

Curriculum vitae

Prof. Dr. med. Cristina Has

Fachärztin für Haut- und Geschlechtskrankheiten
 Qualifikation fachgebundene genetische Beratung

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Berufliche Erfahrung / Schwerpunkte der Forschung

- **>20 Jahre Erfahrung in der Dermatologie**
- **>15 Jahre Erfahrung in Genetik und molekulargenetischer Diagnostik**
- **>15 Jahre Erfahrung mit Genodermatosen**
- **>20 Erfahrung in akademischer Lehre**
- **Schwerpunkte der klinischen Tätigkeit und Forschung:**
Genodermatosen, pädiatrische Dermatologie
- **150 Publikationen (11.11.2017)**
<https://www.ncbi.nlm.nih.gov/pubmed/?term=has+c>

Universitätsstudium, Promotion und Habilitation

1985–1991	Medizinstudium, Universität Iuliu Hatieganu Cluj-Napoca, Rumänien
2001	Promotion (M.D.), Dermatologie, Universität Cluj-Napoca
2007	Habilitation, Experimentelle Dermatologie, Albert-Ludwigs-Universität Freiburg im Breisgau
2012	Außerplanmäßige Professur, Albert-Ludwigs-Universität Freiburg im Breisgau

Weiterbildungen und Qualifikationen

1991–1992	Ärztin im Praktikum, Universitätsklinik Cluj-Napoca
1992–1995	Assistenzärztin im Fach Dermatologie, Universitäts-Hautklinik Cluj-Napoca
1995	Fachärztin für Haut- und Geschlechtskrankheiten, Rumänien
10.2000–12.2000	Pädiatrische Dermatologie, Prof. F. Cambazard, CHU Saint-Etienne, Frankreich
2003	Oberärztin für Haut- und Geschlechtskrankheiten, Rumänien
2007	Approbation als Ärztin in der BRD
2009	Fachärztin für Haut- und Geschlechtskrankheiten, BRD
2014	Qualifikation fachgebundene genetische Beratung, BRD

Wissenschaftlicher Werdegang und berufliche Tätigkeit

1995–1998	Universitätsassistentin Genetik, Universität Cluj-Napoca
1998–2003	Universitätsassistentin Dermatologie, Fach- und Oberärztin für Dermatologie, Universitäts-Hautklinik Cluj-Napoca

1999–2000	Forschung zum Thema „Genetik des Conradi-Hünerman-Happle-Syndroms“, Prof. H. Traupe, Universitäts-Hautklinik WWU Münster
01.2001–12.2001	Wissenschaftliche Mitarbeiterin AG Prof. L. Bruckner-Tuderman, Universitäts-Hautklinik WWU Münster
01.2002–03.2003	Postdoc, Prof. J. Fischer, Centre National de Génotypage Evry, Frankreich
seit 03.2003	Laborleiterin, Funktionsoberärztin, Leitung einer AG „Genetik der Hautfragilität“ Klinik für Dermatologie und Venerologie, Albert-Ludwigs-Universität Freiburg im Breisgau
01.2010–02.2010	Visiting scientist, Prof. B. Hinz, Universität Toronto, Kanada
Seit 2013	PI im Interdisziplinären Else Kröner-Forschungskolleg (EKFK) der Medizinischen Fakultät Freiburg, „Nierenfunktionsstörungen als Komplikation von Systemerkrankungen“
2014	Tertio loco - Head of the research unit for genodermatoses, EB-House Salzburg Austria
Seit 2014	PI im SFB 1140 KIDGEM

Auszeichnungen und andere Aktivitäten

(in der Reihenfolge der Aktualität)

Preise und Stipendien:

2014	Ulmer Dermatologie - Preis
2014	„Quo vadis“-Vortrag der Arbeitsgemeinschaft Dermatologische Forschung
2007	Oscar-Gans - Preis
2004	„Research on Skin Dryness“- Preis
2001–2003	Stipendium Genopole, Frankreich
2000	Stipendium „Le Pont Neuf“, Paris

Mitgliedschaften und andere Aktivitäten:

ESDR, EADV, ADF, AG Pädiatrische Dermatologie der DDG

seit 2017	Koordination der AG „Deep Genotyping“ des European Reference Network - Skin
seit 2016	Koordination des Projektes “Clinical Practice Guidelines EB Laboratory Diagnosis” (Debra Austria)
seit 2014	Sprecherin der AG Dermatologische Genetik der „Arbeitsgemeinschaft Dermatologische Forschung“

Ad hoc Reviewer:

(Auswahl)

- Begutachtung Zeitschriften:
Am J Hum Genet, Hum Mol Genet, J Invest Dermatol, PLoS ONE, Arch Derm Res, Exp Dermatol, Br J Dermatol, Clin Exp Dermatol, Acta Dermato Venerologica, Cancer Letters, Mol Biol Cell, JDDG, etc.
- Begutachtung Forschungsanträge und Abstracts:

Arbeitsgemeinschaft Dermatologische Forschung, European Society of Dermatologic Research, Deutsche Forschungsgemeinschaft, Telethon, Deutsche Forschungsgemeinschaft, DEBRA International, Health Research Board, Medical Research Council, Fondation Rene Touraine

Publikationen (Auswahl, in der Reihenfolge der Aktualität)

1. Has C, Schumann H, Leppert J, He Y, Hartmann B, Hausser I, Kohlhase J. Monoallelic large intragenic KRT5 deletions account for genetically unsolved cases of epidermolysis bullosa simplex. *J Invest Dermatol*. 2017 May 30. pii:S0022-202X(17)31562-2. doi: 10.1016/j.jid.2017.05.016. [Epub ahead of print] PubMed PMID: 28576738
2. Kroeger JK, Hofmann SC, Leppert J, Has C*, Franzke CW#. Amino acid duplication in the coiled-coil structure of collagen XVII alters its maturation and trimerization causing mild junctional epidermolysis bullosa. *Hum Mol Genet* 1;26:479-488, 2017 *corresponding author, # equal contribution
3. He Y, Leppert J, Steinke H, Has C. Homozygous Nonsense Mutation and Additional Deletion of an Amino Acid in BPAG1e Causing Mild Localized Epidermolysis Bullosa Simplex. *Acta Derm Venereol* 97:657-659 2017
4. Pazzaglia C, He Y, Busch H, Esser P, Kiritsi D, Gache Y, Bruckner-Tuderman L, Boerries M, Has C. Absence of the integrin α3 subunit induces an activated phenotype in human keratinocytes. *J Invest Dermatol* 137:1387-1391, 2017
5. Maier K, He Y, Wölflé U, Esser PR, Brummer T, Schempp C, Bruckner-Tuderman L, Has C. UV-B-induced cutaneous inflammation and prospects for antioxidant treatment in Kindler syndrome. *Hum Mol Genet* 25:5339-5352, 2016
6. He Y, Maier K, Leppert J, Hausser I, Schwieger-Briel A, Weibel L, Theiler M, Kiritsi D, Busch H, Boerries M, Hannula-Jouppi K, Heikkilä H, Tasanen K, Castiglia D, Zambruno G, Has C. Monoallelic Mutations in the Translation Initiation Codon of KLHL24 Cause Skin Fragility. *Am J Hum Genet* 99:1395-1404, 2016
7. Has C, Schwieger-Briel A, Schlipf N, Hausser I, Chmel N, Rösler B, Technau K, Jakob T, Zimmer A, Fischer J. Target-sequence Capture and High Throughput Sequencing Identify a De novo CARD14 Mutation in an Infant with Erythrodermic Pityriasis Rubra Pilaris. *Acta Derm Venereol* 96:989-990, 2016
8. He Y, Balasubramanian M, Humphreys N, Waruiru C, Brauner M, Kohlhase J, O'Reilly R, Has C. Intronic ITGA3 mutation impacts splicing regulation and causes interstitial lung disease, nephrotic syndrome and epidermolysis bullosa. *J Invest Dermatol* 136:1056-9, 2016
9. Maier K, He Y, Esser PR, Thriene K, Sarca D, Kohlhase J, Dengjel J, Martin L, Has C. Single Amino Acid Deletion in Kindlin-1 Results in Partial Protein Degradation Which Can Be Rescued by Chaperone Treatment. *J Invest Dermatol* 136:920-9, 2016
10. Yalcin EG, He Y, Orhan D, Pazzaglia C, Emiralioglu N, Has C. Crucial role of posttranslational modifications of integrin α3 in interstitial lung disease and nephrotic syndrome. *Hum Mol Genet* 24:3679-88, 2015
11. Chmel N, Danescu S, Gruler A, Kiritsi D, Bruckner-Tuderman L, Kreuter A, Kohlhase J, Has C. A Deep-Intronic FERMT1 Mutation Causes Kindler Syndrome: An Explanation for Genetically Unsolved Cases. *J Invest Dermatol*. 135:2876-9, 2015
12. Schwieger-Briel A, Weibel L, Chmel N, Leppert J, Kernland-Lang K, Grüninger G, Has C. A COL7A1 variant leading to in-frame skipping of exon 15 attenuates disease severity in recessive dystrophic epidermolysis bullosa. *Br J Dermatol* 173:1308-11, 2015

13. Kiritsi D, Lorente AI, Happle R, Bernabeu Wittel J, **Has C**. Blaschko line acne on pre-existent hypomelanosis reflecting a mosaic FGFR2 mutation. *Br J Dermatol* 172(4):1125-7, 2015
14. **Has C**, Chmel N, Levati L, Neri I, Sonnenwald T, Pigors M, Godbole K, Dudhbhate A, Bruckner-Tuderman L, Zambruno G, Castiglia D. FERMT1 promoter mutations in patients with Kindler syndrome. *Clin Genet* 88(3):248-54, 2015
15. Kiritsi D, Valari M, Fortugno P, Hausser I, Lykopoulou L, Zambruno G, Fischer J, Bruckner-Tuderman L, Jakob T, **Has C**. Whole-exome sequencing in patients with ichthyosis reveals modifiers associated with increased IgE levels and allergic sensitizations. *J Allergy Clin Immunol* 135(1):280-3, 2015
16. Pigors M, Schwieger-Briel A, Cosgarea R, Diaconeasa A, Bruckner-Tuderman L, Fleck T, **Has C**. Desmoplakin mutations with palmoplantar keratoderma, woolly hair and cardiomyopathy. *Acta Derm Venereol* 95(3):337-40, 2015
17. He Y, Sonnenwald T, Sprenger A, Hansen U, Dengjel J, Bruckner-Tuderman L, Schmidt G, **Has C**. RhoA activation by CNFy restores cell-cell adhesion in kindlin-2 deficient keratinocytes. *J Pathol* 233:269-80, 2014
18. Pigors M, Schwieger-Briel A, Leppert J, Kiritsi D, Kohlhase J, Bruckner-Tuderman L, **Has C**. Molecular heterogeneity of epidermolysis bullosa simplex: contribution of EXPH5 mutations. *J Invest Dermatol* 134:842-5, 2014
19. **Has C**, Kiritsi D, Mellerio JE, Franzke CW, Wedgeworth E, Tantcheva-Poor I, Kernland-Lang K, Itin P, Simpson MA, Dopping-Hepenstal PJ, Fujimoto W, McGrath JA, Bruckner-Tuderman L. The Missense Mutation p.R1303Q in Type XVII Collagen Underlies Junctional Epidermolysis Bullosa Resembling Kindler Syndrome. *J Invest Dermatol* 134:845-9, 2014
20. Kiritsi D, Nanda A, Kohlhase J, Bernhard C, Bruckner-Tuderman L, Happle R, **Has C**. Extensive Postzygotic Mosaicism for a Novel Keratin 10 Mutation in Epidermolytic Ichthyosis. *Acta Derm Venereol* 94(3):346-8, 2014
21. Kiritsi D, Chmel N, Arnold AW, Jakob T, Bruckner-Tuderman L, **Has C**. Novel and Recurrent AAGAB Mutations: Clinical Variability and Molecular Consequences. *J Invest Dermatol* 133: 2483-6, 2013
22. Kiritsi D, Pigors M, Tantcheva-Poor I, Wessel C, Arin MJ, Kohlhase J, Bruckner-Tuderman L, **Has C**. Epidermolysis bullosa simplex Ogna revisited. *J Invest Dermatol* 133: 270-3, 2013
23. Cifuentes L, Kiritsi D, Chen W, Pennino J, Ring J, Weidinger S, **Has C**. A case of junctional epidermolysis bullosa with prurigo-like lesions and reduction of collagen XVII and filaggrin. *Br J Dermatol* 169:195-8, 2013
24. Schumann H, Kiritsi D, Pigors M, Hausser I, Kohlhase J, Peters J, Ott H, Hyla-Klekot L, Gacka E, Sieron AL, Valari M, Bruckner-Tuderman L, **Has C**. Phenotypic spectrum of epidermolysis bullosa associated with $\alpha 6\beta 4$ integrin mutations. *Br J Dermatol* 169:115-24, 2013
25. **Has C**, Spartà G, Kiritsi D, Weibel L, Moeller A, Vega-Warner V, Waters A, He Y, Anikster Y, Esser P, Straub BK, Hausser I, Bockenhauer D, Dekel B, Hildebrandt F, Bruckner-Tuderman L, Laube GF. Integrin a3 mutations with kidney, lung and skin disease. *New Engl J Med* 366, 1508-1514, 2012
26. Kiritsi D, He Y, Pasmoij AMG, Onder M, Happle R, Jonkman MF, Bruckner-Tuderman L, and **Has C**. Revertant mosaicism in a human skin fragility disorder results from slipped mispairing and mitotic recombination. *J Clin Invest* 122: 1742-1746, 2012
27. Pigors M, Kiritsi D, Cobzaru C, Schwieger-Briel A, Suárez J, Faletra F, Aho H, Mäkelä L, Kern JS, Bruckner-Tuderman L, **Has C**. TGM5 Mutations Impact Epidermal Differentiation in Acral Peeling Skin Syndrome. *J Invest Dermatol* 132:2422-9, 2012
28. Arnold AW, Kern JS, Itin PH, Pigors M, Happle R, **Has C**. Acromelanosis albo-

- punctata: a distinct inherited dermatosis with acral spotty dyspigmentation without systemic involvement. **Dermatology** 224:331-9, 2012
29. Heinemann A, He Y, Zimina E, Boerries M, Busch H, Chmel N, Kurz T, Bruckner-Tuderman L, and **Has C**. Induction of phenotype modifying cytokines by FERMT1 mutations. **Hum Mutat** 32: 397-406, 2011
 30. Has C, Castiglia D, del Rio M, Diez MG, Piccinni E, Kiritsi D, Kohlhase J, Itin P, Martin L, Fischer J, Zambruno G, Bruckner-Tuderman L. Kindler syndrome: extension of mutational spectrum and natural history. **Hum Mutat** 32:1204-1212, 2011
 31. He Y, Esser P, Schacht V, Bruckner-Tuderman L, **Has C**. Role of kindlin-2 in fibroblast functions: implications for wound healing. **J Invest Dermatol** 131:245-56, 2011
 32. Pigors M, Kiritsi D, Kruempelmann S, Wagner N, He Y, Podda M, Kohlhase J, Haussner I, Bruckner-Tuderman L, and **Has C**. Lack of plakoglobin leads to lethal congenital epidermolysis bullosa: a novel clinico-genetic entity. **Hum Mol Genet** 20:1811-1819, 2011
 33. He Y, Esser P, Heinemann A, Bruckner-Tuderman L, **Has C**. Kindlin-1 and -2 have overlapping functions in epithelial cells: implications for phenotype modification. **Am J Pathol** 178:975-82, 2011
 34. Kiritsi D, Cosgarea I, Franzke CW, Schumann H, Oji V, Kohlhase J, Bruckner-Tuderman L, **Has C**. Acral peeling skin syndrome with TGM5 gene mutations may resemble epidermolysis bullosa simplex in young individuals. **J Invest Dermatol** 130:1741-6, 2010
 35. Arnold AW, Itin PH, Pigors M, Kohlhase J, Bruckner-Tuderman L, **Has C**. Poikiloderma with neutropenia: a novel C16orf57 mutation and clinical diagnostic criteria. **Br J Dermatol** 163:866-9, 2010
 36. Arin MJ, Grimberg G, Schumann H, De Almeida H Jr, Chang YR, Tadini G, Kohlhase J, Krieg T, Bruckner-Tuderman L, **Has C**. Identification of novel and known KRT5 and KRT14 mutations in 53 patients with epidermolysis bullosa simplex: correlation between genotype and phenotype. **Br J Dermatol** 162:1365-9, 2010
 37. **Has C**, Herz C, Zimina E, Qu HY, He Y, Zhang ZG, Wen TT, Gache Y, Aumailley M, Bruckner-Tuderman L. Kindlin-1 is required for RhoGTPase-mediated lamellipodia formation in keratinocytes. **Am J Pathol** 175:1442-52, 2009
 38. Kern JS, Grüninger G, Imsak R, Müller ML, Schumann H, Kiritsi D, Emmert S, Borozdin W, Kohlhase J, Bruckner-Tuderman L, **Has C**. Forty-two novel COL7A1 mutations and the role of a frequent single nucleotide polymorphism in the MMP1 promoter in modulation of disease severity in a large European dystrophic epidermolysis bullosa cohort. **Br J Dermatol** 161:1089-97, 2009
 39. **Has C**, Yordanova I, Balabanova M, Kazandjieva J, Herz C, Kohlhase J, Bruckner-Tuderman L. A novel large FERMT1 (KIND1) gene deletion in Kindler syndrome. **J Dermatol Sci** 52:209-12, 2008
 40. **Has C**, Ludwig RJ, Herz C, Kern JS, Ussar S, Ochsendorf FR, Kaufmann R, Schumann H, Kohlhase J, Bruckner-Tuderman L. C-terminally truncated kindlin-1 leads to abnormal adhesion and migration of keratinocytes. **Br J Dermatol** 159:1192-6, 2008
 41. Kern JS, Herz C, Haan E, Moore D, Nottelmann S, von Lilien T, Greiner P, Schmitt-Graeff A, Opitz OG, Bruckner-Tuderman L, **Has C**. Chronic colitis due to an epithelial barrier defect: the role of kindlin-1 isoforms. **J Pathol** 213:462-70, 2007
 42. Mansur AT, Elcioglu NH, Aydingöz IE, Akkaya AD, Serdar ZA, Herz C, Bruckner-Tuderman L, **Has C**. Novel and recurrent KIND1 mutations in two patients with Kindler syndrome and severe mucosal involvement. **Acta Derm Venereol** 87:563-5, 2007
 43. **Has C**, Danescu S, Volz A, Nöh F, Technau K, Bruckner-Tuderman L. Incontinentia pigmenti in a newborn with a novel nonsense mutation in the NEMO gene. **Br J Dermatol** 156:392-3, 2007

44. **Has C**, Wessagowit V, Pascucci M, Baer C, Didona B, Wilhelm C, Pedicelli C, Locatelli A, Kohlhase J, Ashton GH, Tadini G, Zambruno G, Bruckner-Tuderman L, McGrath JA, Castiglia D. Molecular basis of Kindler syndrome in Italy: novel and recurrent Alu/Alu recombination, splice site, nonsense, and frameshift mutations in the KIND1 gene. *J Invest Dermatol* 126:1776-83, 2006
45. **Has C**, Chang YR, Volz A, Hoeping D, Kohlhase J, Bruckner-Tuderman L. Novel keratin 14 mutations in patients with severe recessive epidermolysis bullosa simplex. *J Invest Dermatol* 126:1912-4, 2006
46. Kern JS, Kohlhase J, Bruckner-Tuderman L, **Has C**. Expanding the COL7A1 mutation database: novel and recurrent mutations and unusual genotype-phenotype constellations in 41 patients with dystrophic epidermolysis bullosa. *J Invest Dermatol* 126:1006-12, 2006
47. Herz C, Aumailley M, Schulte C, Schlötzer-Schrehardt U, Bruckner-Tuderman L, **Has C**. Kindlin-1 is a phosphoprotein involved in regulation of polarity, proliferation, and motility of epidermal keratinocytes. *J Biol Chem* 281: 36082-90, 2006
48. **Has C**, Bruckner-Tuderman L. A novel nonsense mutation in Kindler syndrome. *J Invest Dermatol* 122:84-6, 2004
49. **Has C**, Seedorf U, Kannenberg F, Bruckner-Tuderman L, Folkers E, Fölster-Holst R, Baric I, Traupe H. Gas chromatography-mass spectrometry and molecular genetic studies in families with the Conradi-Hünermann-Happle syndrome. *J Invest Dermatol* 118:851-8, 2002
50. **Has C**, Bruckner-Tuderman L, Müller D, Floeth M, Folkers E, Donnai D, Traupe H. The Conradi-Hünermann-Happle syndrome (CDPX2) and emopamil binding protein: novel mutations, and somatic and gonadal mosaicism. *Hum Mol Genet* 9:1951-5, 2000
51. **Has C**, He Y. Focal adhesions in the skin: lessons learned from skin fragility disorders. *Eur J Dermatol.* 27(S1):8-11, 2017
52. **Has C**. The "Kelch" Surprise: KLHL24, a New Player in the Pathogenesis of Skin Fragility. *J Invest Dermatol.* 2017 137(6):1211-1212, 2017
53. **Has C**, He Y. Renal-skin syndromes. *Cell Tissue Res.* 369(1):63-73, 2017
54. **Has C**. Mosaicism in the skin: lumping or splitting? *Br J Dermatol* 176(1):15-16, 2017
55. Schwieger-Briel A, **Has C**. Update Genodermatosen. *Hautnah Dermatologie* 33(1): 36-45, 2017
56. **Has C**. Molecular therapies for inherited epidermolysis bullosa. *G Ital Dermatol Venereol* 151(4):397-402, 2016
57. **Has C**, He Y. Research Techniques Made Simple: Immunofluorescence Antigen Mapping in Epidermolysis Bullosa. *J Invest Dermatol* 136(7):e65-71, 2016
58. Tantcheva-Poór I, Oji V, **Has C**. Ein mehrstufiger Algorithmus zur Diagnose seltener Genodermatosen. *J Dtsch Dermatol Ges* 14(10):969-987, 2016
59. **Has C**, Technau-Hafsi K. Palmoplantar keratodermas: clinical and genetic aspects. *J Dtsch Dermatol Ges* 14(2):123-40, 2016
60. **Has C**. Hemidesmosomes: how much plakins do they need? *Exp Dermatol* 25(4):263-4, 2016
61. **Has C**, He Y. [Practical aspects of molecular diagnostics in genodermatoses]. *Hautarzt* 67(1):53-8, 2016
62. Schwieger-Briel A., **Has C**. Blasenbildende Erkrankungen bei Kindern. *Pädiatrische Praxis* 86, 135–142, 2016
63. **Has C**, Nyström A. Epidermal Basement Membrane in Health and Disease. *Curr Top Membr* 76:117-70, 2015
64. **Has C**, Kiritsi D. Therapies for inherited skin fragility disorders. *Exp Dermatol* 24(5):325-31, 2015

65. **Has C**, Giehl K. [Rare diseases are common]. **Hautarzt** 65(6):488-9, 2014
66. **Has C**, Kiritsi D. [The many facets of inherited skin fragility]. **Hautarzt** 65(6):490-8, 2014
67. **Has C**, Bruckner-Tuderman L. The genetics of skin fragility. **Annu Rev Genomics Hum Genet** 15:245-68, 2014
68. **Has C**. Processing of the laminin-332 α chain: from bedside to bench. **Br J Dermatol** 170(5):1008-9, 2014
69. Bruckner-Tuderman L, **Has C**. Disorders of the cutaneous basement membrane zone-The paradigm of epidermolysis bullosa. **Matrix Biol** 33C:29-34, 2014
70. **Has C**, Kiritsi D. Molecular therapies for epidermolysis bullosa. **G Ital Dermatol Venereol** 148:65-72, 2013
71. **Has C**, Sitaru C. Molecular dermatology comes of age. **Methods Mol Biol** 961:1-16, 2013
72. Bruckner-Tuderman L, **Has C**. Molecular heterogeneity of blistering disorders: the paradigm of epidermolysis bullosa. **J Invest Dermatol** 15;132(E1):E2-5, 2012
73. **Has C**. Mosaicism in the skin: the importance of mild or minimal skin lesions. **Arch Dermatol** 147:1094-6, 2011
74. **Has C**. Molecular genetic assays for inherited epidermolysis bullosa. **Clin Dermatol** 29:420-6, 2011
75. **Has C**, Bruckner-Tuderman L. [Epidermolysis bullosa: Diagnosis and therapy]. **Hautarzt** 62:82-90, 2011
76. **Has C**, Kern JS. Collagen XVII. **Dermatol Clin** 28(1):61-6, 2010
77. **Has C**. [Kindler syndrome. A new bullous dermatosis]. **Hautarzt** 60(8):622-6, 2009
78. **Has C**, Bruckner-Tuderman L. Molecular and diagnostic aspects of genetic skin fragility. **J Dermatol Sci** 44(3):129-44, 2006
79. **Has C**, Kern JS, Bruckner-Tuderman L. [Hereditary blistering disorders]. **Hautarzt** 55(10):920, 922-30, 2004
80. Traupe H, **Has C**. The Conradi-Hünermann-Happle syndrome is caused by mutations in the gene that encodes a 8-7 sterol isomerase and is biochemically related to the CHILD syndrome. **Eur J Dermatol** 10(6):425-8, 2000

Buchkapiteln

(Auswahl, in der Reihenfolge der Aktualität)

1. **Has C**. Hereditäre Epidermolysen in Braun-Falco's Dermatologie, Venerologie und Allergologie Springer 2017, doi:10.1007/978-3-662-49546-9_48-2
2. **Has C**, Nyström A, Epidermal Basement Membrane in Health and Disease. Basement membranes Ed. Jeffrey Miner, Curr Top Membr. 76:117-70, Elsevier 2015
3. **Has C**, Kapiteln in Blistering disorders, Ed. Dedeé Murrell, Springer 2015
 Acantholytic Forms of Epidermolysis Bullosa
 Kindlin-1 and Its Role in Kindler Syndrome
 Collagen XVII and Its Role in Junctional Epidermolysis Bullosa
 Junctional Epidermolysis Bullosa with Renal and Respiratory Involvement: Integrin α3 Mutations
4. **Has C**, Genodermatosen, in 1000 Fragen Dermatologie, Springer 2014
5. **Has C**, Bruckner-Tuderman L, Uitto J, Chapter 146 – Epidermolysis Bullosa, in Emery & Rimoin's Essential Medical Genetics Eds. Rimoin, Pyeritz & Korf, Elsevier Ltd. 2013

6. **Eds. Has C**, Sitaru C, Humana Press, Molecular Dermatology, Humana Press 2013
7. Bruckner-Tuderman L, **Has C**. Inherited bullous diseases in Therapy of skin diseases, Eds. Krieg T, Miyachi Y, Bickers DR, Springer 2010
8. Bruckner-Tuderman L, **Has C**. Epidermolysis bullosa in Pädiatrische Dermatologie Eds. Traupe H, Hamm H, Springer 2006

Vorträge
(Auswahl, in der Reihenfolge der Aktualität)

1. **Schwieger-Briel A**, He Y, Has C. Monoallelic mutations in the translation initiation codon of KLHL24 cause skin fragility. World Congress of Pediatric Dermatology, Chicago 6.07.2017
2. **Has C**. Epidermolysis bullosa: from genes to therapies. British Association of Dermatologists, Liverpool 5.07.2017 (invited lecture)
3. **Has C**. Genodermatoses: case reports, 11th Genodermatoses Meeting, Freiburg, 29.06.2017
4. **Has C**. The kelch surprise: monoallelic mutations in the translation initiation codon of KLHL24 cause skin fragility. Summer School: Translational research for rare diseases. München 21.-22.06.2017
5. **Has C**. Palmoplantar keratoses. Ärztliche Fortbildung, Freiburg 9.05.2017
6. **Has C**. Erbkrankheiten. 49. DDG-Tagung, Berlin 27.04.2017
7. **Has C**. The Kelch surprise: KLHL24 mutations cause skin fragility. Arbeitsgemeinschaft Dermatologische Forschung Göttingen, AG Genetik, 9.03.2017
8. **Has C**. Monoallelic mutations in KLHL24 cause skin fragility. Seminar GRK 1727 Klinik für Dermatologie Lübeck, 19.01.2017
9. **Has C**. Klinische und genetische Klassifikation der Epidermolysis bullosa. Beratertreffen Humangenetik, Freiburg, 13.01.2017
10. **Has C**. Syndromale Ichthyosen, Fortbildung, Klinik für Dermatologie und Venerologie Freiburg, 30.11.2016
11. **Has C**. Focal adhesions in the skin: lessons from skin Fragility disorders, Skin Physiology International Meeting, Vichy, 17.11.2016 (invited lecture)
12. **Has C**. Genodermatoses: case reports, 10th Genodermatoses Meeting, Zürich, 10.11.2016
13. **Has C**. Hereditary Ichthyoses and Palmoplantar keratodermas, Cluj Romania, 02.11.2016
14. **Has C**. Hereditary Ichthyoses, Iasi Romania, 31.10.2016
15. **Has C**. Vorstellung der Aktivitäten im Kompetenzzentrum, Mitgliederversammlung Kompetenzzentrum Seltene Erkrankungen Baden-Württemberg, Ulm, 24.10.2016
16. Kristin Maier, Yinghong He, Ute Wölflle, Philipp R. Esser, Tilman Brummer, Christoph Schempp, Leena Bruckner-Tuderman, **C Has**. Kindlin-1 protects keratinocytes against UV-B: prospects for antioxidant treatment in Kindler syndrome 46th Annual ESDR Meeting poster walk Presentation, München Germany 7-10.09.2016
17. He Y, ..., **Has C**. Alterations of the composition of the extracellular matrix of integrin $\alpha 3$ deficient keratinocytes reflect basement membrane abnormalities in ILNEB 46th Annual ESDR Meeting, Poster walk presentation, München Germany, 7-10.09.2016

18. **Has C.** Epidermolysis bullosa: Klassifikation und Diagnostik, Fortbildung, Klinik für Dermatologie und Venerologie Freiburg, 3.08.2016
19. **Has C.** Vom Leitsymptom zur Diagnose der fragilen Haut, 25. Fortbildungswoche, München 27.07.2016 (invited lecture)
20. **Has C.** Nicht-syndromale Ichthyosen, Fortbildung, Klinik für Dermatologie und Venerologie Freiburg, 13.07.2016
21. **Has C.** Neues zu der Klassifikation und Genetik der hereditären Palmoplantarkeatosen, Universitäts-Hautklinik Homburg, 06.07.2016 (invited lecture)
22. **Has C.** Atypical Epidermolysis bullosa phenotypes of the Freiburg Clinic. Dept. Dermatology, University Groningen, Groningen, 6.06.2016
23. **Has C.** Genodermatoses: case reports, 9th Genodermatoses Meeting, Basel, 02.06.2016
24. **Has C.** Skin blistering disorders, European Society for Pediatric Dermatology, Paris, 25.05.2016
25. **Has C.** Molecular mechanisms in ILNEB, SFB 1140 Retreat 16.03.2016
26. **Has C.** Red scaly baby, Arbeitsgemeinschaft Dermatologische Forschung Wien, AG Genetik, 10.03.2016
27. **Has C.** Single amino acid deletion in kindlin-1 results in partial protein degradation which can be rescued by chaperone treatment, Arbeitsgemeinschaft Dermatologische Forschung Wien, AG Genetik, 10.03.2016
28. **Has C.** Horizonte in der Diagnostik und Behandlung der fragilen Haut, 25. Jahrestagung der AG Pädiatrische Dermatologie in der DDG und 11. Kölner Symposium „Haut und Kind“, Köln, 19.02.2016
29. **Has C.** Genodermatosen, Fortbildung Hautklinik Freiburg, 13.01.2016
30. **Has C.** Molecular mechanisms underlying interstitial lung disease, nephrotic syndrome, epidermolysis bullosa, 45th Annual ESDR Meeting, Rotterdam, 09.–12.09.2015
31. **Has C.** The genetics of skin fragility, EADV/ESDR Summer School, Marburg, 20.–21.07.2015 (invited lecture)
32. **Has C.** New forms of skin fragility, 23. World Congress of Dermatology, Vancouver, 09.06.2015 (invited lecture)
33. **Has C.** New EB classification, 23. World Congress of Dermatology, Vancouver, 09.06.2015 (invited lecture)
34. **Has C.** The Odyssey of genetically unsolved EB cases, 2015 Research Symposium, Debra International, Atlanta, 04.05.2015
35. **Has C.** Molecular diagnosis of bullous diseases, European Academy of Dermatology and Venereology, Amsterdam, 09.10.2014
36. **Has C.** Old and new treatment for genodermatoses, European Academy of Dermatology and Venereology, Amsterdam, 09.10.2014
37. **Has C.** FERMT1 promoter mutations in patients with Kindler syndrome, 44th Annual ESDR Meeting, Copenhagen, 09.–11.09.2014
38. **Has C.** New cases of Epidermolysis bullosa, European Society for Pediatric Dermatology, Kiel, 12.06.2014
39. **Has C.** Focal adhesions and skin fragility disorders, Gordon Research Conference, New London NH, 2013