

Curriculum vitae (2026)

Prof. Dr. med. Detlev Drenckhahn

Ausbildung

- 1965–1971 Studium der Humanmedizin (und in Abschnitten Biologie) an den Universitäten Kiel und Heidelberg.
1971 Medizinisches Staatsexamen; Promotion (Struktur des Riechorgans von Vögeln).
1971–1972 Medizinalassistent am Universitätsklinikum in Kiel, Approbation.
1973–1974 Stabsarzt der Bundesmarine und Schiffsarzt einer Nordatlantikexpedition (Forschungsschiff Meteor)

Beruf

- 1974–1980 Wissenschaftlicher Assistent am Anatomischen Institut der Christian-Albrechts-Universität zu Kiel.
1981 Habilitation Anatomie/Zellbiologie (Kiel).
1981–1990 Professor (C3,C4) am Institut für Anatomie und Zellbiologie der Philipps-Universität Marburg und Anatomy & Cell Biology Johns Hopkins University, Baltimore (1985).
1990–2012 Vorstand des Instituts für Anatomie & Zellbiologie der Julius-Maximilians-Universität Würzburg.

Forschungsschwerpunkt Anatomie, Zellbiologie

Struktur und Zellbiologie von Herz-Kreislaufsystem und Endothel/Epithelgewebe mit Fokus auf Zytoskelett und Membranproteine.

198 Originalpublikationen in referierten Wissenschaftsjournalen.

Impact der Forschungen: Nach Research com. „Worlds best biology and biochemistry scientists 2025“: D/h-Index 75 (75 Publikationen > 75x zitiert), 18.405 Zitate, 9 Arbeiten je >500 Zitate

Außerberufliche Aktivitäten/ Wissenschaft (Biologie, Naturschutz)

- 1968–1978 Vorstand der Ornithologischen Arbeitsgemeinschaft Schleswig-Holstein (SH) und Hamburg, Herausgeber der Zeitschrift Corax; Begründung/Herausgeber/Autor der Buchserie „Vogelwelt SH“.
1974–1981 Sprecher/Gründer der „Aktionsgemeinschaft Nordseewatten“ (AGN) zum Schutz des Wattenmeer: Resultat: Ausweisung eines Nationalpark Wattenmeer 1985.
1985–2004 Wissenschaftlicher Beirat/Programmausschuss – seit 2000 Stiftungsrat – des World Wide Fund For Nature (WWF Deutschland).
2005–2017 Präsident des WWF-Deutschland. Resultate u.a.: Pers. Finanzmitteleinwerbung für die Einrichtung des Amazonas-Nationalparks „Juruená“; Initiative zur Gründung des Kavango-Zambesi Transfrontier Conservation Area (KAZA).
2009–2026 Aufsichtsratsvorsitzender des Nationalparkzentrums Königsstuhl im Nationalpark Jasmund/ Rügen. Resultate: Planung/Realisierung des Skywalks Königsstuhl (Eröffnung 2023); persönliche Spendenbeschaffung für Errichtung eines UNESCO-Welterbezentrums/Michael-Otto-Haus im Nationalpark (2017, Einweihung durch Kanzlerin Merkel).
2014–2020 Initiator und Vorsitz der „Wissenschaftskommission Umwelt“ in der Nationalen Akademie für Wissenschaften (Leopoldina). Resultate u.a.: Hrsg. von „Rolle der Wissenschaft im Globalen Wandel“ (Nova Acta Leopold. 118, 2013, pp 396); „Globale Biodiversität in der Krise“ (Leopoldina: 2020, pp124).

Forschungsschwerpunkte Biologie (Ornithologie, Botanik, Ökologie)

Ökologie und Mauser von Wasservögeln, Taxonomie und Verbreitung von Habichtskräutern (*Pilosella*, *Hieracium*), Brombeeren (*Rubus*) und Scharbockskräutern (*Ficaria*), Biodiversität, Naturschutz national/international.

Resultate: 36 Originalpublikationen in referierten Wissenschaftsjournalen. Erstbeschreibung von 10 neu entdeckten Pflanzenarten, 8 davon in Deutschland.

Herausgeberschaften, Wissenschaftsgremien, Ehrenmitgliedschaften

- Verdienstorden (Verdienstkreuz) der Bundesrepublik Deutschland am Bande für „Engagement in den Bereichen der Medizin, der Ökologie und des Naturschutzes“.
- Mitglied/Senator der Nationalen Akademie der Wissenschaften Deutschland (Leopoldina)
- Ehrenmitglied der Humboldt-Universität zu Berlin. • Ehrenmitglied der Anatomischen Gesellschaft Rumäniens. • Ehrenpräsident des World Wide Fund For Nature (WWF-Deutschland).
- Herausgeber (1992–2016) der Zeitschrift „Histochemistry & Cell Biology“ (Springer, Heidelberg).
- Herausgeber/Gründer (2004) der Zeitschrift „Forum Geobotanicum“ (ISSN: 1867-9315).
- Herausgabe und Neubearbeitung des Referenzwerks der Anatomie und Zellbiologie begründet von A. Benninghoff (Benninghoff-Drenckhahn): Makroskopische Anatomie, Embryologie, Histologie, Zellbiologie 15.–18. Aufl., 1994–2026 (Coherausgeber 2026: E. Asan, S. Ergün, E. Tamm). Urban & Fischer, Elsevier, München.
- Herausgeber von Benninghoff-Drenckhahn: Taschenbuch Anatomie (Coherausgeber J. Waschke). 1.–3. Aufl. 2008–2020. Urban & Fischer, Elsevier, München.
- Editorial Board, Kapitelauteur: Flora Germanica (Hrsg. Hassler M, Muer T). Vol. 1–3 (2020–2024). ISBN 978-3-95505-482-3

[Publikationsliste >>](#)

Curriculum vitae (2026)

Prof. Dr. Detlev Drenckhahn

Education

- 1965–1971 Studies in medicine (and in part biology), Universities of Kiel and Heidelberg.
1971 Thesis in neurohistology (structure of the avian olfactory organ).
1971–1972 Medical internship, University Clinics, Kiel.
1973–1974 Medical officer, Navy Institute of Medicine, Kiel, Ship's doctor on a North Atlantic expedition aboard the federal research vessel Meteor.

Professional career

- 1974–1980 Postdoc, Institute of Anatomy, Christian-Albrechts University of Kiel.
1981–1989 Professor, Institute of Anatomy and Cell Biology, Philipps University of Marburg; Department Anatomy & Cell Biology Johns Hopkins University, Baltimore (1985).
1990–2012 Head of institute of Anatomy & Cell Biology, Julius-Maximilians University of Würzburg.

Research in Anatomy, Cell Biology, Biochemistry

Research activities: Structure and cell biology of the cardiovascular system and epithelial tissues with a focus on cytoskeleton and membrane proteins.

198 original publications in peer-reviewed international scientific journals (see attachment).

Research impact: According to Research.com. (2023): „World's best biology and biochemistry scientists, 2025“: D/h-Index: 75 (75 publications > 75x cited), 18,405 citations, 9 papers > 500 citations

Activities in Biology / Nature conservation/ Biodiversity

- 1968–1978 Board of the Ornithological society of Schleswig-Holstein (SH) und Hamburg; Editor of the ornithology journal „Corax“; Foundation of book series „Vogelwelt (Avifauna) of SH“.
- 1974–1985 Spokesperson/founder of a nation wide environmental movement „Action group North Sea Wadden area“ (AGN). Achievement: designation of a National park Schlesw.-Holst. Wadden Sea in 1985.
- 1985–2004 Scientific Advisory Board/Program Committee/Board of Trustees of the World Wide Fund For Nature (WWF Germany).
- 2005–2017 President of WWF Germany. Milestones: Tripling of income/members of WWF-D; Foundation of the National park Jurueña in Brazilian Amazon; Initiation and Implementation of the African Kavango-Zambesi Transfrontier Conservation Area (KAZA).
- 2009–2025 Chairman of the Königsstuhl National Park-/UNESCO World Heritage Centers in Jasmund National Park/ island of Rügen. Achievements: 60% increase of visitors (435 T in 2025), Private sector funds raised personally for the establishment/building of a UNESCO World Heritage Visitor Center (opening in 2017 by federal chancellor Angela Merkel); Planning/implementation of the cliff Skywalk Königsstuhl (opening in 2023).
- 2014–2020 Initiator and Chairman of the „Science commission on the environment“ at the German National Academy of Sciences (Leopoldina). Study author/editor: „Role of science in global change“ (Nova Acta Leopold. 118, 2013, pp 396); „Global biodiversity in crisis“ (Leopoldina: 2020, pp124)

Research in Biology (Ornithology, Botany, Ecology)

Ecology / biology and moulting of water birds; taxonomy and distribution of hawkweeds (*Pilosella*, *Hieracium*), blackberries (*Rubus*) and lesser celandines (*Ficaria*), biodiversity; Nature conservation. 36 original publications in peer-reviewed scientific journals.
Description/discovery of 10 previously unknown plant species (holotypes), 8 of them in Germany.

Honors, Editorial positions

- Order of Merit of the Federal Republic of Germany for „Merits in the fields of medicine, ecology, and nature conservation.“
- Member, interim Senator of the National Academy of Sciences of Germany (Leopoldina).
- Honorary member of Humboldt University of Berlin • Honorary member of the Romanian Anatomical Society • Honorary president of World Wide Fund For Nature (WWF).
- Editor in Chief (1992–2016) of the journal Histochemistry & Cell Biology (Springer, Heidelberg).
- Editor in chief of the leading (German) text book on Anatomy and Cell biology founded by A. Benninghoff (Benninghoff-Drenckhahn): Anatomy, Embryology, Histology, Cell Biology, 15th–18th ed., 1994–2026. Urban & Fischer, Elsevier, Munich.
- Editor of Benninghoff-Drenckhahn: Taschenbuch Anatomie (Pocket book Anatomy), eds. D. Drenckhahn, J. Waschke, 1st–3rd ed. 2008–2020. Urban & Fischer, Elsevier, Munich.
- Editor in chief/publisher of the journal Forum Geobotanicum (ISSN: 1867-9315).
- Editorial Board, author: Flora Germanica. Vol. 1–3 (2020–2024). ISBN 978-3-95505-482-3

List of publications (see following pages)

Scientific publications

Anatomy and Cell Biology (Original papers)

1. Drenckhahn, D.: Untersuchungen an Regio olfactoria und Nervus olfactorius der Silbermöwe (*Larus argentatus*). **Z. Zellforsch.** **106**, 119 – 142 (1970)
2. Dragonat, P., Drenckhahn, D.: Spirographische Untersuchung der ventilatorischen Lungenfunktion unter Überdruckbedingungen. **Eur. J. appl. Physiol.** **32**, 341 – 348 (1974)
3. Drenckhahn, D., Kleine, L., Lüllmann-Rauch, R.: Lysosomal alterations in cultured macrophages exposed to anorexigenic and psychotropic drugs. **Lab. Invest.** **35**, 116 – 123 (1976)
4. Drenckhahn, D., Lüllmann-Rauch, R.: Alterations in peripheral nerves of rats treated with chlorphentermine or with iprindole. **Cell Tissue Res.** **171**, 273 – 276 (1976)
5. Drenckhahn, D., Lüllmann-Rauch, R.: Myopathy in rats treated with chlorphentermine or iprindole. **Virchows Arch. B Cell Path.** **20**, 343 – 346 (1976)
6. Drenckhahn, D.: Axonal and cellular alterations in the inner ear of rats treated with chlorphentermine or iprindole. **Virchows Arch. B Cell Path.** **23**, 87 – 92 (1977)
7. Drenckhahn, D., Lüllmann-Rauch, R.: Lens opacities associated with lipidosis-like ultrastructural alterations in rats treated with chloroquine, chlorphentermine or iprindole. **Exp. Eye Res.** **24**, 621 – 632 (1977)
8. Drenckhahn, D., Gröschel-Stewart, U.: Localization of myosin and actin in ocular nonmuscle cells. Immunofluorescence-microscopic, biochemical, and electron-microscopic studies. **Cell Tissue Res.** **181**, 493 – 503 (1977)
9. Drenckhahn, D., Gröschel-Stewart, U., Unsicker, K.: Immunofluorescence-microscopic demonstration of myosin and actin in salivary glands and exocrine pancreas of the rat. **Cell Tissue Res.** **183**, 273 – 279 (1977)
10. Drenckhahn, D., Unsicker, K., Griesser, G.H., Schumacher, U., Gröschel-Stewart, U.: Different myosins in myoid and endodermal reticular epithelial cells of the thymus. An immunocytochemical study using specific antibodies against striated and smooth muscle myosin. **Cell Tissue Res.** **187**, 97 – 103 (1978)
11. Unsicker, K., Drenckhahn, D., Gröschel-Stewart, U., Schumacher, U., Griesser, G.H.: Immunohistochemical evidence of myosin in peripheral nerves and spinal cord of the rat. **Neuroscience** **3**, 301 – 306 (1978)
12. Unsicker, K., Drenckhahn, D., Gröschel-Stewart, U.: Further immuno-fluorescence-microscopic evidence for myosin in various peripheral nerves. **Cell Tissue Res.** **188**, 341 – 344 (1978)
13. Drenckhahn, D.: Anterior polar cataract and lysosomal alterations in the lens of rats treated with the amphiphilic lipidosis-inducing drugs chloroquine and chlorphentermine. **Virchows Arch. B Cell Path.** **27**, 255 – 266 (1978)
14. Drenckhahn, D., Lüllmann-Rauch, R.: Drug-induced retinal lipidosis: Differential susceptibilities of pigment epithelium and neuroretina towards several amphiphilic cationic drugs. **Exp. Mol. Path.** **28**, 360 – 371 (1978)
15. Bockhardt, H., Drenckhahn, D., Lüllmann-Rauch, R.: Amiodarone-induced lipidosis-like alterations in ocular tissue of rats. **Albrecht v. Graefes Arch. klin. exp. Ophthalm.** **207**, 91 – 96 (1978)
16. Braak, E., Drenckhahn, D., Unsicker, K., Gröschel-Stewart, U.: Distribution of myosin and the glial fibrillary acidic protein (GFA protein) in rat spinal cord and in the human frontal cortex as revealed by immunofluorescence microscopy. **Cell Tissue Res.** **191**, 493 – 499 (1978)
17. Drenckhahn, D., Jeikowski, H.: The myotendinous junction of the smooth feather muscles (mm. pennati). A light and electron microscopic study on a myoelastic system. **Cell Tissue Res.** **194**, 151 – 162 (1978)
18. Drenckhahn, D., Lüllmann-Rauch R.: Experimental myopathy induced by amphiphilic cationic compounds including several psychotropic drugs. **Neuroscience** **4**, 549 – 562 (1979)
19. Müller, H., Drenckhahn, D., Haase, E.: Vergleichende quantitative und ultrastrukturelle Untersuchungen am Geruchsorgan von vier Haustaubenrassen. **Z. mikr.-anat. Forsch.** **93**, 888 – 900 (1979)
20. Drenckhahn, D., Lüllmann-Rauch, R.: Drug-induced experimental lipidosis in the nervous system. **Neuroscience** **4**, 697 – 712 (1979)
21. Buchheim, W., Drenckhahn, D., Lüllmann-Rauch, R.: Freeze-fracture studies of cytoplasmic inclusions occurring in experimental lipidosis as induced by amphiphilic cationic drugs. **Biochim. Biophys. Acta** **575**, 71 – 80 (1979)
22. Drenckhahn, D., von Gaudecker, B., Müller-Hermelink, H.K., Unsicker K., Gröschel-Stewart, U.: Myosin and actin containing cells in the human postnatal thymus. Ultrastructural and immunohistochemical findings in normal thymus and Myasthenia gravis. **Virchows Arch. B Cell Path.** **32**, 33 – 49 (1979)
23. Drenckhahn, D., Steffens, R., Gröschel-Stewart, U.: Immunocytochemical localization of myosin in the brush border region of the intestinal epithelium. **Cell Tissue Res.** **205**, 163 – 166 (1980)
24. Drenckhahn, D., Gröschel-Stewart, U.: Localization of myosin, actin, and tropomyosin in rat intestinal epithelium. Immunocytochemical studies at the light- and electron microscopic levels. **J. Cell Biol.** **86**, 475 – 482 (1980)
25. Müller-Hermelink, H.-K., von Gaudecker, B., Drenckhahn, D., Jaworsky, K., Feldmann, C.: Fibroblastic and dendritic reticulum cells of lymphoid tissue. Ultrastructural, histochemical and ³H-thymidine labeling studies. **J. Cancer Res. Clin. Oncol.** **101**, 149 – 164 (1981)
26. Jeikowski, H., Drenckhahn, D.: Evidence for exclusive adrenergic innervation of feather muscles (mm. pennati) in the chicken. Histochemical studies and experiments with 5-hydroxydopamine. **Cell Tissue Res.** **221**, 157 – 168 (1981)
27. Hofmann, H.-D., Drenckhahn, D.: Distribution of nerve growth factor in the submandibular gland of the male and female mouse. A re-examination by use of an improved immunohistochemical procedure. **Cell Tissue Res.** **221**, 77 – 83 (1981)
28. Scholey, J.M., Smith, R.C., Drenckhahn, D., Gröschel-Stewart, U., Kendrick-Jones, J.: Thymus myosin. Isolation and characterization of myosin from calf thymus and thymic lymphocytes, and studies on the effect of phosphorylation of its 20.000 Mr light chain. **J. Biol. Chem.** **257**, 7737 – 7745 (1982)
29. Mannherz, H.-G., Kreuder, U., Koch, J., Dieckhoff, J., Drenckhahn, D.: The inhibition of bovine and rat parotid deoxyribonuclease I by skeletal muscle actin: a biochemical and immunocytochemical study. **Biochem. J.** **207**, 305 – 313 (1982)
30. Drenckhahn, D., Kellner, J., Mannherz, H.G., Gröschel-Stewart, U., Kendrick-Jones, J., Scholey, J.: Absence of myosin-like immunoreactivity in stereocilia of cochlear hair cells. **Nature** **300**, 531 – 532 (1982)
31. Gröschel-Stewart U., Drenckhahn D.: Muscular and cytoplasmic contractile proteins – biochemistry, immunology, structural organization. **Collagen related Res.** **2** (5), 381 – 463 (1982)
32. Drenckhahn, D., Gröschel-Stewart, U., Kendrick-Jones, J., Scholey, J.M.: Antibody to thymus myosin. Its immunological characterization and application for immuno-cytochemical localization of myosin in various nonmuscle cells. **Eur. J. Cell Biol.** **29**, 100 – 111 (1983)

33. Drenckhahn, D., Hofmann, H.-D., Mannherz, H.-G.: Evidence for the association of villin with core filaments and rootlets of intestinal epithelial microvilli. **Cell Tissue Res.** **228**, 409 – 414 (1983)
34. Drenckhahn, D., Mannherz, H.-G.: Distribution of actin and actin-associated proteins myosin, tropomyosin, alpha-actinin, vinculin, and villin in rat and bovine exocrine glands. **Eur. J. Cell Biol.** **30**, 167 – 176 (1983)
35. Drenckhahn, D., Jacobi, B., Lüllmann-Rauch, R.: Corneal lipidosis in rats treated with amphiphilic cationic drugs. **Drug. Res.** **33**, 827 – 831 (1983)
36. Drenckhahn, D.: Cell motility and cytoplasmic filaments in vascular endothelium. **Prog. appl. Microcirc.** **1**, 53 – 70 (1983)
37. Drenckhahn, D., Kaiser, H.-W.: Evidence for the concentration of F-actin and myosin in synapses and in the plasmalemmal zone of axons. **Eur. J. Cell Biol.** **31**, 235 – 240 (1983)
38. Drenckhahn, D., Frotscher, M., Kaiser, H.-W.: Concentration of F-actin in synaptic formations of the hippocampus as visualized by staining with fluorescent phalloidin. **Brain Res.** **300**, 381 – 384 (1984)
39. Drenckhahn, D., Zinke, K., Schauer, U., Appell, K.C., Low, P.S.: Identification of immunoreactive forms of human erythrocyte band 3 in nonerythroid cells. **Eur. J. Cell Biol.** **34**, 144 – 150 (1984)
40. Franke, R.-P., Gräfe, M., Schnittler, H., Seiffge, D., Mittermayer, C., Drenckhahn, D.: Induction of human vascular endothelial stress fibres by fluid shear stress. **Nature** **307**, 648 – 649 (1984)
41. Drenckhahn, D., Wagner, H.-J.: Relation of retinomotor responses and contractile proteins in vertebrate retinas. **Eur. J. Cell Biol.** **37**, 156 – 168 (1985)
42. Drenckhahn, D., T. Schäfer, M. Prinz: Actin, myosin, and associated proteins in the vertebrate auditory and vestibular organs: immunocytochemical and biochemical studies. In: D. Drescher (ed.): Auditory Biochemistry. Charles C. Thomas, Springfield 1985, pp. 317 – 335.
43. Low, P.S., Waugh, S.M., Zinke, K., Drenckhahn, D.: The role of hemoglobin denaturation and band 3 clustering in red blood cell aging. **Science** **227**, 531 – 533 (1985)
44. Drenckhahn, D., Schlüter, K., Allen, D.P., Bennett, V.: Colocalization of band 3 with ankyrin and spectrin at the basal membrane of intercalated cells in the rat kidney. **Science** **230**, 1281 – 1289 (1985)
45. Drenckhahn, D., Wagner, H.-J.: Stress fibres in the splenic sinus endothelium in situ: Molecular structure, relationship to the extracellular matrix, contractility. **J. Cell Biol.** **102**, 1738 – 1747 (1986)
46. Schlüter, K., Drenckhahn, D.: Co-clustering of denatured hemoglobin with band 3: Its role in binding of autoantibodies against band 3 to abnormal and aged red blood cells. **Proc. Natl. Acad. Sci. USA** **83**, 6137 – 6141 (1986)
47. Drenckhahn, D., Pollard, T.D.: Elongation of actin filaments is a diffusion-limited reaction at the barbed end and is accelerated by inert molecules. **J. Biol. Chem.** **261**, 12754 – 12758 (1986)
48. Drenckhahn, D., Gress, T., Franke, R.P.: Vascular endothelial stress fibres: Their potential role in protecting the vessel wall from rheological damage. **Klin. Wochenschr.** **64**, 986 – 988 (1986)
49. Drenckhahn, D., Franz, H.: Identification of actin, alpha-actinin, and vinculin-containing plaques at the lateral membrane of epithelial cells. **J. Cell Biol.** **102**, 1943 – 1952 (1986)
50. Drenckhahn, D., Oelmann, M., Schaaf, P., Wagner, M., Wagner, S.: Band 3 is the basolateral anion exchanger of the dark epithelial cells of the turtle urinary bladder. **Am. J. Physiol.** **252** (Cell Physiol. **21**), C 570 – C 574 (1987)
51. Wagner S., Vogel, R., Lietzke, R., Koob, R., Drenckhahn, D.: Immunochemical characterization of a band 3-like anion exchanger in the collecting duct of the human kidney. **Am. J. Physiol.** **253** (Renal Fluid Electrolyte Physiol. **22**), F213 – D221 (1987)
52. Drenckhahn, D., Bennett, V.: Polarized distribution of Mr = 210,000 and 190,000 analogs of erythrocyte ankyrin along the plasma membrane of transporting epithelia, neurons and photoreceptors. **Eur. J. Cell Biol.** **43**, 479 – 486 (1987)
53. Thieleczek, R., Behle, G., Messer, A., Varsanyi, M., Heilmeyer, L.M.G., Drenckhahn, D.: Localization of phosphorylase kinase subunits at the sarcoplasmic reticulum of rabbit skeletal muscle by monoclonal and polyclonal antibodies. **Eur. J. Cell Biol.** **44**, 333 – 340 (1987)
54. Waheed, A., Van Etten, R.L., Koob, R., Drenckhahn, D.: Targeting of phosphomannosyl-deficient arylsulfatase A to lysosomes of I-cell fibroblasts. **Eur. J. Cell Biol.** **45**, 262 – 267 (1987)
55. Drenckhahn, D., Waheed, A., Van Etten, R.: Demonstration of prostatic-type acid phosphatase in non-lysosomal granules in the crypt epithelium of the human duodenum. **Histochemistry** **88**, 47 – 52 (1987)
56. Drenckhahn, D., Merte, C.: Restriction of the human kidney band 3-like anion exchanger to specialized subdomains of the basolateral plasma membrane of intercalated cells. **Eur. J. Cell Biol.** **45**, 107 – 115 (1987)
57. Koob, R., Zimmermann, M., Schoner, W., Drenckhahn, D.: Colocalization and coprecipitation of ankyrin and Na⁺/K⁺-ATPase in kidney epithelial cells. **Eur. J. Cell Biol.** **45**, 230 – 237 (1987)
58. Drenckhahn, D., Beckerle, M., Burridge, K., Otto, J.: Identification and subcellular location of talin in various cell types and tissues by means of (¹²⁵I) vinculin overlay, immunoblotting and immunocytochemistry. **Eur. J. Cell Biol.** **46**, 513 – 522 (1988)
59. Drenckhahn, D., Dermietzel, R.: Organization of the actin filament cytoskeleton in the intestinal brush border: A quantitative and qualitative immunoelectron microscope study. **J. Cell Biol.** **107**, 1037 – 1048 (1988)
60. Drenckhahn, D., Franke, R.-P.: Ultrastructural organization of contractile and cytoskeletal proteins in glomerular podocytes of chicken, rat, and man. **Lab. Invest.** **59**, 673 – 682 (1988)
61. Störkel, S., Pannen, B., Thoenes, W., Steart, P.V., Wagner, S., Drenckhahn, D.: Intercalated cells as a probable source for the development of renal oncocytoma. **Virchows Arch. Cell Pathol.** **56**, 185 – 189 (1988)
62. Suttrop, N., Hess, T., Seeger, W., Wilke, A., Koob, R., Lutz F., Drenckhahn, D.: Bacterial exotoxins and endothelial permeability for water and albumin in vitro. **Am. J. Physiol.** **255** (Cell Physiol. **24**), C 368 – C 376 (1988)
63. Achler, C., Filmer, D., Merte, C., Drenckhahn, D.: Role of microtubules in polarized delivery of apical membrane proteins to the brush border of the intestinal epithelium. **J. Cell Biol.** **109**, 179 – 189 (1989)
64. Kuroda, K., Gröner, A., Frese, K., Drenckhahn, D., Hauser, C., Rott, R., Doerfler, W., Klenk, H.-D.: Synthesis of biologically active influenza virus hemagglutinin in insect larvae. **J. Virol.** **63**, 1677 – 1685 (1989)
65. Radsak, K., Fuhrmann, R., Franke, R.-P., Schneider, D., Kollert, A., Brücher, K.H., Drenckhahn, D.: Induction by sodium butyrate of cytomegalovirus replication in human endothelial cells. **Arch. Virol.** **107**, 151 – 158 (1989)
66. Friedrichs, B., Koob, R., Kraemer, D., Drenckhahn, D.: Demonstration of immunoreactive forms of erythrocyte protein 4.2 in nonerythroid cells and tissues. **Eur. J. Cell Biol.** **48**, 121 – 127 (1989)

67. Störkel, S., Steart, P.V., Drenckhahn, D., Thoenes, W.: The human chromophobe cell renal carcinoma: Its probable relation to intercalated cells of the collecting duct. **Virchows Arch. B Cell Pathol.** **56**, 237 – 245 (1989)
68. Schnittler, H., Franke, R.P., Drenckhahn, D.: Role of the actin filament cytoskeleton in rheology and permeability. **Z. Kardiol.** **78**, 1 – 4 (1989)
69. Tilney, M.S., Tilney, L.G., Stephens, R.E., Merte, C., Drenckhahn, D., Cotanche, D.A., Bretscher, A.: Preliminary biochemical characterization of the stereocilia and cuticular plate of hair cells of the chick cochlea. **J. Cell Biol.** **109**, 1711 – 1723 (1989)
70. Suttorp, N., Fuchs, T., Seeger, W., Wilke, A., Drenckhahn, D.: Role of Ca^{2+} and Mg^{2+} for endothelial permeability of water and albumin in vitro. **Lab. Invest.** **61**, 183 – 191 (1989)
71. Schnittler, H., Wilke, A., Gress, T., Suttorp, N., Drenckhahn, D.: Role of actin and myosin in the control of paracellular permeability in pig, rat and human vascular endothelium. **J. Physiol.** **431**, 379 – 401 (1990)
72. Drenckhahn, D., Schnittler, H., Nobiling, R., Kriz, W.: Ultrastructural organization of contractile proteins in rat glomerular mesangial cells. **Am. J. Pathol.** **137**, 1343 – 1351 (1990)
73. Kraemer, D., Koob, R., Friedrichs, B., Drenckhahn, D.: Two novel peripheral membrane proteins, pasin 1 and pasin 2, associated with Na^+ , K^+ -ATPase in various tissues. **J. Cell Biol.** **111**, 2375 – 2383 (1990)
74. Koob, R., Kraemer, D., Trippe, G., Aebi, U., Drenckhahn, D.: Association of kidney and parotid Na^+ , K^+ -ATPase microsome, with actin and analogs of spectrin and ankyrin. **Eur. J. Cell Biol.** **53**, 93 – 100 (1990)
75. Drenckhahn, D., Engel E., Höfer, D., Merte, C., Tilney, M., Tilney, L.: Three different actin filament assemblies occur in every hair cell: Each contains a specific actin cross linking protein. **J. Cell Biol.** **112**, 641 – 651 (1991)
76. Nehls, V., Drenckhahn, D.: Heterogeneity of microvascular pericytes for smooth muscle α -actin. **J. Cell Biol.** **113**, 147 – 154 (1991)
77. Drenckhahn, D., Merte, C., v. Düring, M., Smolders, J., Klinke, R.: Actin, myosin and α -actinin containing filament bundles in hyaline cells of the caiman cochlea. **Hearing Res.** **54**, 29 – 38 (1991)
78. Ruangjirachuporn W. J., Udomsangpetch, R., Carlsson, J., Drenckhahn, D., Perlmann P., Berzins, K.: Plasmodium falciparum: Analysis of the interaction of antigen Pf155/RESA with the erythrocyte membrane. **Experimental. Parasitol.** **73**, 62 – 72 (1991)
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