sci* **117**, 3707-371.
98. Akhtar, A. & Becker, P.B. (2004)  
MDF, an acetyl transferase involved in dosage compensation in Drosophila uses a CCHC finger for substrate recognition.  
In: Zinc Finger Proteins. S. Iuchi & N. Kuldell (eds.), Landes Bioscience, **Chapter 33**.
- 97.\* Chin, J., Längst, G., Becker, P.B. & Widom, J. (2004)  
Fluorescence anisotropy assays for analysis of ISWI-DNA and ISWI-nucleosome interactions.  
*Methods in Enzymology* **376**, 3-16.
- 96\* Längst, G. & Becker, P.B. (2004)  
Nucleosome remodeling - one mechanism, many phenomena?  
*Biochimica et Biophysica Acta* **1677**, 58-63.
- 95.\* Eberharter, A., Längst, G. & Becker, P.B. (2004)  
A nucleosome sliding assay for chromatin remodeling factors.  
*Methods in Enzymology* **377**, 344-352.
- 94.\* Strohner, R., Németh, A., Nightingale, K.P., Grummt, I., Becker, P.B. & Längst, G. (2004)  
Recruitment of the nucleolar remodeling complex NoRC established rDNA silencing  
*Mol Cell Biol* **24**, 1791-1798.
- 93.\* Brehm, A., Tufteland, K.R., Aasland, R. & Becker, P.B. (2004)  
The many colours of chromodomains.

\* peer reviewed articles

*BioEssays* **26**, 133-140.

- 92.\* Grüne, T., Brzeski, J., Eberharter, A., Clapier, C.R., Corona, D.F.V., Becker, P.B.\* & Müller, C.W.\* (2003) \*  
*corresponding author*  
Crystal structure and functional analysis of the nucleosome recognition module of the remodeling factor ISWI.  
*Molecular Cell*, **12**, 449-460.
91. Straub, T. & Becker P.B. (2003)  
Chromatinstruktur und Krebsentstehung.  
*Forum* **1-03**, 21-22.
- 90.\* Park, Y., Mengus, G., Bai, X., Kageyama, Y., Meller, V.H., Becker, P.B. & Kuroda, M.I. (2003).  
Sequence-specific targeting of *Drosophila* rox genes by the MSL dosage compensation complex.  
*Molecular Cell* **11**, 977-986.
- 89.\* Sandaltzopoulos, R. & Becker, P.B. (2003)  
Analysis of activator-dependent transcription reinitiation *in vitro*.  
*Methods in Enzymology* **370**, 487-504.
- 88.\* Bonaldi, T., Längst, G., Strohner, R., Becker, P.B.\* & Bianchi, M.E. (2002)  
The DNA chaperone function of HMGBI facilitates ACF-dependent nucleosome sliding.  
*EMBO J* **21**, 6865-6873.  
*\* corresponding author*
- 87.\* Becker, P.B. (2002)  
New EMBO Member Review. Nucleosome sliding: facts and fiction.  
*EMBO J* **21**, 4749-4753.
- 86.\* Bilbao-Cortés, D., Hetzer, M., Längst, G., Becker, P.B. & Mattaj, J.W. (2002)  
Ran binds to chromatin by two distinct mechanisms.  
*Curr Bio.* **12**, 1151-1156.
- 85.\* Bouazoune, K., Mitterweger, A., Längst, G., Imhof, A., Akhtar, A., Becker, P.B. & Brehm, A. (2002)  
The dMi-2 chromodomains are DNA binding modules important for ATP-dependent nucleosome mobilisation.  
*EMBO J* **21**, 2430-2440.
- 84.\* Corona, D.F.V., Clapier, C.R., Becker, P.B. & Tamkun, J.W. (2002)  
Modulation of ISWI function by site-specific histone acetylation.  
*EMBO Reports* **3**, 242-247.
- 83.\* Eberharter, A. & Becker, P.B. (2002)  
Histone acetylation, a switch between repressive and permissive chromatin.  
*EMBO Reports* **3**, 224-229.
- 82.\* Becker, P.B. & Hörz, W. (2002)  
ATP-dependent nucleosome remodeling.  
*Ann Rev Biochem* **71**, 247-273.
- 81.\* Clapier, C., Nightingale, K.P. & Becker, P.B. (2002)  
A critical epitope for substrate recognition by the nucleosome remodeling ATPase ISWI.  
*Nucleic Acids Res* **30**, 649-655.
- 80.\* Murawsky, C.M., Brehm, A., Lowe, N., Badenhorst, P., Müller, J., Becker, P.B. & Travers, A. A. (2001)  
Tramtrack69 interacts with the dMi-2 ATPase component of the *Drosophila* NuRD chromatin remodeling complex.  
*EMBO Reports* **2**, 1089-1094.
- 79.\* Längst, G. & Becker, P.B. (2001)  
ISWI induces nucleosome sliding on nicked DNA.  
*Molecular Cell* **8**, 1085-1092.

- 78.\* Czermin, B., Schotta, G., Hülsmann, B.B., Brehm, A., Becker, P.B., Reuter, G. & Imhof, A. (2001)  
Physical and functional association of SU(VAR)3-9 and HDAC1 in Drosophila.  
*EMBO Reports* **2**, 915-919.
- 77.\* Ner, S.S., Blank, T., Perez-Paralle, M.L., Grigliatti, T.A., Becker, P.B. & Travers, A. A. (2001)  
HMG-D and histone H1 interplay during chromatin assembly and early embryogenesis.  
*J Biol Chem* **276**, 37569-37576.
- 76.\* Georgieva, S., Nabirochkina, E., Dilworth, F. J., Eickhoff, H., Becker, P.B., Tora, L., Georgiev, P. & Soldatov, A. (2001)  
The Novel Transcription Factor e(y)2 Interacts with TAF(II)40 and Potentiates Transcription Activation on Chromatin Templates.  
*Mol Cell Biol* **21**, 5223-5231.
- 75.\* Eberharter, A., Ferrari, S., Längst, G., Straub, T., Imhof, A., Varga-Weisz, P., Wilm, M. & Becker, P.B. (2001)  
Acfl, the largest subunit of CHRAC, regulates ISWI-induced nucleosome remodelling.  
*EMBO J* **20**, 3781-3788.
- 74.\* Längst, G. & Becker, P.B. (2001)  
Nucleosome mobilization and positioning by ISWI-containing chromatin remodeling factors.  
*J Cell Sci* **114**, 2561-2568.
- 73.\* Kageyama, Y., Mengus, G., Gilfillan, G., Kennedy, H.G., Stuckenholz, C., Kelley, R.L., Becker, P.B., & Kuroda, M.I. (2001)  
Association and spreading of the Drosophila dosage compensation complex from a discrete roX1 chromatin entry site.  
*EMBO J* **20**, 2236-2245.
- 72.\* Leach, K.M., Nightingale, K.P., Igarashi, K., Levings, P., Engel, J.D., Becker, P.B. & Bungert, J. (2001)  
Reconstitution of human  $\beta$ -globin locus control region hypersensitive sites in the absence of chromatin assembly.  
*Mol Cell Biol* **8**, 2629-2640.
71. Längst, G. & Becker, P.B. (2001)  
Zwischen Archivierung und Aktivierung: Informationsmanagement im Zellkern.  
*Einsichten* **19**, 6-9.
- 70.\* Akhtar, A. & Becker, P.B. (2001)  
The histone H4 acetyltransferase MOF uses a C<sub>2</sub>HC zinc finger for substrate recognition.  
*EMBO Reports* **2**, 113-118.
69. Imhof, A. & Becker, P.B. (2001)  
Modifications of the Histone N-terminal domains - Evidence for an 'epigenetic code' ?  
*Molecular Biotechnology* **17**, 1-13.
68. Wu, C., Becker, P.B. & Tsukiyama T. (2001)  
ATP-dependent chromatin remodeling by the ISWI complexes.  
In "Chromatin Structure and Gene Expression: Frontiers of Molecular Biology", 2nd Edition, p 114-134. Elgin, S.C.R. and Workman, J.L. (Eds.). Oxford University Press
- 67.\* Clapier, C., Längst, G., Corona, D.F.V., Becker, P.B.\* & Nightingale, K.P. (2001)  
Critical role for the histone H4 N-terminus in nucleosome remodeling by ISWI.  
*Mol.Cell.Biol.* **21**, 875-883.
- 66.\* Akhtar, A., Zink, D. & Becker, P.B. (2000)  
Chromodomains are protein-RNA interaction modules.  
*Nature* **407**, 405-409.
- 65.\* Boyer, L.A., Logie, C., Bonte, E., Becker, P.B., Wade, P.A., Wolffe, A.P., Wu, C., Imbalzano, A.N. & Peterson C.L. (2000)  
Functional delineation of three groups of the ATP-dependent family of chromatin remodeling enzymes.  
*J Biol Chem* **275**, 18864-18870.

64. Sandaltzopoulos, R. & Becker, P.B. (2000)  
Solid phase DNase I footprinting. in: "Protein-DNA interactions: A practical approach",  
Travers, A.A. & Buckle, M. (eds), Oxford University Press  
*Nucl Acids and Biol Chemistry* **11**, 151-159.
63. \* Brehm, A., Längst, G., Kehle, J., Clapier, C.R., Imhof, A., Eberharder, A., Müller, J. & Becker, P.B. (2000)  
dMi-2 and ISWI chromatin remodelling factors two classes of chromatin remodeling factors have distinct  
nucleosome binding and mobilization properties.  
*EMBO J* **16**, 4332-4341.
62. \* Poot, R.A., Dellaire, G., Hülsmann, B., Corona, D.F.V., Becker, P.B., Bickmore W.A & Varga-Weisz, P.D. (2000)  
HuCHRAC, a new human ISWI chromatin-remodelling complex, contains haCfl and two novel histone-fold proteins.  
*EMBO J* **19**, 3377-3387.
61. \* Corona, D.F.V., Eberharder, A., Budde, A., Deuring, R., Ferrari, S., Varga-Weisz, P., Wilm, M., Tamkun, J. & Becker, P.B. (2000)  
Two histone fold proteins, CHRAC-14 and CHRAC-16, are developmentally regulated subunits of chromatin  
accessibility complex (CHRAC).  
*EMBO J* **19**, 3049-3059.
60. \* Akhtar, A. & Becker, P.B. (2000)  
Activation of transcription through histone H4 acetylation by MOF, an acetyl  
transferase essential for dosage compensation in Drosophila.  
*Molecular Cell* **5**, 367-375.
59. \* Moggs, J.G., Grandi, P., Quivy, J.-P., Jonsson, Z.O., Hübscher, U., Becker, P.B. & Almouzni, G. (2000)  
A CAF-1-PCNA-mediated chromatin assembly pathway triggered by sensing DNA damage.  
*Mol Cell Biol* **20** 1206-1218.
58. \* Breiling, A., Bonte, E., Ferrari, S., Becker, P.B., & Paro, R. (1999)  
The Drosophila Polycomb Protein Interacts with Nucleosomal Core Particles In Vitro via its Repression Domain.  
*Mol Cell Biol* **19**, 8451-8460.
57. \* Gebauer, F., Corona, D., Preiss, T., Becker, P.B. & Hentze, M.W. (1999)  
cooperative silencing via the 5' and 3' UTRs of msl-2 mRNA is independent of the poly(A) tail.  
*EMBO J* **18**, 6146-6154.
56. \* Längst, G., Bonte, E.J., Corona, D.E.V & Becker P.B. (1999).  
Nucleosome movement by CHRAC and ISWI without disruption or trans-displacement of the histone octamer.  
*Cell* **97**, 843-852.
55. \* Di Croce, L., Koop, R., Venditti, P., Westphal, H.M., Nightingale, K.P., Corona, D.F.V., Becker, P.B. & Beato, M. (1999).  
Two-step synergism between the progesterone receptor and the DNA-binding domain of nuclear factor 1 on MMTV  
minichromosomes.  
*Molecular Cell* **4**, 45-54.
54. Bonte, E. & Becker, P.B. (1999).  
Preparation of chromatin assembly extracts from preblastoderm Drosophila embryos.  
in : *Chromatin Protocols*, Becker. P.B. (Ed), Humana Press, Totowa, USA, 187-194.
53. Krajewski, W.A. & Becker, P.B. (1999).  
Reconstitution and analysis of hyperacetylated chromatin.  
in : *Chromatin Protocols*, Becker. P.B. (Ed), Humana Press, Totowa, USA, 207-218.
52. Sandaltzopoulos, R. & Becker, P.B. (1999).  
A solid phase approach for the analysis of reconstituted chromatin.  
in : *Chromatin Protocols*, Becker. P.B. (Ed), Humana Press, Totowa, USA, 195-206.
51. \* Corona, D.F.V., Längst, G., Clapier, C.R. Bonte, E.J., G., Ferrari, S., Tamkun, J. & Becker, P.B. (1999).  
ISWI is an ATP-dependent nucleosome remodeling factor.

*Molecular Cell* **3**, 239-245.

50. Varga-Weisz, P.D., Bonte, E.J. & Becker, P.B. (1999)  
Analysis of modulators of chromatin structure in *Drosophila*.  
*Methods Enzymology* **304**, 742-754.
- 49 \* Agianian, B., Leonard, K., Bonte, E., Van der Zandt, H., Becker, P.B. & Tucker, P. (1999).  
The glutamine-rich domain of the *Drosophila* GAGA factor is necessary for amyloid fibre formation in vitro, but not for chromatin remodelling.  
*J Mol Biol* **285**, 527-544.
- Patent** Hörber, H. & Becker, P.B. (2/1999)  
Verfahren zum Nachweis von Analyten in einer Meßprobe sowie Meßträger hierfür  
Deutsche Patentanmeldung Nr. 199 04 288.8.
- Patent** Gebauer, F. Corona, D.E.V., Becker, P.B. & Hentze, M. (2/ 1999)  
Translation System  
UK Patentanmeldung Nr. GB 9904004.0.
48. Nightingale, K.P. & Becker, P.B. (1998)  
Structural and functional analysis of chromatin assembled from defined histones.  
*Methods* **15**, 343-353.
47. \* Venditti, P., Di Croce, L., Kauer, M., Blank, T.A., Becker, P.B. & Beato, M. (1998)  
Assembly of the MMTV promoter minichromosomes with positioned nucleosomes precludes NFI access but not restriction enzyme cleavage.  
*Nucleic Acids Res* **26**, 3657-3666.
46. \* Längst, G., Becker, P.B. & Grummt, I. (1998)  
TTF-I determines the chromatin architecture of the active rDNA promoter.  
*EMBO J* **17**, 3135-3145.
45. \* Alexiadis, V., Varga-Weisz, P.D., Bonte, E., Becker, P.B., Gruss, C. (1998)  
In vitro chromatin remodelling by Chromatin Accessibility Complex (CHRAC) at the SV40 origin of DNA replication.  
*EMBO J* **17**, 3428-3438.
44. \* Karetsov, Z., Sandaltzopoulos, R., Frangou-Lazaridis, M., Lai, C., Tsolas, O., Becker, P.B. and Papamarcaki, T. (1998)  
Prothymosin  $\alpha$  modulates the interaction of histone H1 with chromatin.  
*Nucleic Acids Res* **26**, 3111-3118.
43. Varga-Weisz, P.D. & Becker, P.B. (1998)  
Chromatin-remodeling factors: machines that regulate?  
*Curr. Op. in Cell Biol.*, **10**, 346-353.
42. \* Nightingale, K.P., Wellinger, R.E., Sogo, J.M. & Becker, P.B. (1998)  
Histone acetylation facilitates RNA polymerase II transcription of the *Drosophila* hsp26 gene in chromatin.  
*EMBO J* **17**, 2865-2876.
41. \* Krajewski, W.A. & Becker, P.B. (1998)  
Reconstitution of hyperacetylated, DNase I-sensitive chromatin characterized by high conformational flexibility of nucleosomal DNA.  
*Proc Natl Acad Sci USA* **95**, 1540-1545.
40. \* Sandaltzopoulos, R. & Becker, P.B. (1998)  
Heat shock factor increases the reinitiation rate from potentiated chromatin templates.  
*Mol Cell Biol* **18**, 361-367.
39. \* Gaillard, P., Moggs, J.G., Roche, D.M., Quivy, J.-P., Becker, P.B., Wood, R.D. & Almouzni, G. (1997)  
A nucleosome assembly pathway tightly linked to DNA repair.  
*EMBO J* **16**, 6281-6289.

\* peer reviewed articles

38. Becker, P.B. (1997)  
DNA-transcription factor interactions in the context of chromatin.  
in "Transcription factors in Eukaryotes", Papavassiliou, A. (ed.), Springer Verlag Heidelberg, 336-346.
37. \* Varga-Weisz, P., Wilm, M. Bonte, E., Dumas, K., Mann, M. & Becker, P.B. (1997)  
Chromatin-remodelling factor CHRAC contains the ATPases ISWI and topoisomerase II.  
*Nature* **388**, 598-602.
36. Sandaltzopoulos, R. & Becker, P.B. (1997)  
Antirepression, potentiation and activation of promoters in reconstituted chromatin.  
in "Mechanisms of transcription", Nucleic Acids & Molecular Biology **11**, 291-308.  
F. Eckstein and D. Lilley (eds). Springer Verlag, Heidelberg.
35. Blank, T.A., Sandaltzopoulos, R. & Becker, P.B. (1997)  
Biochemical analysis of chromatin structure and function using *Drosophila* embryo extracts.  
*Methods* **12**, 28-35.
34. \* Längst, G., Blank, T.A., Becker, P.B. & Grummt, I. (1997)  
RNA polymerase I transcription on nucleosomal templates: the transcription termination factor TTF-I induces chromatin remodeling and relieves transcriptional repression.  
*EMBO J* **16**, 760-768.
33. \* Rhee, K., Stier, G., Becker, P.B., Suck, D. & Sandaltzopoulos, R. (1997)  
The bifunctional protein DCoH modulates interactions of the homeodomain transcription factor HNF1 with nucleic acids.  
*J Mol Biol* **265**, 20-29.
32. \* Ragnhildstveit, E., Fjose, A., Becker, P.B. & Quivy, J.-P. (1997)  
Solid phase technology improves coupled gel shift/footprinting analysis.  
*Nucleic Acids Res* **25**, 453-454.
- Patent 1997:** Sandaltzopoulos, R. & Becker, P.B.  
Verfahren zur Immobilisierung von Biopolymeren  
Deutsche Patentanmeldung Nr. 196 02 300.9  
Rechte veräußert an Dynal, Oslo.
31. \* Heald, R., Tournebize, R., Blank, T., Sandaltzopoulos, R., Becker, P.B., Hyman, T. & Karsenti, E. (1996)  
Self-organisation of microtubules into bipolar spindels around artificial chromosomes in *Xenopus* egg extracts.  
*Nature* **382**, 420-425.
30. Quivy, J.-P. & Becker, P.B. (1996)  
Genomic Footprinting of *Drosophila* embryo nuclei by Linker Tag Selection LM-PCR.  
*Methods* **11**, 171-179.
29. \* Blank, T.A. & Becker, P.B. (1996)  
The effect of nucleosome phasing sequences and DNA topology on nucleosome spacing.  
*J Mol Biol* **260**, 1-8.
28. \* Quivy, J.-P. & Becker, P.B. (1996)  
The architecture of the heat-inducible *Drosophila* hsp27 promoter in nuclei.  
*J Mol Biol* **256**, 249-263.
27. Sandaltzopoulos, R. & Becker, P.B. (1995)  
Solid Phase DNase I footprinting.  
*Biochemica* **4**, 23-25.
26. \* Blank, T.A. & Becker, P.B. (1995)  
Electrostatic mechanism of nucleosome spacing.  
*J Mol Biol* **252**, 305-313.



25. Varga-Weisz, P.D. & Becker, P.B. (1995).  
Transcription factor-mediated chromatin remodelling: Mechanisms and Models  
*FEBS letters* **369**, 118-121.
24. \* Sandaltzopoulos, R., Mitchelmore, C., Bonte, E., Wall, G. & Becker, P.B. (1995)  
Dual regulation of the *Drosophila* hsp26 promoter in vitro.  
*Nucleic Acids Res* **13**, 2479-2487.
23. Becker, P.B. (1995)  
*Drosophila* chromatin and transcription  
*Seminars in Cell Biology* **6**, 185-190.
22. Quivy, J.-P. & Becker, P.B. (1995).  
Determination of unknown genomic sequences without cloning.  
*In Methods in Mol. Biology*, **65**, PCR sequencing protocols, Rapley, R. (ed)  
Humana Press, Totowa, p 119-131.
21. Sandaltzopoulos, R., Quivy, J.-P., & Becker, P.B. (1995).  
Analysis of protein/DNA interactions by solid phase footprinting.  
*Meth Mol and Cell Bio***5**,176-181.
20. \* Varga-Weisz, P.D., Blank, T.A. & Becker, P.B. (1995).  
Energy-dependent chromatin accessibility and nucleosome mobility in a cell-free system.  
*EMBO J***14**, 2209-2216.
19. \* Wall, G., Varga-Weisz, P.D., Sandaltzopoulos, R., & Becker, P.B. (1995).  
Chromatin remodeling by GAGA Factor and Heat Shock Factor at the hypersensitive *Drosophila* hsp26 promoter in vitro.  
*EMBO J***14**, 1727-1736.
18. \* Sandaltzopoulos, R., Ansorge, W., Becker, P.B. & Voss, H. (1994).  
Non-radioactive, solid phase DNase I footprints analyzed on an A.L.F. DNA sequencer.  
*Biotechniques*, **17**, 474-476.
17. \* Sandaltzopoulos, R. & Becker, P.B. (1994).  
Solid phase DNase I footprinting: quick and versatile.  
*Nucl Acids Res* **22**, 1511-1512.
16. \* Becker, P.B. (1994).  
The establishment of active promoters in chromatin.  
*BioEssays* **16**, 541-547.
15. Becker, P.B., Tsukiyama, T. & Wu, C. (1994).  
Preparation of chromatin assembly extracts from *Drosophila* embryos.  
*Methods in Cell Biology* **44**, 207-223.
14. \* Tsukiyama, T., Becker, P.B. & Wu, C. (1994).  
ATP-dependent nucleosome disruption at a heat-shock promoter mediated by binding of GAGA transcription factor.  
*Nature* **367**, 525-532.
13. \* Quivy, J.-P. & Becker, P.B. (1994).  
Direct dideoxy sequencing of genomic DNA by ligation-mediated PCR.  
*Biotechniques* **16**, 239-240.
12. \* Sandaltzopoulos, R., Blank, T. & Becker, P.B. (1994).  
Transcriptional repression by nucleosomes but not HI in reconstituted preblastoderm *Drosophila* chromatin.  
*EMBO J***13**, 373-379.
11. \* Quivy, J.-P. & Becker, P.B. (1993).

\* peer reviewed articles

- An improved protocol for genomic sequencing and footprinting by ligation-mediated PCR. *Nucleic Acids Res* **21**, 2779-2781.
10. Becker, P.B., Weih, F. & Schütz, G. (1993).  
Footprinting of DNA-binding proteins in intact cells.  
*Methods in Enzymology* **218**, 568-587.
  9. \* Becker, P.B. & Wu, C. (1992).  
Cell-free system for assembly of transcriptionally repressed chromatin from Drosophila Embryos.  
*Mol Cell Biol* **12**, 2241-2249.
  8. \* Weih, F., Nitsch, D., Reich, A., Schütz, G. & Becker, P.B. (1991).  
Analysis of CpG methylation and genomic footprinting at the tyrosine aminotransferase gene : DNA  
methylation alone is not sufficient to prevent protein binding in vivo.  
*EMBO J* **10**, 2559-2567.
  7. \* Becker, P.B., Rabindran, S.K. & Wu, C. (1991).  
Heat shock-regulated transcription in vitro from a reconstituted chromatin template.  
*Proc Natl Acad Sci USA* **88**, 4109-4113.
  6. \* Clos, J., Westwood, J., Becker, P.B., Wilson, S., Lambert, K. & Wu, C. (1990).  
Molecular cloning and expression of a hexameric Heat Shock Factor subject to negative regulation.  
*Cell* **63**, 1085-1097.
  5. Becker, P.B. & Schütz, G. (1988).  
Genomic Footprinting.  
In "Genetic engineering, principles and methods" **10**, 1-17;  
J.K. Setlow (ed), Plenum Press, New York.
  4. \* Becker, P.B., Ruppert, S. & Schütz, G. (1987).  
Genomic Footprinting reveals cell-type-specific binding of ubiquitous transcription factors.  
*Cell* **51**, 435-443.
  3. Schütz, G., Schmid, W., Danesch, U., Gloss, B., Strähle, U., Becker, P.B. & Boshart, M. (1986).  
Molecular basis for hormonal regulation of the tyrosine aminotransferase and tryptophan oxygenase genes.  
*Annals of the New York Acad of Sciences* **478**, 93-100.
  2. \* Becker, P.B., Gloss, B., Schmid, W., Strähle, U. & Schütz, G. (1986).  
In vivo protein-DNA interactions in a glucocorticoid response element require the presence of the hormone.  
*Nature* **324**, 686-688.
  1. \* Becker, P.B., Renkawitz, R. & Schütz, G. (1984).  
Tissue-specific DNase I-hypersensitive sites in the 5' flanking sequences of the tryptophane oxygenase and  
tyrosine aminotransferase genes.  
*EMBO J* **3**, 2015-2020.