

VIII. Literaturverzeichnis

ABRAHAM, M.R., JAHANGIR, A., ALEKSEEV, A.E., TERZIC, A. (1999):

Channelopathies of inwardly rectifying potassium channels

FASEB J. 13, 1901-1910

ARMSTRONG, C.M., LOPEZ-BARNEO, J. (1987):

External calcium ions are required for potassium channel gating in squid neurons

Science 236, 712-714

BAILEY, C.B., BALCH, C. (1961):

Saliva secretion and its relation to feeding in cattle 2. The composition and rate of secretion of mixed saliva in the cow during rest

Brit. J. Nutr. 15, 383-402

BASTL, C., KLIGER, H.J., BINDER, H.J., HAYSLETT, J.P. (1978):

Characteristics of potassium secretion in the mammalian colon

Am. J. Physiol. 234 (1), F48-F53

BLUME, I. (1981):

Beziehungen zwischen der Magnesiumresorption aus dem Pansen von Schafen und der transmuralen elektrischen Potentialdifferenz bei verschiedenen Na/K-Verhältnissen in der Pansenflüssigkeit

Dissertation, Hannover, Tierärztliche Hochschule Hannover

Literaturverzeichnis

CARE, A. D., BROWN, R. C., FARRAR, A. R., and PICKARD, D. W. (1984):

Magnesium absorption from the digestive tract of sheep

Quart. J. Exp. Physiol. 69, 577-587

CLAUSEN, C., WILLS, N. K. (1981):

Impedance analysis in epithelia

In ion transport of epithelia: Recent Advances, ed. SCHULTZ, S. G., 79-92

Raven Press, New York

CLAUSS, W., HOFFMANN, B., SCHÄFER, H., HÖRNICKE, H. (1989):

Ion transport and electrophysiology in rabbit caecum

Am. J. Physiol. 256, G1090-G1099

DIRKSEN, G., LIEBICH, H.G., BROSI, G., HAGEMEISTER, H., MAYER, E.

(1984):

Morphologie der Pansenschleimhaut und Fettsäureresorption beim Rind - bedeutende Faktoren für Gesundheit und Leistung

Zbl Vet. Med. A31, 414-430

DOBSON, A. (1959):

Active transport through the epithelium of the reticulo-rumen sac

J. Physiol. 146, 235-251

DOBSON, R.J., SCOTT, D., BRUCE, J.B. (1966):

Changes in sodium requirement of the sheep associated with changes of diet

Quart. J. Exper. Physiol. 51, 311-323

Literaturverzeichnis

DOREAU, M., FERCHAL,E., BECKERS, Y. (1997):

Effects of level of intake and of available volatile fatty acids on the absorptive capacity of sheep rumen

Small ruminant Res. 25, 99-105

DOYLE, D.A., MORAIS CABRAL, J., PFUETZNER, R.A., KUO, A., GULBIS, J.M., COHEN, S.L., CHAIT, B.T., MACKINNON, R. (1998):

The structure of the potassium channel: molecular basis of K^+ conduction and selectivity

Science 280, 69-76

EDMONDS, C.J. (1967):

Transport of potassium by the colon of normal and sodium-depleted rats

J. Physiol. 193, 603-617

ENGELHARDT, W v., BREVES,G. (2000):

Physiologie der Haustiere

Verlag Enke, Stuttgart

FELL, B.F., WEEKES, T.E.C. (1975):

Digestion and metabolism in the ruminant

The University of New England Publishing Unit 1975 101-118

FERREIRA, H. G., HARRISON, F. A., KEYNES, R.D. (1964):

Studies with isolated rumen epithelium of the sheep

J. Physiol. 175, 28P-30P

Literaturverzeichnis

FERREIRA, H. G., HARRISON, F. A., KEYNES, R.D. (1966a):

The potential and short - circuit across isolated rumen epithelium of the sheep

J. Physiol. 187, 631-644

FERREIRA, H. G., HARRISON, F. A., KEYNES, R.D., NAUSS, A.H. (1966b):

Observations on the potential across the rumen epithelium of the sheep

J. Physiol. 187, 615-630

FERREIRA, H. G., HARRISON, F. A., KEYNES, R.D., ZURICH, L. (1972):

Ion transport across an isolated preparation of sheep rumen epithelium

J. Physiol. 222, 77-93

FISHER, K.A., BINDER, H.J., HAYSLETT, J.P. (1976):

Potassium secretion by colonic mucosal cells after potassium adaption

Am. J. Physiol. 231 (4), 987-994

FITZ, J.G., TROUILLOT, T.E., SCHARSCHMIDT, B.F. (1989):

Effect of pH on membrane potential and K^+ conductance in cultured rat hepatocytes

Am. J. Physiol. 257, G961-G968

FONTENOT, J. P., MILLER, R. W., WHITEHAIR, C. K., and MACVICAR, R.

(1960):

Effect of high-protein high-potassium ration on the mineral metabolism of lambs

J. Anim. Sci. 19, 127-133

Literaturverzeichnis

FONTENOT, J. R., WISE, M. B., WEBB JR, K. E. (1973):

Interrelationships of potassium, nitrogen and magnesium in ruminants

Fed. Proc. 32, 1925-1928

FOSTER, E.S., HAYSLETT, J.P., BINDER, H.J. (1984):

Mechanism of active potassium absorption and secretion in the rat colon

Am. J. Physiol. 246, G611- G617

FREEL, R.W. (1987):

Dihydroxy bile salt-induced secretion of rubidium ion across the rabbit distal colon

Am. J. Physiol. 252, G554-G561

FRIZZELL, R. A., SCHULTZ, S. G. (1972):

Ionic conductances of extracellular shunt pathway in rabbit ileum. Influence of shunt on transmural sodium transport and electrical potential differences

J. Gen. Physiol. 59, 318-346

FROMM, M., SCHULTZ, S.G. (1981):

Some properties of KCL-filled microelectrodes: Correlation of potassium leakage with tip resistance

J. Membrane Biol. 62, 239-244

GÄBEL, G. (1988):

Natrium- und Chloridtransport im Pansen von Schafen: Mechanismen und ihre Beeinflussung durch intraruminale Fermentationsprodukte

Hannover, Tierärztliche Hochschule, Habil.-Schrift

Literaturverzeichnis

GÄBEL, G., BESTMANN, M., MARTENS, H. (1991):

Influences of diet, short chain fatty acids, lactate and chloride on bicarbonate movement across the reticulo- rumen wall of sheep

J Vet Med A 83, 523

GÄBEL, G., MAREK,M., MARTENS, H. (1993):

Influence of food deprivation on SCFA and electrolyte transport across shery reticulorumen

J. Vet. Med. 40, 339-344

GERMANN, W.J., LOWY, M.E., ERNST, S.A., D.C. DAWSON (1986):

Differentiation of two distinct K conductances in the basolateral membrane of turtle colon

J. Gen. Physiol. 88, 237-251

GRACE, N. D., CAPLE, I. W., CARE, A. D. (1988):

Studies in sheep on the absorption of magnesium from a low molecular weight fraction of the reticulo-rumen contents

Br. J. Nutr. 59, 93-108

GRACE, N. D., McRAE, J. C. (1972):

Influence of feeding regimen and protein supplementation on the site of net absorption of magnesium in sheep

Br. J. Nutr. 27, 51-55

HALM, D.R., DAWSON, D.C. (1983):

Cation activation of the basolateral sodium-potassium pump in turtle colon

J. Gen. Physiol. 82, 315-329

Literaturverzeichnis

HALM, D.R., TROUTMAN HALM, S. (1994):

Aldosterone stimulates K secretion in prior to onset of Na adsorption in guinea pig distal colon

Am. J. Physiol. 266, C552-C558

HARRISON, F. A., HILL, K. J., MANGAN, J. L. (1963):

Absorption and excretion of lithium and magnesium in the sheep

J. Biochem. 89, 99-100

HARRISON, F.A., KEYNES, R.D., NAUSS, A.H. (1964):

The effect of potassium on the potential across the rumen of the sheep

Proc. Physiol. Soc. 18P-20P

HARRISON, F.A. (1971):

Ion transport across rumen and omasum epithelium

Philos. Trans. R. Soc. Lond. B. Biol. Sci. 262, 301

HARRISON, F.A.; KEYNES, R.D; RANKIN, J.C.ZURICH, L. (1975):

The effect of ouabain on ion transport across isolated sheep rumen epithelium.

J. Physiol. 249, 669-677

HARTMANN, H.A., KIRSCH, G.E., DREWE, J.A., TAGLIALATELA, M., JOHO, R.H., BROWN, A.M. (1991):

Exchange of conduction pathways between two related K⁺ channels

Science 251, 942-944

Literaturverzeichnis

HAYSLETT, J.P., MYKETEY, N., BINDER, H.J., ARONSON, P.S. (1980):

Mechanism of increased potassium secretion in potassium loading and sodium deprivation

Am. J. Physiol. 239, F378-F382

HAYSLETT, J.P., HALEVY, J., PACE, P.E., BINDER, H.J. (1982):

Demonstration of net potassium absorption in mammalian colon

Am. J. Physiol. 242, G209-G214

HAYSLETT, J.P., BINDER, H.J. (1982):

Mechanism of potassium adaptation

Am. J. Physiol. 243, F103- F112

HEGINBOTHAM, L., LU, Z., ABRAMSON, T., MACKINNON, R. (1994):

Mutations in the K⁺ channel signature sequence

Biophys. J. 66, 1061-1067

HEMINGWAY, R.G., RITCHIE, N.S., BROWN, N.A., PEART, J.N. (1965):

Effects of grazing management on plasma calcium and magnesium concentrations of ewes
early lactations

J. Agric. Sci. 4, 109-114

HEYDEN, S. (1961):

Observations of the absorption of inorganic ions from the reticulo-rumen of the sheep

Kgl. Lantbrukshögrsk. Annir. 27, 273-285

Literaturverzeichnis

HILLE, B., SCHWARZ, W. (1978):

Potassium channels as a multi-ion single-file pores

J. Gen. Physiol. 72, 409-442

HO, K., NICHOLS, C.G., LEDERER, W.J., LYTTON, J., VASSILEV, P.M.,

KANAZIRSKA, M.V., HERBERT, S.C. (1993):

Cloning and expression of an inwardly rectifying ATP-regulated potassium channel

Nature 362, 31-38

HOFMANN, W. (1992):

Rinderkrankheiten, Band 1

Verlag Eugen Ulmer, Stuttgart

JACKSON, M.J.; NORRIS, S.H. (1985):

Transport of sodium and chloride across rat gastric mucosa in vitro

J. Physiol. 360, 293- 310

KAUFFOLD, P., VOIGT, J., HERRENDÖRFER, G. (1977):

Untersuchungen über den Einfluss von Ernährungsfaktoren auf die Pansenschleimhaut

Arch. Tierern. 27, 201-211

KEMP, A., DEIJS,W.B., HEMKES,O.J., VAN ES, A.J.H. (1961):

Hypomagnesaemia in milking cows: Intake and utilization of magnesium from herbage by lactating cows

J. Agric. Sci. 9, 134-149

Literaturverzeichnis

KEMP, A., GEURINK, J. H. (1978):

Grassland farming and minerals in cattle.

Neth. J. agric. Sci. 26, 161-169

KHORASANI, G.R., ARMSTRONG, D.G. (1990):

Effect of sodium and potassium level on the absorption of magnesium and other macro-minerals in sheep

Livestock Production Science 24, 414

KUNZELMANN, K., PAVENSTÄDT, H., GREGER, R. (1989):

Characterization of potassium channels in respiratory cells II. Inhibitors and regulation

Pflügers Arch. 414, 297-303

LANG, I., MARTENS, H. (1999):

Na transport in sheep rumen is modulated by voltage-dependent cation conductance in apical membrane

Am. J. Physiol. 277, G609-G618

LEONHARD (1990):

In vitro Untersuchungen zum Magnesium- Transport durch das Pansenepithel von Schafen

Dissertation, Berlin, Freie Universität Berlin und Tierärztliche Hochschule Hannover

LEONHARD-MAREK, S., GÄBEL, G., and MARTENS, H. (1998):

Effects of short chain fatty acids and carbon dioxide on magnesium transport across sheep rumen epithelium.

Exp. Physiol. 83, 155-164

Literaturverzeichnis

LEONARD-MAREK,S., MARTENS, H. (1996):

Effects of potassium on magnesium transport across rumen epithelium

Am. J. Physiol. 271, G1034-1038

LEVITAN, I.B. (1999):

Modulation of ion channels by protein phosphorylation. How the brain works

Adv. Second Messenger Phosphoprotein Res. 33, 3-22

LIEBICH, H.-G. (1993):

Funktionelle Histologie

Verlag Schattauer, Stuttgart

LIEBICH, H.-G., DIRKSEN, G., ARBEL, A., DORI, S., MAYER, E. (1987):

Fütterungsabhängige Veränderungen der Pansenschleimhaut von Hochleistungskühen im Zeitraum von Trockenstellung bis acht Wochen post partum

J. Vet. Med. A. 34, 661-672

LOO, D.D.F., KAUNITZ, J.D. (1989):

Ca^{2+} and cAMP activate K^+ -channels in the basolateral membrane of crypt cells isolated from rabbit distal colon

J. Membrane Biol. 110, 19-28

MACKINNON, R., ALDRICH, R.W., LEE, A.W. (1993):

Functional stoichiometry of Shaker potassium channel inactivation

Science 262, 757-759

Literaturverzeichnis

MARTENS, H., RAYSSINGUIR, Y. (1980):

Magnesium metabolism and hypomagnesaemia

in: **Y. RUCKEBUSCH & P. THIVEND** (Eds.): Digestive physiology and metabolism in ruminants.

MTP Press Ltd., Lancaster, U.K., 447-466

MARTENS, H., BLUME, I. (1986):

Effect of intraruminal sodium and potassium concentrations and of the transmural potential difference on magnesium absorption from the temporarily isolated rumen of sheep

Quart. J. Exp. Physiol. 71, 409-415

MARTENS, H., GÄBEL, G., STROZYK, H. (1987):

The effect of potassium and the transmural potential difference on magnesium transport across an isolated preparation of sheep rumen epithelium

Quart. J. Exp. Physiol. 72, 181-188

MARTENS, H., HEGGEMANN, G., REGIER, K. (1988):

Studies on the effect of K, Na, NH₄⁺, VFA and CO₂ on the net absorption of magnesium from the temporarily isolated rumen of heifers

J. Vet. Med. A 35, 73-80

MARTENS, H., RÜBBELKE, M., GÄBEL, G. (1990):

Evidence for a divalent cation sensitive short circuit current across the isolated rumen of sheep

Pfügers Arch. 415: R4

Literaturverzeichnis

MARTENS, H., GÄBEL, G., STROZYK, B. (1991):

Mechanism of electrically silent Na^+ and Cl^- transport across the rumen epithelium of sheep

Pflügers Arch. 415, Suppl. Nr. 1, R28

MARTENS, H., SCHWEIGEL, M. (2000a):

Grass tetany and other hypomagnesaemias.

Vet. Clin. N. Am.-Food A. 16, 339-368

MARTENS, H., SCHWEIGEL, M. (2000b):

Hypomagnesämien und Tetanie bei Wiederkäuern als Folge der Interaktion und des Antagonismus zwischen Kalium, Natrium und Magnesium

Jahrbuch 2000 der Deutschen Akademie der Naturforscher Leopoldina (Halle/Saale)

Leopoldina (R.3) 46, (2001) I-XX

McCABE, R., COOKE, H.J., SULLIVAN, L.P. (1982):

Potassium transport by rabbit descending colon

Cell Physiol. 11, C81-C86

McCABE, R., SMITH, P.L., SULLIVAN, L.P. (1984):

Ion transport by rabbit descending colon: mechanismus of transepithelial potassium transport

Am. J. Physiol. 246, G594-602

MILLER, C. (2000a):

An overview of the potassium channel family

Gen. Biol. 2000 1(4), 4.1-4.5

Literaturverzeichnis

MILLER, C. (2000b):

Ion channels: doing hard chemistry with hard ions

Curr. Opin. Chem. Biol. 4, 148-151

MUSCH, M.W., ORELLANA, S.A., KIMBERG, L.S., FIELD, M., HALM, D.R.,

KRASNY, E.J., FRIZZEL, R.A. (1982):

$\text{Na}^+ \text{-K}^+ \text{-Cl}^-$ co-transport in the intestine of a marine teleost

Nature 300, 351-353

NEWTON, G.L., FONTENOT, J.P., TUCKER, R.E., POLAN, G.E. (1972):

Effects of high dietary potassium intake on the metabolism of magnesium by sheep

J. Anim. Sci. 35, 440-445

NEYTON, J., MILLER, C. (1988):

Discrete Ba^{2+} block as a probe of ion occupancy and pore structure in the high-conductance Ca^{2+} -activated K^+ -channel

J. Gen. Physiol. 92, 569-586

OWEN, J.M., LEACH, R., QUINN, C., FINDLAY, J.B.C., BOYETT, M.R. (1995):

Block of the inward rectifier K^+ -channel, IRK1, expressed in *Xenopus* oocytes by extracellular divalent cations

J. Physiol. 489, 51P

PAPAZIAN, D.M., SCHWARZ, D.L., TEMPEL, B.L., JAN, Y.N., JAN, L.Y. (1987):

Cloning of genomic and complementary DNA from Shaker, a putative potassium channel gene from *Drosophila*

Science 237, 749-753

Literaturverzeichnis

PARTHASARATHY, D., PHILLIPSON, A.T. (1953):

The movement of potassium, sodium, chloride and water across the rumen epithelium of sheep

J. Physiol. 121, 452-469

PFEFFER, E., BERTZBACH, J., LENKEIT, W. (1966):

Untersuchungen über das Verhalten der mineralischen Mengenelemente im Verdauungskanal von Schafen bei Zufütterung von NaCl oder KCl

Z. Tierphysiol. Tierernähr. Futtermittelkd. 22, 114-124

PFEFFER, E., THOMPSON, A., ARMSTRONG, D. G. (1970):

Studies on intestinal digestion in the sheep. 3. Net movement of certain inorganic elements in the digestive tract on rations containing different proportions of hay and rolled barley

Br. J. Nutr. 24, 197-204

PFEFFER, E., RAHMAN, K.A. (1974):

Untersuchungen zur Lokalisierung der Magnesium- Absorption beim Wiederkäuer

Z. Tierphysiol. Tierernähr. Futtermittelkd. 33, 209-213

PONGS, O., KECSKEMETHY, N., MÜLLER, R., KRAH-JENTGENS, I.,

BAUMANN, A., KILTZ, H.H., CANAL, I., LLAMAZARES, S., FERRUS, A. (1988):

Shaker encodes a family of putative potassium channel proteins in the nervous system of Drosophila

EMBO J. 7, 1087- 1096

Literaturverzeichnis

QUALE, J.M., STANDEN N.B., STANFIELD, P.R. (1988):

The voltage-dependent block of ATP-sensitive potassium channels of frog skeletal muscle by caesium und barium ions

J. Physiol. 405, 677-697

RABINOWITZ, L., SARASON, R.L., TANASOVICH, C. (1984):

Effects of glucagon, insulin, propionate, acetate and HCO_3^- on K excretion in sheep

Am J Physiol 246, R197

RAHNEMA, S. H., FONTENOT, J. P. (1986):

Effects of potassium on association of minerals with various fractions of digesta and feces of sheep fed hay

J. Anim. Sci. 63, 1491-1501

RAM, L., SCHONEVILLE, J.T., MARTENS, H., VANT KLOOSTER, A.T., BEYNEN, A.C. (1998):

Magnesium absorption by wethers fed potassium bicarbonate in combination with different dietary magnesium concentrations

J. Dairy Sci. 81, 2485-2492

REFFETT, J.K., BOLING, J.A. (1985):

Nutrient utilization in lambs fed diets high in sodium or potassium

J. Anim. Sci. 61, 1004-1009

REUSS, L., CHEUNG, L.Y., GRADY, T.P. (1981):

Mechanisms of cation permeation across apical cell membrane of *Necturus* gallbladder: effects of luminal pH and divalent cations on K^+ and Na^+ permeability

J. Membr. Biol. 59, 211-224

Literaturverzeichnis

ROGERS, P. A. M., VAN'T KLOOSTER, A.T. (1969):

The fate of Na, K, Ca, Mg and P in the digesta.

Meded. LandbHogesch. Wageningen 69 (11), 26-39

ROOK, J.A.F., BALCH, C.C. (1958):

Magnesium metabolism in the dairy cow 2. Metabolism during the spring grazing season

J. Agric. Sci. 51, 199-207

RÜBBELKE, M. K. (1998):

In vitro Untersuchungen des Pansenepithels von Schafen zur Charakterisierung eines elektrogenen, calcium-sensitiven Na-Transport

Dissertation, Berlin, Freie Universität Berlin

SANDLE, G.I., McGLONE, F. (1987):

Segmental variability of membrane conductances in rat and human colonic epithelia

Pflügers Arch. 410, 173-180

SCHMIDT, R:F., THEWS,G. (1995):

Physiologie des Menschen

Verlag Springer, Berlin

SCHULTHEISS, G. (1995):

Calcium- sensitiver, elektrogener Na-Transport des Psalterepithels von Schafen

Dissertation, Berlin, Freie Universität Berlin

Literaturverzeichnis

SCHULTZ, S.G. (1981):

Homocellular regulatory mechanismus in sodium-transporting epithelia: avoidance of extinction by "flush-through"

Am. J. Physiol. 241, F579-90

SCHWEIGEL, M., LANG, I., MARTENS, H. (1999):

Mg²⁺-transport in sheep rumen epithelium: evidence for an electrodifusive uptake mechanism

Am. J. Physiol. 277, G976-G982

SCHWEIGEL, M.; MARTENS, H. (2000):

Elektrophysiologische Veränderung des Pansenepithels und deren Auswirkungen auf den Magnesium-Transport - eine Übersicht

Berl. Münch. Tierärztl. Wschr., 113, 97-102

SCHWEIGEL, M., VORMANN, J., MARTENS, H. (2000):

Mechanism of Mg²⁺-transport in cultured ruminal epithelial cells

Am. J. Physiol. 278, G400-G408

SCOTT, D. (1966):

The effect of potassium supplements upon the absorption of potassium and sodium from the sheep rumen

Quart. J. exp. Physiol. 52, 382-391

SCOTT, D. (1967):

The effects of sodium depletion and potassium supplements upon electric potentials in the rumen of sheep

Quart. J. Exp. Physiol. 51, 60-69

Literaturverzeichnis

SELLERS, A.F., DOBSON, A. (1960):

Studies on reticulo-rumen sodium and potassium concentration and electrical potentials in sheep

Res. Vet. Sci. 1, 95-102

SJOLLEMA, B., SEEKLES, L. (1929):

Over de stornissen der minerale stofwiseling bij kalf - en kopziekte

Tijdschr. Diergeneesk. 56, 979-989

SMITH, P.L., McCABE, R.D. (1984):

Mechanism and regulation of transcellular potassium transport by the colon

Am. J. Physiol. 247, G445-G456

SMITH, G.S., CORNFORTH, I.S., and HENDERSON, H.V. (1985) :

Critical leaf concentrations for deficiencies of nitrogen, potassium, phosphorus, sulphur and magnesium in perennial ryegrass.

New Phytol. 101, 393-409

SPERBER, J., HEYDEN, S. (1952):

Transport of Chloride through the ruminal mucosa

Nature (Lond.), 169, 587

STACY, B.D., WARNER, A.C.I. (1966):

Balances of water and sodium in the rumen during feeding, osmotic stimulation of sodium absorption in the sheep

Quart. J. Physiol. 51, 79-93

Literaturverzeichnis

STROZYK, B.-M. (1987):

Untersuchungen über den Transport von Natrium durch das isolierte Pansenepithel von Schafen: Hinweise auf einen Na^+/H^+ -Austausch in der luminalen Membran

Hannover, Tierärztliche Hochschule, Dissertation

SUTTON, J.D., MCGILLIARD, A.D., JACOBSON, N.C. (1963):

J Dairy Sci. 48, 426

SUZUKI, Y., KANEKO, K. (1989):

Ouabain-sensitive H^+/K^+ -exchange mechanism in the apical membrane of guinea pig colon

Am. J. Physiol. 256, G979-G988

TOHA, M., BOLING, J. A., BUNTING, L. D., DAWSON, K. A. (1987):

Effect of water restriction and dietary potassium on nutrient metabolism in sheep

J. Anim. Sci. 65, 1336-1341

TOMAS, F. M., POTTER, B. J. (1976):

The effect and site of action of potassium upon magnesium absorption in sheep

Austr. J. Agric. 27, 873-880

VAN DRIESEN, W., DE WOLF, I. (1991):

Microelectrode studies of voltage-dependent Ba^{2+} - and Cs^+ -block of apical K^+ -channels in the skin of *Rana temporaria*

Pflügers Arch. 418, 400-407

Literaturverzeichnis

WATANBE, T., SUZUKI, T., SUZUKI, Y. (1990):

Ouabain-sensitive K⁺-ATPase in epithelial cells from guinea pig distal colon

Am. J. Physiol. 258, G506-G511

WILLS, N.K. (1985):

Apical membrane potassium and chloride permeabilities in surface cells of rabbit descending colon epithelium

J. Physiol. 358, 433-445

WILLS, N. K., EATON, D.C., LEWIS, S.A., IFSHIN, M. (1979a):

Current-voltage relationship of the basolateral membrane of a tight epithelium

Biochim. Biophys. Acta 555, 519-523

WILLS, N. K., EATON, D.C., LEWIS, S.A (1979b):

Active and passive properties of the rabbit descending colon: a microelectrode and nystatin study

J. Membr. Biol. 69, 187-197

WILLS, N. K., BIAGI, B. (1980):

Evidence for active K⁺ transport across rabbit descending colon

J. Gen. Physiol. 76 A12-13

WILLS, N. K., BIAGI, B. (1982):

Active potassium transport by rabbit descending colon

J. Membr. Biol. 64 195-203

Literaturverzeichnis

WOLFFRAM, S., FRISCHKNECHT, R. SCHARRER, E. (1989)

Influence of theophyllin on the electrical potential difference and ion transportrates (Na, Cl, K) across the isolated rumen epithelium of sheep

J. Vet. Med. A36, 755-762

YELEN, G., JURMANN, M.E., ABRAMSON, T., MACKINNON, R. (1991):

Mutations affecting internal TEA blockade identify the probable pore-forming region of a K⁺-channel

Science 251, 939-942

ZANMING SHEN, H.-M., SEIFERT, B., LÖHRKE, B., SCHNEIDER,F., ZITNAN,R., CHUNDY,A., KUHLA, S., HAMMON, H., BLUM, J.W., MARTENS, H., HAGEMEISTER, H., VOIGT, J. (2002):

Effects of diet on rumen papillae development is mediated by IGF-1

Proc. Soc. Nutr. Physiol. 11, 29

ZOU, H., TATE, S.S., PALMER, L.G. (1994):

Primary structure and functional properties of an epithelial K⁺-channel

Am. J. Physiol. 266, C809-824