

6 Literaturverzeichnis

- Adams, D.J., Barakeh, J., Laskey, R., Van Breemen, C. (1989): Ion channels and regulation of intracellular calcium in vascular endothelial cells. FASEB J. 3: 2389-2400
- Alhenc-Gelas, F., Tsai, S.J., Callahan, K.S., Campbell, W.B., Johnson, A.R. (1982): Stimulation of prostaglandin formation by vasoactive mediators in cultured human endothelial cells. Prostaglandins 24: 723-742
- Barbee, K.A., Davies, P.F., Lal, R. (1994): Shear stress-induced reorganization of the surface topography of living endothelial cells imaged by atomic force microscopy. Circ. Res. 71: 163-71
- Baron, A., Frieden, M., Chabaud, F., Beny, J-L. (1996): Ca^{2+} -dependent nonselective cation and potassium channels activated by bradykinin in pig coronary endothelial cell. J. Physiol. 49: 699-706
- Barrett, J.N., Magelby, K.L., Pallotta, B.S. (1982): Properties of single calcium-activated potassium channels in cultured rat muscle. J. Physiol. 331: 221-230
- Blatz, A.L., Magelby, K.L. (1986): Single apamin-blocked Ca^{2+} -activated K^+ channels of small conductance in cultured rat skeletal muscle. Nature 323: 718-720
- Blatz, A.L., Magelby, K.L. (1987): Calcium-activated potassium channels. TINS 11: 463-467
- Boilotina, V.M., Najibi, S., Palacino, J.J., Pagano, P.J., Cohen, R.A. (1994): Nitric oxide directly activates calcium-dependent potassium channels in vascular smooth muscle. Nature 368: 850-853
- Brailioiu, C., Beschea-Chiriac, C., Chiriac, M. (1998): Endothelium-derived hyperpolarizing factor. Rev. Med. Chir. Soc. Med. Nat. Iasi 102: 49-55
- Buckley, B.J., Mirza, Z., Whorton, A.R. (1995): Regulation of Ca^{2+} -dependent nitric oxide synthase in bovine aortic endothelial cells. Am. J. Physiol. 269: C757-65
- Busse, R., Tragisch, G., Bassenge, E. (1985): The role of endothelium in the control of vascular tone. Basic Res. Cardiol. 80: 475-490

- Busse, R., Fleming, I. (1993): The endothelial organ. *Cardiology* 8: 719-727
- Busse, R., Fleming, I. (1995): Regulation and functional consequences of endothelial nitric oxide formation. *Ann. Med.* 27: 331-340
- Colden-Stanfield, M., Schilling, W.P., Ritchie, A.K., Eskin, S.G., Navarro, L.T., Kunze, D.L. (1987): Bradykinin-induced increases in cytosolic calcium and ionic currents in cultured bovine aortic endothelial cells. *Circ. Res.* 61: 632-640
- Colden-Stanfield, M., Schilling, W.P., Possani, L.D., Kunze, D.L. (1990): Bradykinin-induced potassium current in cultured bovine aortic endothelial cells. *J. Membr. Biol.* 116: 227-38
- Cole, K., Kohn, E. (1994): Calcium-mediated signal transduction: Biology, Biochemistry and Therapy. *Cancer Metastasis Rev.* 13: 31-44
- Cooke, J.P., Rossitch, E., Andon, N.A., Loscalzo, J., Dzau, V.J. (1991): Flow activates an endothelial potassium channel to release an endogenous nitrovasodilator. *J. Clin. Invest.* 88: 1663-1671
- Daut, J., Standen, N.B., Nelson, M.T. (1994): The role of the membrane potential of endothelial and smooth muscle cells in the regulation of coronary blood flow. *J. Cardiovasc. Electrophysiol.* 5: 154-181
- Davies, P.F. (1995): Flow-mediated endothelial mechanotransduction. *Physiol. Rev.* 75: 519-560
- Dirix, L.Y., Vermeulen, P.B., Hubens, G., Benoy, I., Martin, M., De Pooter, C., Van Oosterom, A.T. (1996): Serum basic fibroblast growth factor and vascular endothelial growth factor and tumor growth kinetics in advanced colorectal cancer. *Ann. Oncol.* 7: 843-8
- Edwards, G., Feletou, M., Gardener, M.J., Thollon, C., Vanhoutte, P.M., Weston, A.H. (1999): Role of gap junctions in the responses to EDHF in rat and guinea-pig small arteries. *Br. J. Pharmacol.* 128: 1788-94
- Falcone, J.C., Kuo, L., Meininger, G.A. (1993): Endothelial cell calcium increases during flow-induced dilation in isolated arterioles. *Am. J. Physiol.* 264: H653-H659
- Feletou, M., Vanhoutte, P.M. (1996): Endothelium-derived hyperpolarizing factor. *Clin. Exp. Pharmacol. Physiol.* 23: 1082-90

- Fichtner, H., Fröbe, U., Kohlhardt, M. (1987): Single nonselective cation channels and Ca^{2+} -activated K^+ -channels in aortic endothelial cells. *J. Membrane Biol.* 98: 125-153
- Folkman, J. (1996): Tumor angiogenesis and tissue factor. *Nat Med.* 2:167-168
- Folkman, J. (2000): Incipient angiogenesis. *J. Natl. Cancer Inst.* 92: 94-5
- Folkman, J. (2001): Can mosaic tumor vessels facilitate molecular diagnosis of cancer? *Proc. Natl. Acad. Sci. USA* 98: 398-400
- Frangos, J.A., Esklin, S.G., McIntire, L.V., Ives, C.L. (1985): Flow effects on prostacyclin production by cultured human endothelial cell. *Science* 227: 1477-1479
- Fraser, S.P., Grimes, J.A., Djamgoz, M.B. (2000): Effects of voltage-gated ion channel modulators on rat prostatic cell proliferation: comparison of strongly and weakly metastatic cell lines. *Prostate* 44: 61-76
- Furchtgott, R.F., Zawadzki, J.V. (1980): The obligatory role of endothelial cells in the relaxation of arterial smooth muscle by acetylcholine. *Nature* 288: 373-376
- Furchtgott, R.F., Vanhoute, P.M. (1989): Endothelium-derived relaxing and contracting factors. *FASEB J.* 3: 2007-2018
- Garcia, M.L., Galvez, A., Garcia-Calvo, M., King, V.F., Vasquez, J., Kaczorowski, G.J. (1991): Use of toxins to study potassium channels. *J. Bioenerg. Biomembr.* 23: 615-46
- Garcia-Cardena, G., Folkman, J. (1998): Is there a role for nitric oxide in tumor angiogenesis? *J. Natl. Cancer Inst.* 90: 587-96
- Gorfien, S., Spector, A., DeLuca, D., Weiss, S. (1993): Growth and physiological functions of vascular endothelial cells in a new serum-free medium (SFM). *Exp. Cell Res.* 206: 291-301
- Griendling, K.K., Alexander, R.W. (1996): Endothelial control of the cardiovascular system: recent advances. *FASEB J.* 10: 283-292
- Groschner, K., Graier, W.F., Kukovetz, W.R. (1992): Activation of a small-conductance Ca^{2+} -dependent K^+ channel contributes to bradykinin-induced stimulation of nitric oxide synthesis in pig aortic endothelial cells. *Biochem. Biophys. Acta* 1137: 162-70

- Grunnet, M., Jensen, B.S., Olesen, S.P., Klaerke, D.A. (2001): Apamin interacts with all subtypes of cloned small-conductance Ca^{2+} -activated K^+ channels. *Pflügers Arch.* 441: 544-50
- Hamill, O.P., Marty, A., Neher, E., Sakman, B., Sigworth, F.J. (1981): Improved patch-clamp techniques for high resolution current recording from cells and cell-free membrane patches. *Pflügers Arch.* 391: 85-100
- Hardy, P., Abran, D., Xin, H., Lahaie, I., Peri, K.G., Asselin, P., Varma, D.R., Chemtob, S. (1998): A major role for prostacyclin in nitric oxide-induced ocular vasorelaxation in the piglet. *Circ. Res.* 83: 721-729
- Harteneck, C., Plant, T.D., Schultz, G. (2000): From worm to man: three subfamilies of TRP channels. *Trends Neurosci.* 23: 159-66
- Hassid, A. (1986): Atriopeptin II decreases cytosolic free Ca^{2+} in cultured vascular smooth muscle cells. *Am. J. Physiol.* 251: C681-C686
- Hecker, M., Mülsch, A., Bassenge, E., Förstermann, U., Busse, R. (1994): Subcellular localization and characterization of nitric oxide synthase(s) in endothelial cells: physiological implications. *Biochem. J.* 299: 247-252
- Henne, J., Pottering, S., Jeserich, G. (2000): Voltage-gated potassium channels in retinal ganglion cells of trout: a combined biophysical, pharmacological and single-cell RT-PCR approach. *J. Neurosci Res* 62: 629-37
- Hille, B. (1984): Ionic channels in excitable membranes. Sinauer Ass. Inc. (ed.), Sunderland, Massachusetts. S.1-19
- Himmel, H.M. Whorton, A.R., Strauss, H.C. (1993): Intracellular calcium, currents and stimulus-response coupling in endothelial cells. *Hypertension* 21: 112-127
- Hong, S.L., Deykin, D. (1982): Activation of Phospholipases A₂ and C in pig aortic endothelial cells synthesizing Prostacyclin. *J. Biol. Chem.* 257: 7151-7154
- Hoyer, J., Popp, R., Haase, W., Distler, A. (1991): Angiotensin II, Vasopressin and GTP γ S inhibit inward rectifying K^+ current in endothelial cells of pig brain blood capillaries. *J. Membrane Biol.* 123: 55-62
- Hoyer, J., Distler, A., Haase, W., Gögelein, H. (1994): Ca^{2+} influx through stretch-activated cation channels activates maxi K^+ channels in porcine endocardial endothelium. *Proc. Natl. Acad. Sci. (USA)* 91: 2367-2371

- Hoyer, J., Köhler, R., Haase, W., Distler, A. (1996): Up-regulation of pressure-activated Ca^{2+} -permeable cation channel in intact vascular endothelium of hypertensive rats. Proc. Natl. Acad. Sci. (USA) 93: 11253-11258
- Hoyer, J. (1997): Endothelial vasoregulation and mechanosensitive ion channels in hypertension. Nephrol. Dial. Transplant. 12: 6-8
- Hoyer, J., Köhler, R., Distler, A. (1998): Mechanosensitive Ca^{2+} oscillations and STOC activation in endothelial cells. FASEB J. 12: 359-366
- Hsieh, H.-J., Li, N.-Q., Frangos, J.A. (1991): Shear stress induces endothelial platelet-derived growth factor mRNA levels. Am.J. Physiol. 260: H642-H646
- Ikeuchi, Y., Nishizaki, T. (1995): ATP activates the potassium channel and enhances cytosolic Ca^{2+} release via P_{2y} purinoreceptor linked to pertussis toxin-insensitiv G-protein in brain artery endothelial cells. Biochem. Biophys. Res. Commun. 215: 1022-1028
- Ishii, T.M., Silvia, C., Hirschberg, B., Bond, C.T., Adelman, J.P., Maylie, J. (1997): A human intermediate conductance calcium-activated potassium channel. Proc. Natl. Acad. Sci. USA 94: 11651-11656
- Jacob, R. (1990): Agonist-stimulated divalent cation entry into single cultured human umbilical vein endothelial cells. J. Physiol. (Lond.) 421
- Jacob, R. (1991): Calcium oscillations in endothelial cells. Cell Calcium 12: 127-34
- Jacobs, E.R., Cheliakine, C., Gebremedkin, D., Birks, E.K., Davies, P.F., Harder, D.R. (1995): Shear activated channels in cell-attached patches of cultured bovine aortic endothelial cells. Pflügers Arch. 431: 129-131
- Jacobsen, J., Rasmussen, T., Grankvist, K., Ljungberg, B. (2000): Vascular endothelial growth factor as prognostic factor in renal cell carcinoma. J. Urol. 163: 343-7
- Jensen, B.S., Odum, N., Jorgensen, N.K., Christophersen, P., Olesen, S.P. (1999): Inhibition of T cell proliferation by selective block of Ca^{2+} -activated K^+ channels. Proc. Natl. Acad. Sci. USA 96: 10917-21
- Johns, A., Lategan, T.W., Lodge, N.J., Ryan, U.S., van Breemen, C., Adams, D.J. (1987): Calcium entry through receptor-operated channels in bovine pulmonary artery endothelial cells. Tissue Cell 19: 733-745

- Kamouchi, M., Trouet, D., De Greef, C., Droogmans, G., Eggermont, J., Nilius, B. (1997): Functional effects of expression of hSlo Ca^{2+} activated K^+ channels in cultured macrovascular endothelial cells. 22: 497-506
- Köhler, R., Schönfelder, G., Hopp, H., Distler, A., Hoyer, J. (1998): Stretch-activated cation channel in human umbilical vein endothelium in normal pregnancy and in preeclampsia. *J. of Hypertension* 16: 1149-1156
- Köhler, R., Distler, A., Hoyer, J. (1999): Increased mechanosensitive currents in aortic endothelial cells from genetically hypertensive rats. *J. of Hypertension* 17: 365-371
- Köhler, R., Brakemeier, S., Kuhn, M., Degenhardt, C., Buhr, H., Pries, A., Hoyer, J. (2001): Expression of ryanodine receptor type 3 and TRP channels in endothelial cells: comparison of *in situ* and cultured human endothelial cells. *Cardiovasc. Res.* 51: 160-8
- Koh, S.D., Campbell, J.D., Carl, A., Sanders, K.M. (1995): Nitric oxide activate multiple potassium channels in canine colonic smooth muscle. *Nature* 368: 850-853
- Kohn, E.C., Alessandro, R., Spoonster, J., Wersto, R.P., Liotta, L.A. (1995): Angiogenesis: Role of calcium-mediated signal transduction. *Proc. Natl. Acad. Sci. USA* 92: 1307-11
- Kuo, L., Davis, M.J., Chilian, W.H. (1990): Endothelium-dependent, flow-induced nitric oxide production in endothelial cells. *Am. J. Physiol.* 259: H1063-1070
- Lambolez, B., Audinat, E., Bochet, P., Crepel, F., Rossier, J. (1992): Alpha receptor subunit expression by single Purkinje cells. *Neuron* 9: 247-58
- Lansman, J.B., Hallam, T.J., Rink, T.J. (1987): Single stretch-activated ion channels in vascular endothelial cells as mechanotransducers. *Nature* 325: 811-813
- Latorre, R., Oberhauser, A., Labarca, P., Alvarez, O. (1989): Varieties of calcium-activated potassium channels. *Annu. Rev. Physiol.* 51: 385-399
- Levesque, M.J., Nerem, R.M. (1989): The study of rheological effects on vascular endothelial cells in culture. *Biorheology* 26: 345-57
- Ling, B.N., O'Neill, W.C. (1992): Ca^{2+} -dependent and Ca^{2+} -permeable ion channels in aortic endothelial cells. *Am. J. Physiol.* 263: H1827-38

- Logsdon, N.J., Kang, J., Togo, J.A., Christian, E.P., Aiyar, J. (1997): A novel gene, hKCa4, encodes the calcium-activated potassium channel in human T lymphocytes. *J.Biol.Chem.* 272: 32723-32726
- Lückhoff, A., Busse, R. (1990): Calcium influx into endothelial cells and formation of endothelium-derived relaxing factor is controlled by the membrane potential. *Pflügers Arch.* 416: 305-311
- Lückhoff, A., Clapham, D.E. (1992): Inositol 1.3.4.5.-tetrakiphosphate activates an endothelial Ca^{2+} -permeable channel. *Nature* 355: 356-358
- Lüscher, T.F. (1990): Imbalance of endothelium-derived relaxing and contracting factors. A new concept in hypertension. *Am. J. Hypertension* 3: 317-330
- Mackie, K., Lai, Y., Nairn, A.C., Grenngard, P., Pitt, B.R., Lazo, J.S. (1986): Protein phosphorylation in cultured endothelial cells. *J. Cell Physiol.* 128: 367-374
- MacMillan-Crow, L.A., Murphy-Ullrich, J.E., Lincoln, T.M. (1994): Identification and possible location of cGMP-dependent protein kinase in bovine aortic endothelial cells. *Biochem. Biophys. Res. Commun.* 201: 531-537
- Manabe, K., Ito, H., Matsuda, H., Noma, A. (1995): Hyperpolarization induced by vasoactive substances in intact guinea-pig endocardial endothelial cells. *J. Physiol.* 484: 25-40
- Marchenko, S.M., Sage, S.O. (1996): Calcium-activated potassium channels in the endothelium of intact rat aorta. *J. of Physiology* 492.1: 53-60
- Marchenko, S.M., Sage, S.O. (2000): Hyperosmotic but not hyposmotic stress evokes a rise in cytosolic Ca^{2+} concentration in endothelium of intact rat aorta. *Exp. Physiol.* 85: 151-7
- Martina, M., Schultz, J.H., Ehmke, H., Monyer, H., Jonas, P. (1998): Functional and molecular differences between voltage-gated K^+ channels of fast-spiking interneurons and pyramidal neurons of rat hippocampus. *J.Neurosci.* 18: 8111-25
- Mehrke, G., Daut, J. (1990): The electrical response of cultured guinea-pig coronary endothelial cells to endothelium-dependent vasodilators. *J. Physiol. (Lond.)* 430: 251-272
- Melkummyants, A.M., Balashov, S.A., Khayutin, V.M. (1995): Control of arterial lumen by shear stress on endothelium. *NIPS* 10: 204-210

- Mermelstein, P. G., Song, W.-J., Tkatch, T., Yan, Z., Surmeier, D. J. (1998): Inwardly Rectifying Potassium (IRK) currents are correlated with IRK subunit expression in rat nucleus accumbens medium spiny neurons. *J. Neuroscience* 18: 6650-6661
- Miller, C., Moczydlowski, E., Latorre, R., Phillips, M. (1985): Charybdotoxin, a protein inhibitor of single Ca^{2+} -activated K^+ channels from mammalian skeletal muscle. *Nature* 313: 316-318
- Miura, H., Guterman, D.D. (1998): Human coronary arteriolar dilation to arachnidonic acid depends on cytochrom P-450 monooxygenase and Ca^{2+} -activated K^+ channels. *Circ. Res.* 83(5): 501-7
- Mombouli, J.V., Vanhoute, P.M. (1999): Endothelial dysfunction: from physiology to therapy. *J. Mol. Cell Cardiol.* 31: 61-74
- Moncada, S., Gryglewski, R., Bunting, S., Vane, J.R. (1976): An enzyme isolated from arteries transform prostaglandin endoperoxides to an unstable substance that inhibits platelet aggregation. *Nature* 263: 663-665
- Moncada, S., Palmer, R.M.J., Higgs, E.A. (1991): Nitric oxide: physiology, pathophysiology and pharmacology. *Pharmacol Rev.* 43: 109-134
- Moore, T.M., Brough, G.H., Babal., P., Kelly, J.J., Li, M., Stevens, T. (1998): Store-operated calcium entry promotes shape change in pulmonary endothelial cells expressing Trp1. *Am. J. Physiol.* 275: L574-82
- Nabel, E.G., Selwyn, A.P., Ganz, P. (1990): Large coronary arteries in humans are responsive to changing blood flow: an endothelium-dependent mechanism that fails in patients with atherosclerosis. *J. Am. Coll. Cardiol.* 16: 349-356
- Nakache, M., Gaub, H.E. (1988): Hydrodynamic hyperpolarization of endothelial cells. *Proc. Acad. Sci. USA* 85: 1841-1843
- Namba, T., Ishii, T.M., Ikeda, M., Hisano, T., Itoh, T., Hirota, K., Adelman, J.P., Fukuda, K. (2000): Inhibition of the human intermediate conductance Ca^{2+} -activated K^+ channel, hIK1, by volatile anesthetics. *Eur. J. Pharmacol.* 395: 95-101
- Naruse, K., Sokabe, M. (1993): Involvement of stretch-activated ion channel in Ca^{2+} mobilization to mechanical stretch in endothelial cells. *Am. J. Physiol.* 264: C1037-C1044

- Nathan, C. (1993): Nitric oxide as a secretory product of mammalian cells. FASEB J. 6: 3051-3064
- Neher, E., Sakman, B. (1976): Single-channel currents recorded from membrane of denervated frog muscle fibres. Nature 260: 799-802
- Neher, E. (1992): Controls of calcium influx. Nature 355: 298-299
- Nelson, M.T., Quayle, J.M. (1995): Physiological roles and properties of potassium channels in arterial smooth muscle. Am. J. Physiol. 268: C799-C822
- Newby, A.C., Henderson, A.H. (1990): Stimulus-secretion coupling in vascular endothelial cells. Annu. Rev. Physiol. 52: 661-674
- Neylon, C.B., Lang, R.J., Fu, Y., Bobik, A., Reinhart, P.H. (1999): Molecular cloning and characterization of the intermediate-conductance Ca^{2+} -activated K^+ channel in vascular smooth muscle: relationship between $\text{K}(\text{Ca})$ channel diversity and smooth muscle cell function. Circ. Res. 85: e33-43
- Nilius, B., Riemann, D. (1990): Ion channels in human endothelial cells. Gen. Physiol. Biophys. 9: 89-112
- Nilius, B. (1991): Regulation of transmembrane calcium fluxes in endothelium. News Physiol. Sci. 6: 110-114
- Nilius, B., Droogmans, G., Gericke, M., Schwarz, G. (1993): Nonselective ion pathways in human endothelial cells. EXS 66: 269-280
- Nilius, B., Viana, F., Droogmans, G. (1997): Ion channels in vascular endothelium. Annu Rev. Physiol. 59: 145-170
- Nilius B. (1998): Signaltransduction in vascular endothelium: the role of intracellular calcium and ion channels. Verh K Acad Geneeskhd Belg 60: 215-50
- Nilius, B., Droogmans, G. (2001): Ion channels and their functional role in vascular endothelium. Physiol. Rev. 81: 1415-59
- Olesen, S., Davies, P.F., Clapham, D.E. (1988): Muscarinic-activated K^+ current in bovine aortic endothelial cells. Circ. Res. 62: 1059-1064
- Palmer, R.M.J., Ferrige, A.G., Moncada, S. (1987): Nitric oxide release accounts for the biological activity of endothelium-derived relaxing factor. Nature 327: 524-526
- Palmer, R.M.J., Ashton, D.S., Moncada, S. (1988): Vascular endothelial cells synthesize nitric oxide from L-arginine. Nature 333: 664-666

- Papassotiriou, J., Kohler, R., Prenen, J., Krause, H., Akbar, M., Eggermont, J., Paul., M., Distler, A., Nilius, B., Hoyer, J. (2000): Endothelial K⁺ channel lacks the Ca²⁺ sensitivity-regulating beta subunit. *FASEB J.* 14(7): 885-94
- Pavenstädt, H., Lindemann, S., Lindemann, V., Späth, M., Kunzelmann, K., Greger, R. (1991): Potassium conductance of smooth muscle cells from rabbit aorta in primary culture. *Pflügers Arch.* 419: 57-68
- Pena, T.L., Rane, S.G. (1999): The fibroblast intermediate conductance K_{Ca} channel, FIK, as a prototype for the cell growth regulatory function of the IK channel family. *J. Membr. Biol.* 172: 249-57
- Pena, T.L., Chen, S.H., Konieczny, S.F., Rane, S.G. (2000): Ras/MEK/ERK Up-regulation of the fibroblast KCa channel FIK is a common mechanism for the fibroblast growth factor and transforming growth factor-beta suppression of myogenesis. *J. Biol. Chem.* 275: 13677-82
- Pohl, U., Holtz, J., Busse, R., Bassenge, E. (1986): Critical role of endothelium in the vasodilatator response to increased flow in vivo. *Hypertension* 8: 37-44
- Pollock, J.S., Förstermann, U., Mitchell, J.A. (1991): Purification and characterization of particulate endothelium-derived relaxing factor synthase from cultured and native bovine aortic endothelial cells. *Proc. Natl. Acad. Sci. (USA)* 88: 10480-10484
- Popp, R., Hoyer, J., Meyer, J., Galla, H.-J., Gögelein, H. (1992): Stretch-activated channel in pig brain blood capillaries. *J. Physiol. (Lond.)* 454: 435-449
- Rabe, H., Ritz, H.J., Jeserich, G. (1998): Voltage-gated potassium channels of Schwann cells from trout lateral line nerv: a combined elektrophysiological and molecular characterization. *Glia* 23: 329-38
- Radomski, M.W., Palmer, R.M., Moncada, S. (1990): An L-arginine/nitric oxide pathway present in human platelets regulates aggregation. *Proc. Natl. Acad. Sci. (USA)* 87: 5193-5197
- Randall, M.D., Alexander, S.P., Bennett, T., Boyd, E.A., Fry, J.R., Gardiner, S.M., Kemp, P.A., McCulloch, A.I., Kendall, D.A. (1996): An endogenous cannabinoid as an endothelium-derived vasorelaxant. *Biochem. Biophys. Res. Commun.* 229(1): 114-20

- Resnik, N., Collins, T., Atkinson, W., Bonthron, D.T., Dewey, C.J., Gimbrone, M.A. (1993): Platelet-derived growth factor B chain promoter contains a cis-acting fluid shear-stress-responsive element. Proc. Natl. Acad. Sci. USA 90: 4591-4595
- Richter, R., Groth, T., Halle, W. (1986): The membrane potential of pig aortic endothelial cells. Biomed Biochim Acta 45: 897-902
- Rubanyi, G.M., Romero, J.C., Vanhoutte, P.M. (1986): Flow-induced release of endothelium-derived relaxing factor. Am. J. Physiol. 250: H1145-1149
- Rusko, J., Tanzi, F., van Breemen, C., Adams, D.J. (1992): Calcium-activated potassium channels in native endothelial cells from rabbit aorta: Conductance, Ca^{2+} sensitivity and block. J.Physiol. (Lond.) 455: 601-621
- Sakai, T. (1990): Acetylcholine induces Ca-dependent K currents in rabbit endothelial cells. Jpn. J. Pharmacol. 53: 235-46
- Sanger, F., Nicklen, S., Coulson, A.R. (1977): DNA sequencing with chain-terminating inhibitors. Biotechnology 24: 104-8
- Schiffrin, E.L. (1994): The endothelium and control of blood vessel function in health and disease. Clin. Invest. Med. 17: 602-620
- Schilling, W.P., Rajan, L., Strobl-Jager, E. (1989): Characterization of the bradykinin stimulated calcium influx pathway of cultured vascular endothelial cells: Saturability, selectivity and kinetics. J. Biol. Chem. 264: 12838-12848
- Seifert, G., Kuprijanova, E., Zhou, M., Steinhauser, C. (1999): Developmental changes in the expression of Shaker- and Shab-related K⁺ channels in neurons of the rat trigeminal ganglion. Brain Res. Mol. Brain Res. 74: 55- 68
- Shen, J., Luscinskas, F.W., Connolly, A., Dewey, C.F., Gimbrone, M.A. (1992): Fluid shear stress modulates cytosolic free calcium in vascular endothelial cells. Am. J. Physiol. 262: C384-C390
- Skryma, R.N., Prevarskaya, N.B., Dufy-Barbe, L., Odessa, M.F., Audin, J., Dufy, B. (1997): Potassium conductance in the androgen-sensitive prostate cancer cell line, LNCaP: involvement in cell proliferation. Prostate 33: 112-22
- Sobey, C.G. (2001): Potassium channel function in vascular disease. Arterioscler. Thromb. Vasc. Biol. 21: 28-38

- Stanley, G. Rane (2000): The growth regulatory fibroblast IK channel is the prominent electrophysiological feature of rat prostatic cancer cells. *Biochem. and Biophys. Res. Com.* 269: 457-463
- Stringer, B.K., Cooper, A.G., Shepard, S.B. (2001): Overexpression of the G-protein inwardly rectifying potassium channel 1 (GIRK1) in primary breast carcinomas correlates with axillary lymph nodes metastasis. *Cancer Res.* 61: 582-8
- Taguchi, M., Alfer, J., Chwalisz, K., Beier, H.M., Classen-Linke, I. (2000): Endothelial nitric oxide synthase is differently expressed in human endometrial vessels during the menstrual cycle. *Mol Hum Reprod* 6: 185-90
- Taniguchi, J., Furukawa, K., Shigekawa, M. (1993): Maxi K^+ channels are stimulated by cyclic guanosine monophosphate-dependent protein kinase in canine coronary artery smooth muscle cells. *Pflügers Arch.* 423: 167-172
- Tracey, W.R., Peach, M.J. (1992): Differential muscarinic receptor mRNA expression by freshly isolated and cultured bovine aortic endothelial cells. *Circ. Res.* 70(2): 234-40
- Vaca, L., Kunze, D.L. (1994): Depletion of intracellular Ca^{2+} stores activates a Ca^{2+} -selective channel in vascular endothelium. *Am. J. Physiol.* 267: C920-C925
- Vanhoutte, P.M. (1988): The endothelium – modulator of vascular smooth-muscle tone. *Engl. J. Med.* 319: 513-514
- Vargas, F.F., Caviedes, P.F., Grant, D.S. (1994): Electrophysical characteristics of cultured human umbilical vein endothelial cells. *Mikrovasc. Res.* 47: 153-165
- Walsh, M.P., Kargacin, G.J., Kendrick-Jones, J., Lincoln, T.M. (1995): Intracellular mechanism involved in the regulation of vascular smooth muscle tone. *Can. J. Physiol. Pharmacol.* 73: 565-573
- Walter, U. (1989): Physiological role of cGMP and cAMP-dependent protein kinase in the cardiovascular system. *Rev. Physiol. Biochem. Pharmacol.* 113: 41-88
- Wiecha, J., Munz, B., Wu, Y., Noll, T., Tillmans, H., Waldecker, B. (1998): Blockade of Ca^{2+} -activated K^+ channels inhibits proliferation of human endothelial cells induced by basic fibroblast growth factor. *J. Vasc. Res.* 9: 247-58
- Yagihashi, N., Kasajima, H., Sugai, S., Matsumoto, K., Ebina, Y., Morita, T., Murakami, T., Yagihashi, S. (2000): Increased in situ expression of nitric oxide synthase in human colorectal cancer. *Virchows Arch.* 436(2): 109-14

- Yamamoto, K., de Waard, V., Fearn, C., Loskutoff, D.J. (1998): Tissue distribution and regulation of murine von Willebrand factor gene expression in vivo. *Blood* 92(8): 2791-801
- Yamamoto, Y., Imaeda, K., Suzuki, H. (1999): Endothelium-dependent hyperpolarization and intercellular electrical coupling in guinea-pig mesenteric arterioles. *J. Physiol.* 514: 505-513
- Ying, X., Minamiya, Y., Fu, C., Bhattacharya, J. (1996): Ca^{2+} waves in lung capillary endothelium. *Circ. Research* 79: 898-908
- Zanetta, L., Marcus, S.G., Vasile, J., Dobryansky, M., Cohen, H., Eng, K., Shamamian, P., Mignatti, P. (2000): Expression of Von Willebrand factor, an endothelial cell marker, is up-regulated by angiogenesis factors: a potential method for objective assessment of tumor angiogenesis. *Int. J. Cancer* 85: 281-8
- Zawar, C., Plant, T.D., Schirra C., Konnerth, A., Neumcke, B. (1999): Cell-type specific expression of ATP-sensitive potassium channels in the rat hippocampus. *J. Physiol.* 514: 327-41
- Zunkler, B.J., Henning, B., Grafe, M., Hildebrandt, A.G., Fleck, E. (1995): Elektrophysiological properties of human coronary endothelial cells. *Basic Res. Cardiol.* 90: 435-442