

Publications

Jeppe Praetorius
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Born August 4th 1965, Glostrup, Denmark

Education and postgraduate positions

2010- Professor MSO in epithelial cell biology, Department of Biomedicine, Aarhus University (AU)
2009 Aquired title of dr.med. (DMSc), AU
2005-9 Associate professor, Institute of Anatomy, AU
2002-5 Assistant professor, Institute of Anatomy, AU
2000-2 Visiting Fellow (postdoc), Section for Transport Physiology, LKEM, NIH, Bethesda, MD, USA
2000 Aquired PhD degree, University of Southern Denmark - Odense (SDU)
1996-99 PhD stipendiate, Institute for Medical Biology, SDU
1995-6 Internships, military duty
1994 Graduated from medical school, Odense University (OU)
1992 Diploma in Medical Research, Department of Pharmacology, OU

International meetings

2013 Experimental Biology (FASEB), Boston, MA, USA 45. Meeting on Membrane Transport, Sandbjerg Gods, AU

2012 Experimental Biology (FASEB), San Diego, CA, USA Society for Experimental Biology, Annual Main Meeting, Salzburg, AT 4. Meeting on Molecular Approaches to Membrane Transport, Scand Phys Soc, Sigtuna, SE

2011 Experimental Biology (FASEB), Washington, DC, USA Annual Meeting of the Scandinavian Physiological Society, Bergen, NO International Bicarbonate Transport Meeting, AU
7th International Symposium on Aldosterone and the ENaC/Degenerin Family of Ion Channels: Molecular Mechanisms and Pathophysiology, Pacific Grove, CA, USA

2010 Joint Meeting of the Scandinavian and German Physiological Societies, University of Copenhagen (KU), DK 53rd Annual Meeting of the Canadian Society for Biochemistry, Molecular and Cellular Biology, Banff, Alberta, CA Experimental Biology (FASEB), Anaheim, CA, USA

2009 Experimental Biology (FASEB), New Orleans, LA, USA Letten Research Centre Opening and WIRED meeting, University of Oslo, NO ISN Frontiers Symposium on Renal and Extrarenal Control of Acid-base Homeostasis in Health Disease, Firenze, IT 5th Borrelli Conference Acid-base and electrolyte balance: from bench to clinic, Napoli, IT TRP Channels: From Sensory Signaling to Human Disease, Karolinska Institutet, Stockholm, SE

2008 Experimental Biology (FASEB), San Francisco, CA, USA 40. Meeting on Membrane Transport, Sandbjerg Gods, AU 1st international Meeting on Brain Aquaporins, Oslo, NO

2007 World Congress of Nephrology (ICN), Rio de Janeiro, Brazil 6th International Symposium on Aldosterone and ENaC: from gene to disease. Zermatt, CH

2006 Experimental Biology (FASEB), San Francisco, CA, USA Focused Meeting on Frontiers in Epithelial Transport (Fysoc), Manchester, UK 3rd Key Symposium: Membrane transport proteins in health and disease (R Sw Acad Sci), Stockholm, Sverige 38. Meeting on Membrane Transport, Sandbjerg Gods, AU

2005 Experimental Biology (FASEB), San Diego, CA, USA 37.th Meeting on membrane Transport, Sandbjerg Gods, AU

2004 Experimental Biology (FASEB), Washington DC, USA

2003 PhysPharm (Nordisk Fysiologisk Forening), SDU NorFa workshop on water transport and volume regulation, Gålå, Norge

2002 Renal Week (American Society of Nephrology), Philadelphia, PA, USA

2001 Experimental Biology (FASEB), Orlando, Florida, USA

1999 Molecular Physiology of Chloride Channels & Acid/Base Transporters in Epithelial Cells, The British Physiological Society, Manchester, England

- 1998 10th International Conference on Second Messengers and Phosphoproteins, Jerusalem, Israel
31. Meeting on Membrane Transport, Sandbjerg Gods, AU
- 1996 Fall meeting. Nordic Physiological Society, Helsinki University, Finland
- 1992 XX Nordic Congress of Physiology & Pharmacology, KU
- 1991 24. Meeting on membrane Transport, Sandbjerg Gods, AU

Invited speaker

- 2013 Department of Pathology, Harvard Medical School - Boston Children's Hospital Boston, MA, USA
Department of Physiology, Emory University School of Medicine, Atlanta, GA, USA
- 2012 Society for Experimental Biology, Annual Main Meeting, Salzburg, AU 4. meeting on Molecular
Approaches to Membrane Transport, Scand Phys Soc, Sigtuna, SE
- 2011 Annual Meeting of the Scandinavian Physiological Society, Bergen, NO International Sapere
Aude Bicarbonate Transport Meeting, AU
- 2010 Annual Meeting of the Scandinavian Physiological Society, Kbh, DK 53rd Annual Mtg. &
Conference Can Soc Biochem Mol Cell Biol, Banff, Canada Dept of Physiol Biophys, Case
Western Reserve University, Cleveland, OH, USA
- 2009 L'Institut de Pharmacologie de l'Université de Lausanne, Suisse Danish Spring Meeting on
Transgenic Mouse Research, Biocenter, Kbh's Universitet Letten Research Centre Opening
and WIRED meeting, Oslo, NO 5th Borrelli Conference Acid-base and electrolyte balance: from
bench to clinic, Napoli, IT
- 2008 1st international Meeting on Brain Aquaporins, Oslo, NO
- 2006 Focused Meeting on Frontiers in Epithelial Transport (Fysoc), Manchester, UK Fysiologi &
Farmakologi, Syddansk Universitet Fysiologisk Institut, Aarhus Universitet
- 2005 Experimental Biology 2005, San Diego, CA, USA
- 2004 Department of Pharmacology, University of Cambridge, England
- 2003 Fysiologisk Institut, Aarhus Universitet
- 2001 Vand og Salt Centeret, Aarhus Universitet Fysiologi & Farmakologi, Syddansk Universitet
- 2000 NHLBI, National Institutes of Health, Bethesda, MD, USA
- 1999 Fysiologi & Farmakologi, Syddansk Universitet Medicinsk Gastroenterologisk Afd., Odense
Universitetshospital
- 1998 Afd. for Farmakologi, Odense Universitet
- 1991 Danish Society for Pharmacology, Pharm. Inst., University of Copenhagen

Teaching

More than 1200 lectures and practicals in Cell biology and Histology for medical and molecular medicine students, AU
Performed more than 750 oral examinations in Cell biology and Histology, AU
Censored more than 750 students in written exams, SDU Module 6 (Gastrointestinal anatomy, histology, physiology,
biochemistry and nutrition) and SDU Module 4 (Skeletal system anatomy, histology, muscle physiology/biochemistry and
occupational medicine)
Lectures in Pharmacology for medical and biomedical students, SDU
Taught microscopy, antibody-techniques, structure-function analysis of membrane proteins, and renal physiology at PhD
courses and summer schools, AU

Scientific supervision and censorship

Main supervisor for PhD students Helle H Damkier, Marlene V Hofmeister, Janne Lebeck, Muhammad Umar Cheema,
Henriette Lajgaard Christensen, and Inga Baash Christensen.
Co-supervisor for PhD students Jacob Nielsen, Hanne B Møller, Ebbe Bødtkier, Anna Mrovec, Elena V Bouzinova,
Sabina Jelen, Lena Lindtoft Rosenbæk, Søren Poulsen, Anders Dæhli Skjolding.
Main supervisor for medical research year students Helle H Damkier, Thomas Buus Jensen, Søren Olesen
Co-supervisor for medical research year students Uffe Kjær Schou, Christian Daugaard Peters, Janne Lebeck, An Tuyet
Nguyen.
Censor of 2 PhD defences (KU and Cambridge University, UK), 4 Medical research year defences (2 AU, 3 SDU), 3
Masters defences (KU and AU), >15 Bachelor theses (AU, SDU, KU).
Heading 5 PhD evaluation committees (AU).

Society memberships

- 2012- American Society of Nephrology
- 2011- Danish Hypertension Society Danish Heart Association
- 2010- Danish Biochemical Society
- 1999- Scandinavian Physiological Society American Physiological Society
- 1994- Danish Medical Society

Other academic and administrative work

Reviewer for: Comprehensive Physiology; Physiology; Pflügers Archives; PloS-One; Neuroscience; Br. J. Pharmacol; Am J Physiol – Renal/Comparative/Circulatory/Gastroint Liver; Nephron; Cell Physiol Biochem; Acta Physiol Scand; Cerebrospinal Fluid Research; Cell Physiol Biochem; FEBS Lett.

Grant review: National Science Foundation (USA); Medical Research Council (UK).

Editorial Board of Am J Physiol – Renal Physiol (2005-08).

Chairman for sessions at Experimental Biology, FASEB, USA (2004, 2011x2) and multiple international symposia GF center or EU network meetings.

Organizer and chairman of session at the 38. Meeting on Membrane Transport, Sandbjerg Gods, AU (2006). Organizer and chairman for Experimental Biology symposium, FASEB (2012, 2013) and arranged an accepted symposium for the same series in 2014. Main organizer, keynote speaker, and session chairman 4. meeting on Molecular Approaches to Membrane Transport, Scand Phys Soc, Sigtuna, SE.

Former Dept. Anatomy, AU: vice-head of Institute (2008-2011), the animal facility board (2005-10), member of teaching board (2006-), research board (2007-11).

Dept. Biomedicine, AU: member of institute forum (2011-13) and research board (2011-13), vice-head of Department (2011-12). Member of the Center for Transgene Technology, AU (2006-), Member of the Water and Salt Research Center board, AU (2007-11). Current member of the research network Membranes (interdisciplinary, AU), and the AU Ideas pilot center, InterPrET.

Main local collaborators

Health, AU

Helle Hasager Damkier, Department of Biomedicine

Robert A Fenton, Department of Biomedicine

Birgitte Mønster Christensen, Department of Biomedicine

Sebastian Frische, Department of Biomedicine

Christian Aalkjær, Department of Biomedicine

Ebbe Bødtkjer, Department of Biomedicine

Science and Technology, AU

Lene Niemann Nejsum, Department of Molecular Biology and Genetics

Jan J Enghild, Department of Molecular Biology and Genetics

Hans Malte and Tobias Wang, Department of Bioscience - Zoophysiology

Publications

Cerebrospinal fluid pH regulation

Damkier, H. H. & Praetorius, J., Apr 2024, In: Pflügers Archiv - European Journal of Physiology. 476, 4, p. 467-478 12 p.

The Cyst Epithelium in Polycystic Kidney Disease Patients Displays Normal Apical-Basolateral Cell Polarity

Sandegaard, S. L., Riishede, A., Birn, H., Damkier, H. H. & Praetorius, J., 5 Feb 2024, In: International Journal of Molecular Sciences . 25, 3, 1904.

Absence of E-Cadherin and β -Catenin in the Basal Plasma Membrane of Collecting Duct Cells During NDI Development and Recovery

Sørtvedt, X., Nielsen, R., Praetorius, J. & Christensen, B. M., Jul 2023, In: Journal of Histochemistry and Cytochemistry. 71, 7, p. 221554231185809 19 p.

Regulation of Ncbe in the Choroid Plexus of Mice after Hemorrhage-Induced Hydrocephalus

Johnsen, L., Friis, K. A., Ryø, L. B., Mikkelsen, J. G., Lindhardt, T. B., Knopper, R. W., Hansen, B., Praetorius, J. & Damkier, H. H., May 2022, In: The FASEB Journal. 36, S1

Circulating ghrelin crosses the blood-cerebrospinal fluid barrier via growth hormone secretagogue receptor dependent and independent mechanisms

Uriarte, M., De Francesco, P. N., Fernández, G., Castrogiovanni, D., D'Arcangelo, M., Imbernon, M., Cantel, S., Denoyelle, S., Fehrentz, J. A., Praetorius, J., Prevot, V. & Perello, M., Dec 2021, In: Molecular and Cellular Endocrinology. 538, 12 p., 111449.

Multiple Na,K-ATPase Subunits Colocalize in the Brush Border of Mouse Choroid Plexus Epithelial Cells

Baasch Christensen, I., Cheng, L., Brewer, J. R., Bartsch, U., Fenton, R. A., H Damkier, H. & Praetorius, J., Feb 2021, In: International Journal of Molecular Sciences . 22, 4, p. 1-27 27 p., 1569.

The devil is in the C-tail: a NBCe1-carbonic anhydrase bicarbonate transport metabolon?

Praetorius, J., 15 Dec 2020, In: *Journal of Physiology*. 598, 24, p. 5595-5596 2 p.

Slimhindeimmunitet i fordøjelseskanalen

Vorup-Jensen, T., Praetorius, J., Dige, A. K. & Holm, C. K., Dec 2020, *Immunologi*. Holm, C. K. (ed.). 2 ed. Roskilde: FADL's Forlag, p. 213-224

NBCe2 (Slc4a5) Is Expressed in the Renal Connecting Tubules and Cortical Collecting Ducts and Mediates Base Extrusion

Barbuskaite, D., Pedersen, F. D., Christensen, H. L., Johnsen, L. Ø., Praetorius, J. & Damkier, H. H., May 2020, In: *Frontiers in Physiology*. 11, 560.

Acid/base transporters in CSF secretion and pH regulation

Barbuskaite, D., Damkier, H. H. & Praetorius, J., 2020, *Role of the choroid plexus in health and disease*. Praetorius, J., Blazer-Yost, B. & Damkier, H. H. (eds.). New York: Springer, p. 149-171 (Physiology in Health and Disease).

Genetic disruption of slc4a10 alters the capacity for cellular metabolism and vectorial ion transport in the choroid plexus epithelium

Christensen, I. B., Wu, Q., Bohlbro, A. S., Skals, M. G., Damkier, H. H., Hübner, C. A., Fenton, R. A. & Praetorius, J., 2020, In: *Fluids and Barriers of the CNS*. 17, 1, 18 p., 2.

Ion Transport in the Choroid Plexus Epithelium

Johnsen, L. Ø., Damkier, H. H. & Praetorius, J., 2020, *Ion transport across epithelial tissues and disease: Ion Channels and Transporters of Epithelia in Health and Disease : Vol. 2*. Hamilton, K. L. & Devor, D. C. (eds.). 2 ed. p. 333-361 (Physiology in Health and Disease).

Structure of the mammalian choroid plexus

Damkier, H. H. & Praetorius, J., 2020, *Role of the choroid plexus in health and disease*. Praetorius, J., Blazer-Yost, B. & Damkier, H. H. (eds.). New York: Springer, p. 1-33 (Physiology in Health and Disease).

Early Hearing Loss upon Disruption of Slc4a10 in C57BL/6 Mice

Huebner, A. K., Maier, H., Maul, A., Nietzsche, S., Herrmann, T., Praetorius, J. & Hübner, C. A., 2019, In: *Journal of the Association for Research in Otolaryngology*. 20, 3, p. 233-245 13 p.

The choroid plexus sodium-bicarbonate cotransporter NBCe2 regulates mouse cerebrospinal fluid pH

Christensen, H. L., Barbuskaite, D., Rojek, A., Malte, H., Christensen, I. B., Füchtbauer, A. C., Füchtbauer, E.-M., Wang, T., Praetorius, J. & Damkier, H. H., Oct 2018, In: *The Journal of Physiology*. 596, 19, p. 4709-4728 20 p.

Adenylyl cyclase 6 is required for maintaining acid-base homeostasis

Poulsen, S. B., Marin De Evsikova, C., Murali, S. K., Praetorius, J., Chern, Y., Fenton, R. A. & Rieg, T., 31 Aug 2018, In: *Clinical Science*. 132, 16, p. 1779-1796 18 p.

Choroid plexus epithelial cells express the adhesion protein P-cadherin at cell-cell contacts and syntaxin-4 in the luminal membrane domain

Christensen, I. B., Mogensen, E. N., Damkier, H. H. & Praetorius, J., May 2018, In: *American Journal of Physiology: Cell Physiology*. 314, 5, p. C519-C533 15 p.

The murine choroid plexus epithelium expresses the 2Cl⁻/H⁺-exchanger CIC-7 and Na⁺/H⁺ exchanger NHE6 in the luminal membrane domain

Damkier, H. H., Christensen, H. L., Christensen, I. B., Wu, Q., Fenton, R. A. & Praetorius, J., Apr 2018, In: *American Journal of Physiology: Cell Physiology*. 314, 4, p. C439-C448 10 p.

Transport across the Choroid Plexus Epithelium

Praetorius, J. & Damkier, H. H., 1 Jun 2017, In: *American Journal of Physiology: Cell Physiology*. 312, 6, p. C673-C686 ajpcell.00041.2017.

The choroid plexus sodium-bicarbonate cotransporter NBCe2 regulates cerebrospinal fluid pH

Barbuskaite, D., Praetorius, J., Christensen, H. L., Rojek, A., Nielsen, H. M., Fuchtbauer, E.-M., Wang, T. & Damkier, H. H., Apr 2017, In: F A S E B Journal. 31, 1 p.

The V-ATPase is expressed in the choroid plexus and mediates cAMP-induced intracellular pH alterations

Christensen, H. L., Păunescu, T. G., Matchkov, V., Barbuskaite, D., Brown, D., Damkier, H. H. & Praetorius, J., 3 Jan 2017, In: Physiological Reports. 5, 1, no. e13072.

Isolating subpopulations of human epidermal basal cells based on polyclonal serum against trypsin-resistant CSPG4 epitopes

Gunnarsson, A. P. A., Christensen, R., Praetorius, J. & Jensen, U. B., 20 Dec 2016, In: Experimental Cell Research. 350, 2, p. 368-379 12 p.

Extracellular superoxide dismutase is present in secretory vesicles of human neutrophils and released upon stimulation

Iversen, M. B., Gottfredsen, R. H., Larsen, U. G., Enghild, J. J., Praetorius, J., Borregaard, N. & Petersen, S. V., Aug 2016, In: Free Radical Biology & Medicine. 97, p. 478-88 11 p.

The zinc transporter ZNT3 co-localizes with insulin in INS-1E pancreatic beta cells and influences cell survival, insulin secretion capacity, and ZNT8 expression

Smidt, K., Larsen, A., Brønden, A., Sørensen, K. S., Nielsen, J. V., Praetorius, J., Martensen, P. M. & Rungby, J., 11 Feb 2016, In: BioMetals. 29, 2, p. 287-298 12 p.

Reducing α ENaC expression in kidney connecting tubule induces pseudohypoaldosteronism type 1 symptoms during K⁺ loading

Poulsen, S. B., Praetorius, J., Damkier, H. H., Miller, L., Nelson, R. D., Hummler, E. & Christensen, B. M., 2016, In: American Journal of Physiology: Renal Physiology. 310, 4, p. F300-F310 11 p.

Reply to Orešković et al

Damkier, H. H., Brown, P. D. & Praetorius, J., 2016, In: Physiological Reviews. 96, 4, p. 1663-4 2 p.

Renal type a intercalated cells contain albumin in organelles with aldosterone-regulated abundance

Jensen, T. B., Cheema, M. U., Szymiczek, A., Damkier, H. H. & Praetorius, J., 2015, In: PLOS ONE. 10, 4, p. e0124902

Hepatic AQP9 expression in male rats is reduced in response to PPAR α agonist treatment

Lebeck, J., Cheema, M. U., Skowronski, M. T., Nielsen, S. & Praetorius, J., 4 Dec 2014, In: American Journal of Physiology: Gastrointestinal and Liver Physiology. p. ajpgi.00407.2013

Coordinated regulation of TRPV5-mediated Ca(2⁺) transport in primary distal convolution cultures

van der Hagen, E. A. E., Lavrijsen, M., van Zeeland, F., Praetorius, J., Bonny, O., Bindels, R. J. M. & Hoenderop, J. G. J., Nov 2014, In: Pflügers Archiv - European Journal of Physiology. 466, 11, p. 2077-2087 11 p.

Comparison of two phenotypically distinct lattice corneal dystrophies caused by mutations in the transforming growth factor beta induced (TGFB1) gene

Poulsen, E. T., Runager, K., Risør, M. W., Dyrland, T. F., Scavenius, C., Karring, H., Praetorius, J., Vorum, H., Otzen, D. E., Klintworth, G. K. & Enghild, J. J., Apr 2014, In: Proteomics - Clinical Applications. 8, 3-4, p. 168-177 10 p.

Distal Renal Tubules Are Deficient in Aggresome Formation and Autophagy upon Aldosterone Administration

Cheema, M. U., Damkier, H. H., Nielsen, J., Poulsen, E. T., Enghild, J. J., Fenton, R. A. & Praetorius, J., 2014, In: PLOS ONE. 9, 7, p. e101258

Aldosterone and angiotensin II induced protein aggregation in renal proximal tubules

Cheema, M. U., Poulsen, E. T., Enghild, J. J., Hoorn, E., Fenton, R. A. & Praetorius, J., Sept 2013, In: Physiological Reports. 1, 4, p. e00064

Assessment of the Effect of 24-Hour Aldosterone Administration on Protein Abundance in Fluorescence-Sorted Mouse Distal Renal Tubules by Mass Spectrometry

Jensen, T. B., Pisitkun, T., Hoffert, J. D., Jensen, U. B., Fenton, R. A., Praetorius, H. A., Knepper, M. A. & Prætorius, J., 2013, In: NEPHRON PHYSIOLOGY. 121, 3-4, p. p9-p15

Cerebrospinal fluid secretion by the choroid plexus

Damkier, H., Brown, P. D. & Praetorius, J., 2013, In: Physiological Reviews. 93, 4, p. 1847-92 45 p.

Essential role of the electroneutral Na⁺HCO₃⁻ cotransporter NBCn1 in murine duodenal acid/base balance and colonic mucus layer build-up in vivo

Singh, A. K., Xia, W., Riederer, B., Juric, M., Li, J., Zheng, W., Cinar, A., Xiao, F., Bachmann, O., Song, P., Prætorius, J., Aalkjaer, C. & Seidler, U., 2013, In: The Journal of Physiology. 591, 8, p. 2189-2204

Insulin secretion and ZnT8 gene expression are decreased by ZnT3 overexpression

Smidt, K., Sørensen, K. S., Larsen, A., Praetorius, J., Martensen, P. M. & Rungby, J., 2013, In: Diabetologia. 56, s199

Polarization of membrane associated proteins in the choroid plexus epithelium from normal and slc4a10 knockout mice

Christensen, I. B., Gyldenholm, T., Damkier, H. & Praetorius, J., 2013, In: Frontiers in Physiology. 4, p. 344

The N-terminal cytoplasmic region of NCBE displays features of an intrinsic disordered structure and represents a novel target for specific drug screening

Bjerregaard-Andersen, K., Perdreau-Dahl, H., Guldsten, H., Praetorius, J., Jensen, J. K. & Morth, J. P., 2013, In: Frontiers in Physiology. 4, p. 320

Gender-specific effect of physical training on AQP7 protein expression in human adipose tissue

Lebeck, J., Ostergård, T., Rojek, A., Füchtbauer, E.-M., Lund, S. & Prætorius, J., Dec 2012, In: Acta Diabetologica. 49, Suppl 1, p. S215-S226 11 p.

17β-estradiol induces non-genomic effects in renal intercalated cells through the G-protein coupled estrogen receptor 1

Hofmeister, M. V., Damkier, H. H., Christensen, B. M., Olde, B., Leeb-Lundberg, L. M. F., Fenton, R. A., Praetorius, H. A. & Prætorius, J., 2012, In: American Journal of Physiology: Renal Physiology. 302, p. F358

Aquaporin-9 and urea transporter-A gene deletions affect urea transmembrane passage in murine hepatocytes

Jelen, S., Gena, P., Lebeck, J., Rojek, A., Praetorius, J., Frøkiaer, J., Fenton, R. A., Nielsen, S., Calamita, G. & Rützler, M., 2012, In: A J P: Gastrointestinal and Liver Physiology (Online). 303, 11, p. G1279-87

Brenner and Rector's; The Kidney. Anatomy of the kidney

Nielsen, S., Kwon, T.-H., Fenton, R. A. & Prætorius, J., 2012, Elsevier Saunders. 63 p.

Depletion of SLC4A11 causes cell death by apoptosis in an immortalized human corneal endothelial cell line

Liu, J., Seet, L.-F., Koh, L. W., Venkatraman, A., Venkataraman, D., Mohan, R. R., Prætorius, J., Bonanno, J. A., Aung, T. & Vithana, E. N., 2012, In: Investigative Ophthalmology & Visual Science. 53, 7, p. 3270-9 10 p.

Genetic ablation of Slc4a10 alters the expression pattern of transporters involved in solute movement in the mouse choroid plexus

Damkier, H. & Praetorius, J., 2012, In: American Journal of Physiology: Cell Physiology. 302, 10, p. C1452

Handbook of Physiology; Comprehensive Physiology: Molecular physiology of the medullary collecting ducts

Fenton, R. A. & Prætorius, J., 2012, Wiley-Blackwell.

Na⁺-coupled bicarbonate transporters in duodenum, collecting ducts and choroid plexus

Prætorius, J., 2012, In: J N: Journal of Nephrology. 23 Suppl 16, p. S35-42

The electroneutral Na⁺:HCO₃⁻ cotransporter NBCn1 is a major pH_i regulator in murine duodenum

Chen, M., Prætorius, J., Zheng, W., Xiao, F., Riederer, B., Singh, A. K., Stieger, N., Wang, J., Shull, G. E., Aalkjaer, C. & Seidler, U., 2012, In: The Journal of Physiology. 590, 14, p. 3317-33 17 p.

Disruption of Na⁺,HCO₃⁻ cotransporter NBCn1 (slc4a7) inhibits NO-mediated vasorelaxation, smooth muscle Ca²⁺ sensitivity, and hypertension development in mice

Boedtker, E., Prætorius, J., Matchkov, V. V., Stankevicius, E., Mogensen, S., Füchtbauer, A. C., Simonsen, U., Füchtbauer, E.-M. & Aalkjaer, C., 26 Sept 2011, In: Circulation. 124, 17, p. 1819-1829 11 p.

Molecular physiology of the medullary collecting duct

Fenton, R. A. & Prætorius, J., 1 Apr 2011, In: Comprehensive Physiology. 1, 2, p. 1031-1056 26 p.

The TRPV5 Promoter as a Tool for Generation of Transgenic Mouse Models

Hofmeister, M. V., Füchtbauer, E.-M., Fenton, R. A. & Prætorius, J., 1 Jan 2011, In: Advances in Experimental Medicine and Biology. 704, p. 277-86 10 p.

Estrogen prevents increased hepatic aquaporin-9 expression and glycerol uptake during starvation

Lebeck, J., Gena, P., O'Neill, H., Skowronski, M. T., Lund, S., Calamita, G. & Prætorius, J., 2011, In: American Journal of Physiology: Gastrointestinal and Liver Physiology.

Na⁺-dependent HCO₃⁻ import by the slc4a10 gene product involves Cl⁻ export

Dankier, H. H., Aalkjaer, C. & Prætorius, J., 27 Aug 2010, In: Journal of Biological Chemistry. 285, 35, p. 26998-7007 10 p.

Epithelial pathways in choroid plexus electrolyte transport

Dankier, H. H., Brown, P. D. N. & Prætorius, J., 1 Aug 2010, In: Physiology. 25, 4, p. 239-49 11 p.

Hydrocephalus induces dynamic spatiotemporal regulation of aquaporin-4 expression in the rat brain

Skjolding, A. D., Rowland, I. J., Søgaard, L. V.-C., Prætorius, J., Penkowa, M. & Juhler, M., 1 Jan 2010, In: Cerebrospinal Fluid Research. 7, p. 20

Ion channels and transporters in secretory and cyclically modulating ameloblasts.

Josephsen, K., Takano, Y., Frische, S., Prætorius, J., Nielsen, S., Aoba, T. & Fejerskov, O., 2010. 1 p.

Ion transporters in secretory and cyclically modulating ameloblasts: a new hypothesis for cellular control of preeruptive enamel maturation.

Josephsen, K., Takano, Y., Frische, S., Prætorius, J., Nielsen, S., Aoba, T. & Fejerskov, O., 2010, In: American Journal of Physiology: Cell Physiology. 299, p. C:1299-C:1307 9 p.

Phosphorylation of aquaporin-2 regulates its endocytosis and protein-protein interactions

Møller, H., Prætorius, J., Rützler, M. R. & Fenton, R. A., 2010, In: Proceedings of the National Academy of Sciences. 107, 1, p. 424-9 5 p.

Fluorescence-isolation of mouse late distal convoluted tubules and connecting tubules: effects of vasopressin and vitamin D3 on Ca²⁺ signaling.

Hofmeister, M. V., Fenton, R. & Prætorius, J., 2009, In: American Journal of Physiology: Renal Physiology. 296, 1, p. F194-203 10 p.

Na⁺-coupled acid/base transporters in epithelial research: lessons from duodenum, renal tubules and choroid plexus

Prætorius, J., 2009, SUN-TRYK, Aarhus Universitet. 41 p.

Nhe1 is a luminal Na⁺/H⁺ exchanger in mouse choroid plexus and is targeted to the basolateral membrane in Ncbe/Nbcn2-null mice

Damkier, H., Prasad, V., Hübner, C. A. & Praetorius, J., 2009, In: American Journal of Physiology: Cell Physiology. 296, 6, p. C1291-300

Rapid effects of 17beta-estradiol on TRPV5 epithelial Ca²⁺ channels in rat renal cells

Irnaten, M., Blanchard-Gutton, N., Praetorius, J. & Harvey, B. J., 2009, In: Steroids. 74, 8, p. 642-9 7 p.

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