

## 2026

### **Repeat-associated ataxias in a German patient cohort analysed by targeted parallel long-read sequencing.**

Erdmann H, Schaub A, Lucas MC, Scholz V, Benet-Pages A, Becker K, Dineiger C, Mayer V, van Buren I, Breithausen E, Akbari K, Cordts I, Sauer M, Schneider C, Krakowsky R, Schnabel F, Dunker K, Fabritius L, Gerb J, Grabova D, Möhwald K, Näher M, Steinmetz K, Thiessen F, Jäck A, Schneider-Gold C, Zittel S, Petersen C, Schreyer I, Mämecke L, Wilfling S, Wunderlich G, Brenner D, Hellenbroich Y, Muhle K, Huchtemann T, Claus I, Klopstock T, Strupp M, Levin J, Höglinger G, Huppert D, Becker-Bense S, Filippoulos F, Kilpert F, Leitão E, Kaya S, Depienne C, Schöberl F, Neuhann T, Holinski-Feder E, Zwergal A, Abicht A.

<https://pubmed.ncbi.nlm.nih.gov/40898875/>

## 2025

### **Visual Diagnosis of Facioscapulohumeral Muscular Dystrophy (FSHD).**

Erdmann H, Abicht A, Becker K.

<https://pubmed.ncbi.nlm.nih.gov/40579967/>

### **Aktualisierung des Modells pathogener *CNBP* Repeatexpansionen ursächlich für die Myotone Dystrophie Typ 2.**

Erdmann H, Wendlandt M, Rost S, Lucas MC, Sauer M, Golibrzuch M, Cordts I, Kleefeld F, Timmer M, Bier A, Wunderlich G, Becker K, Kleinle S, Wenninger S, Walter M, Neuhann T, Holinski-Feder E, Schoser B, Abicht A.

Nervenheilkunde 2025; 44(03): 168. DOI: [10.1055/s-0044-1801526](https://doi.org/10.1055/s-0044-1801526)

### **Die Ränder des diagnostischen Spektrums der FSHD – Komplexe genetische Befunde in der Diagnostik der Fazioskapulohumeralen Muskeldystrophie (FSHD) und ihre Implikation für das molekulargenetische Modell der Erkrankung.**

Erdmann H, Gehling S, Scharf F, Lucas MC, Kleefeld F, Becker K, Schönrock V, Saak A, Schäfer J, Neuhoff S, Hagenacker T, Pormann J, Rausch HW, Schirmer L, Berking AC, Neuhann T, Holinski-Feder E, Walter M, Schoser B, Abicht A.

Nervenheilkunde 2025; 44(03): 143. DOI: [10.1055/s-0044-1801447](https://doi.org/10.1055/s-0044-1801447)

### **Joint analysis of germline genetic data from over 29,000 cases with suspected hereditary breast and ovarian cancer (HBOC) as part of the NASGE initiative.**

Henkel J, Laner A, Locher M, Wohlfrom T, Neitzel B, Becker K, Neuhann T, Abicht A, Steinke-Lange V, Klink B, Eichhorn B, Schmidt W, Berner D, Teubert A, Holtorf A, Heinrich S, Wildhardt G, Schulze M, von der Heyden L, Hörtnagel K, Steinberger D, Kleier S, Lorenz P, Glaubitz R, Biskup S, Holinski-Feder E.

<https://pubmed.ncbi.nlm.nih.gov/39854808/>

## 2024

### **Updated Structure of *CNBP* Repeat Expansions in Patients With Myotonic Dystrophy Type 2 and Its Implication for Standard Diagnostics.**

Wendlandt M, Erdmann H, Rost S, Lucas MC, Becker K, Kleinle S, Timmer M, Bier A, Wunderlich G, Wenninger S, Walter MC, Neuhann T, Schoser B, Holinski-Feder E, Abicht A.

<https://pubmed.ncbi.nlm.nih.gov/39703464/>

## 2023

### **Diagnostic yield and clinical relevance of expanded germline genetic testing for nearly 7000 suspected HBOC patients.**

Henkel J, Laner A, Locher M, Wohlfrom T, Neitzel B, Becker K, Neuhann T, Abicht A, Steinke-Lange V, Holinski-Feder E.

<https://pubmed.ncbi.nlm.nih.gov/37188824/>

### **Methylation of the 4q35 D4Z4 repeat defines disease status in facioscapulohumeral muscular dystrophy.**

Erdmann H, Scharf F, Gehling S, Benet-Pagès A, Jakubiczka S, Becker K, Seipelt M, Kleefeld F, Knop KC, Prott EC, Hiebeler M, Montagnese F, Gläser D, Vorgerd M, Hagenacker T, Walter MC, Reilich P, Neuhann T, Zenker M, Holinski-Feder E, Schoser B, Abicht A.

<https://pubmed.ncbi.nlm.nih.gov/36100962/>

## 2021

**Location matters - Genotype-phenotype correlation in LRSAM1 mutations associated with rare Charcot-Marie-Tooth neuropathy CMT2P.** P. Reilich, B. Schlotter, F. Montagnese, B. Jordan, F. Stock, M. Schäff-Vogelsang, B. Hotter, K. Eger, I. Diebold, H. Erdmann, **K. Becker**, U. Schön, & A. Abicht

<https://doi.org/10.1016/j.nmd.2020.11.011>.

## 2020

**Missense mutations in CASK interfere with neurexin binding and neurexin-induced oligomerization.** Pan YE, Tibbe D, Harms FL, Reißner C, Becker K, Dingmann B, Mirzaa G, Kattentidt-Mouravieva AA, Shoukier M, Aggarwal S, Missler M, Kutsche K, Kreienkamp H. *J Neurochem*. Published online October 14, 2020:jnc.15215. doi:[10.1111/jnc.15215](https://doi.org/10.1111/jnc.15215)

## 2018

**Variants in exons 5 and 6 of ACTB cause syndromic thrombocytopenia.** Latham SL, Ehmke N, Reinke PYA, Taft MH, Eicke D, Reindl T, Stenzel W, Lyons MJ, Friez MJ, Lee JA, Hecker R, Frühwald MC, **Becker K**, Neuhann TM, Horn D, Schrock E, Niehaus I, Sarnow K, Grützmann K, Gawehn L, Klink B, Rump A, Chaponnier C, Figueiredo C, Knöfler R, Manstein DJ, Di Donato N. *Nat Commun*. 2018;9(1):4250. doi:[10.1038/s41467-018-06713-0](https://doi.org/10.1038/s41467-018-06713-0)

## 2017

**BRCA1/2 missense mutations and the value of in-silico analyses.** Sadowski CE, Kohlstedt D, Meisel C, Keller K, **Becker K**, Mackenroth L, Rump A, Schröck E, Wimberger P, Kast K. *Eur J Med Genet*. 2017;60(11):572-577. doi:[10.1016/j.ejmg.2017.08.005](https://doi.org/10.1016/j.ejmg.2017.08.005)

**Spectrum of genetic variants of BRCA1 and BRCA2 in a German single center study.** Meisel C, Sadowski CE, Kohlstedt D, Keller K, Stäritz F, Grübling N, **Becker K**, Mackenroth L, Rump A, Schröck E, Arnold N, Wimberger P, Kast K. *Arch Gynecol Obstet*. 2017;295(5):1227-1238. doi:[10.1007/s00404-017-4330-z](https://doi.org/10.1007/s00404-017-4330-z)

**Comprehensive molecular characterization of multifocal glioblastoma proves its monoclonal origin and reveals novel insights into clonal evolution and heterogeneity of glioblastomas.** Abou-El-Ardat K, Seifert M, **Becker K**, Eisenreich S, Lehmann M, Hackmann K, Rump A, Meijer G, Carvalho B, Temme A, Schackert G, Schröck E, Krex D, Klink B. *Neuro Oncol*. 2017;19(4):546-557. doi:[10.1093/neuonc/now231](https://doi.org/10.1093/neuonc/now231)

## 2014

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**Germline truncating-mutations in BRCA1 and MSH6 in a patient with early onset endometrial cancer.** Kast K, Neuhann TM, Görgens H, **Becker K**, Keller K, Klink B, Aust D, Distler W, Schröck E, Schackert HK. *BMC Cancer*. 2012;12:531. doi:[10.1186/1471-2407-12-531](https://doi.org/10.1186/1471-2407-12-531)

**BRCA1/2 testing: uptake, phenocopies, and strategies to improve detection rates in initially negative families.** Fischer C, Engel C, Sutter C, Zachariae S, Schmutzler R, Meindl A, Heidemann S, Grimm T, Goecke T, Debatin I, Horn D, Wieacker P, Gadzicki D, Becker K, Schäfer D, Stock F, Voigtländer T, on behalf of the German Consortium for Hereditary Breast and Ovarian Cancer. *Clinical Genetics*. 2012;82(5):478-483. doi:[10.1111/j.1399-0004.2011.01788.x](https://doi.org/10.1111/j.1399-0004.2011.01788.x)

**De novo microdeletions of chromosome 6q14.1-q14.3 and 6q12.1-q14.1 in two patients with intellectual disability - further delineation of the 6q14 microdeletion syndrome and review of the literature.** Becker K, Di Donato N, Holder-Espinasse M, Andrieux J, Cuisset J-M, Vallée L, Plessis G, Jean N, Delobel B, Thuresson A-C, Annerén G, Ravn K, Tümer Z, Tinschert S, Schrock E, Jønch AE, Hackmann K. *Eur J Med Genet*. 2012;55(8-9):490-497. doi:[10.1016/j.ejmg.2012.03.003](https://doi.org/10.1016/j.ejmg.2012.03.003)

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**Three-dimensional cell growth confers radioresistance by chromatin density modification.** Storch K, Eke I, Borgmann K, Krause M, Richter C, Becker K, Schröck E, Cordes N. *Cancer Res*. 2010;70(10):3925-3934. doi:[10.1158/0008-5472.CAN-09-3848](https://doi.org/10.1158/0008-5472.CAN-09-3848)

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**A role of HAUSP in tumor suppression in a human colon carcinoma xenograft model.** Becker K, Marchenko ND, Palacios G, Moll UM. *Cell Cycle*. 2008;7(9):1205-1213. doi:[10.4161/cc.7.9.5756](https://doi.org/10.4161/cc.7.9.5756)

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**Hyperubiquitylation of wild-type p53 contributes to cytoplasmic sequestration in neuroblastoma.** Becker K, Marchenko ND, Maurice M, Moll UM. *Cell Death Differ*. 2007;14(7):1350-1360. doi:[10.1038/sj.cdd.4402126](https://doi.org/10.1038/sj.cdd.4402126)

**Monoubiquitylation promotes mitochondrial p53 translocation.** Marchenko ND, Wolff S, Erster S, Becker K, Moll UM. *EMBO J*. 2007;26(4):923-934. doi:[10.1038/sj.emboj.7601560](https://doi.org/10.1038/sj.emboj.7601560)

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**Patterns of p73 N-terminal isoform expression and p53 status have prognostic value in gynecological cancers.** Becker K, Pancoska P, Concin N, Vanden Heuvel K, Slade N, Fischer M, Chalas E, Moll UM. *Int J Oncol*. 2006;29(4):889-902.

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**Transdominant DeltaTAp73 Isoforms are frequently up-regulated in ovarian cancer. Evidence for their role as epigenetic p53 inhibitors in vivo.** Concin N, Becker K, Slade N, Erster S, Mueller-Holzner E, Ulmer H, Daxenbichler G, Zeimet A, Zeillinger R, Marth C, Moll UM. *Cancer Res*. 2004;64(7):2449-2460. doi:[10.1158/0008-5472.CAN-03-1060](https://doi.org/10.1158/0008-5472.CAN-03-1060)

**High-throughput analysis of genome-wide receptor tyrosine kinase expression in human cancers identifies potential novel drug targets.** Müller-Tidow C, Schwäble J, Steffen B, Tidow N, Brandt B, Becker K, Schulze-Bahr E, Halfter H, Vogt U, Metzger R, Schneider PM, Büchner T, Brandts C, Berdel WE, Serve H. *Clin Cancer Res*. 2004;10(4):1241-1249. doi:[10.1158/1078-0432.ccr-0954-03](https://doi.org/10.1158/1078-0432.ccr-0954-03)