

## G Literaturverzeichnis

ABRAHAM DJ, VANCHEESWARAN R, DASHWOOD MR et al. (1997)  
Increased levels of endothelin-1 and differential endothelin type A and B receptor expression in scleroderma-associated fibrotic lung disease.  
Am J Pathol 151: 831-841

AHN K, BENINGO K, OLDS G et al. (1992)  
The endothelin-converting enzyme from human umbilical vein is a membran-bound metalloprotease similar to that from bovine aortic endothelial cells.  
Proc Natl Acad Sci 89: 8606-8610

AMES RS, SARAU HM, CHAMBERS JK et al. (1999)  
Human urotensin-II is a potent vasoconstrictor and agonist for the orphan receptor GPR14.  
Nature 401: 282-286

ARAI H, HORI S, ARAMORI I et al. (1990)  
Cloning and expression of a cDNA encoding an endothelin receptor.  
Nature 348: 730-732

ARINAMI T, ISHIKAWA M, INOUE A et al. (1991)  
Chromosomal assignments of the human endothelin family genes; the endothelin-1 gene (EDN1) to 6p23-p24, the endothelin-2 gene (EDN2) to 1p34, and the endothelin-3 gene (EDN3) to 20q13.2y13.3.  
Am J Hum Genet 48: 990-996

BATTISTINI B, D'ORLEANS-JUSTE P, SIROIS P (1993)  
Biology of disease. Endothelins: circulatory plasma levels and presence in other biologic fluids.  
Lab Invest 68: 600-628

BATRA VK, MCNEILL JR, XU Y et al. (1993)  
ET-B receptors on aortic smooth muscle cells of spontaneously hypertensive rats.  
Am Phys Soc 264: C479-484

BAX WA, SAXENA PR (1994)  
The current endothelin receptor classification: Time for reconsideration.  
Trends Pharmacol Sci 15: 379-386

BAZIL MK, LAPPE RW, WEBB RL (1992)  
Pharmacologic characterization of an endothelin A (ETA) receptor antagonist in conscious rats.  
Cardiovas Pharmacol 20: 940-948

BENIGNI A, ZOJA C, CORNA D et al. (1993)  
A specific endothelin subtype A receptor antagonist protects against injury in renal disease progression.  
Kidney Int. 44(2): 440-444

- BENIGNI A, COLOSIO V, BRENA C et al. (1998)  
Unselective inhibition of endothelin receptors reduces renal dysfunction in experimental diabetes.  
*Diabetes* 47: 450-456
- BERTI F, ROSSONI G, DELLA BELLA D et al. (1993)  
Nitric oxide and prostacyclin influence coronary vasomotor tone in perfused rabbit heart and modulate endothelin-1 activity.  
*J Cardiovasc Pharmacol* 22: 321-326
- BIRD JE, WALDRON TL, DORSO CR et al. (1993)  
Effects of endothelin antagonist BQ-123 on initial and delayed vascular responses induced by ET-1 in conscious, normotensive rats.  
*J Cardiovasc Pharmacol* 22: 69-73
- BIRNBAUMER L, ABRAMOVITZ J, BROWN AM (1990)  
Receptor-effector coupling by G-proteins.  
*Biochim Biophys Acta* 1031: 163-224
- BLOCH KD, FRIEDRICH SP, LEE ME, et al. (1989)  
Structural organization and chromosomal assignment of the gene encoding endothelin.  
*J Biol Chem* 264: 10851-10857
- BOULANGER CM, TANNER FC, BEA ML et al. (1992)  
Oxidized low density lipoproteins induce mRNA expression and release of endothelin from human and porcine endothelium.  
*Circ Res* 70(6): 1191-1197
- CHAN L, CHITTINANDANA A, SHAPIRO JI et al. (1994)  
Effect of an endothelin-receptor antagonist on ischemic acute renal failure.  
*Am J Physiol* 266: F135-138
- CLOZEL M, GRAY GA, BREU V et al. (1992)  
The endothelin ETB receptor mediates both vasodilatation and vasoconstriction in vivo.  
*Biochem Biophys Res Commun* 186: 867-873
- CLOZEL M, BREU V, GRAY G et al. (1994)  
Pharmacological characterization of bosentan, a new potent orally active non-peptide endothelin receptor antagonist.  
*J Pharmacol Exp Ther* 270: 228-235
- CORDER R, DOUTHWAITE JA, LEES DM, et al. (2001)  
Health: Endothelin-1 synthesis reduced by red wine.  
*Nature* 414: 863-864
- DENUCCI G, THOMAS R, D'ORLEANS-JUSTE P et al. (1988)  
Pressor effects of circulating endothelin are limited by its removal in the pulmonary circulation and by the release of prostacyclin and endothelium-derived relaxing factor.  
*Proc Natl Acad Sci USA* 85: 9797-9800

DERAY G, CARAYON A, MAISTRE G et al. (1992)  
Endothelin in chronic renal failure.  
*Nephrol Dial Transplant* 7(4): 300-305

DOUGLAS SA, MEEK TD, OHLSTEIN EH (1994)  
Novel receptor antagonists welcome a new era in endothelin biology.  
*Pharmacol Sci* 15: 313-316

EMORI T, HIRATA Y, KANNO K et al. (1991)  
Endothelin-3 stimulates production of endothelium-derived nitric oxide via phosphoinositide breakdown.  
*Biochem Biophys Res Commun* 174: 228-235

EMOTO N, YANAGISAWA M (1995)  
Endothelin-converting enzyme-2 is a membrane-bound, phosphoramidon-sensitive metalloprotease with acidic pH optimum.  
*J Biol Chem* 270: 15262-15268

FILEP JG, FOLDES-FILEP E, ROUSSEAU A et al. (1993)  
Vascular responses to endothelin-1 following inhibition of nitric oxide synthesis in the conscious rat.  
*Br J Pharmacol* 110: 1213-1221

FLORIJN KW, DERKX FH, VISSER W et al. (1991)  
Elevated plasma levels of endothelin in pre-eclampsia.  
*J Hypertension* 9 (Suppl 6): 166-167

FUKU M, NAKAMURA T, EBIHARA I et al. (1993)  
Gene expression for endothelin and their receptors in glomeruli of diabetic rats.  
*J Lab Clin Med* 122: 149-156

FURCHGOTT RF, ZAWADZKI JF (1980)  
The obligatory role of endothelial cells in relaxation of arterial smooth muscle by acetylcholine.  
*Nature* 288: 373-376

GELLAI MR, DEWOLF R, PULLEN M et al. (1994)  
Distribution and functional role of renal ET receptors subtypes in normotensive and hypertensive rats.  
*Kidney Int* 46: 1287-1294

GELLAI M, JUGUS M, FLETCHER T et al. (1994)  
Reversal of postischemic acute renal failure with a selective endothelin A receptor agonist in the rat.  
*J Clin Invest* 93: 900-908

GRAY GA, WEBB DJ (1996)  
The therapeutic potential of endothelin receptor antagonists in cardiovascular disease.  
*Pharmacol Ther* 72: 109-148

- GRIENDING KK, TSUDA T, ALEXANDER RW (1989)  
Endothelin stimulates diacylglycerol accumulation and activates protein kinase C in cultured vascular smooth muscle cells.  
J Biol Chem 264: 8237-8240
- HARDER DR (1987)  
Pressure-induced myogenic activation of cat cerebral arteries is dependent on intact endothelium.  
Circ Res 60: 102-107
- HARRISON VJ, BAMES K, TURNER AJ et al. (1995)  
Identification of endothelin-1 and big endothelin-1 in secretory vesicles isolated from bovine aortic endothelial cells.  
Cell Biol 92: 6334-6338
- HOCHER B, RUBENS C, HENSEN J et al. (1992)  
Intracellular distribution of endothelin-1 receptors in rat liver cells.  
Biochem Biophys Res Commun 184: 498-503
- HOCHER B, ROHMEISS P, ZART R et al. (1995)  
Significance of the endothelin receptor subtypes in the kidneys of spontaneously hypertensive rats; renal and hemodynamic effects of endothelin receptor antagonists.  
J Cardiovas Pharmacol 26 (Suppl 3): 470-472
- HOCHER B, LIEFELDT L, THÖNE-REINEKE C et al. (1996)  
Characterization of the Renal Phenotype of Transgenic Rats Expressing the Human Endothelin-2 Gene.  
Hypertension 28: 196-201
- HOCHER B, ROHMEISS P, ZART R et al. (1996)  
Function and expression of endothelin receptor subtypes in the kidneys of spontaneously hypertensive rats.  
Cardiovas Res 31: 499-510
- HOCHER B, THÖNE-REINEKE C, ROHMEISS P et al. (1997)  
Endothelin-1 transgenic mice develop renal cysts, interstitial fibrosis and glomerulosclerosis but not hypertension.  
J Clin Invest 99: 1380-1389
- HOCHER B, THÖNE-REINICKE C, BAUER C et al. (1997)  
The paracrine endothelin system; pathophysiology and implications in clinical medicine.  
Eur J Clin Chem Clin Biochem 35: 175-189
- HOCHER B, LUN A, PRIEM F et al. (1998)  
Renal endothelin system in diabetes: comparison of angiotensin-converting enzyme inhibition and endothelin-A antagonism.  
J Cardiovasc Pharmacol 31: S492-S495
- HOLDE WE, MCCALL E (1984)  
Hypoxia-induced contractions of porcine pulmonary artery strips depend on intact endothelium.  
Exp Lung Res 7: 101-112

- INOUE A, YANAGISAWA M, KIMURA S et al. (1989)  
The human endothelin family: three structurally and pharmacologically distinct isopeptides predicted by three separate genes.  
Proc Natl Acad Sci USA 86: 2863-2867
- INOUE A, YANAGISAWA M, TAKUWA Y et al. (1989)  
The human Preproendothelin-1 gene.  
J Biol Chem 264: 14954-14959
- ITOH Y, YANAGISAWA M, OHKUBO S et al. (1988)  
Cloning and sequence analysis of DNA encoding the precursor of a human endothelium-derived vasoconstrictor peptide, endothelin; identity of human and porcine endothelin  
FEBS Lett. 231: 440-444
- KARET FE, DAVENPORT AP (1996)  
Localization of endothelin peptides in human kidney.  
Kidney Int 49(2): 382-387
- KARNE S, JAYAWICKREME CK, LERNER MR (1993)  
Cloning and characterization of endothelin-3 specific receptor (ETC-receptor) from *Xenopus laevis* dermal melanophores.  
J Biol Chem, 268: 19126-19133
- KASUYA Y, TAKUWA Y, YANAGISAWA M et al. (1989)  
Endothelin-1 induces vasoconstriction through two functionally distinct pathways in porcine coronary artery: contribution of phosphoinositide turnover.  
Biochem Biophys Res Commun 161: 1049-1055
- KATUSIC ZS, SHEPHERD T, VANHOUTTE PM (1987)  
Endothelium-dependent contraction to stretch in canine basilar arteries.  
Am J Physiol 252: H671-673
- KEDZIERSKI RM, YANAGISAWA M (2001)  
ENDOTHELIN SYSTEM: The double-edged sword in health and disease.  
Annu Rev Pharmacol Toxicol 41: 851-876
- KLOOG K, SOKOLOVSKY M (1989)  
Similarities in mode and sides of action of sarafotoxins and endothelins.  
Trends Pharmacol Sci 10: 212-214
- KOHAN DE, PADILLA E (1992)  
Endothelin-1 is an autocrine factor in rat inner medullary collecting ducts.  
Am J Physiol 263: F607-612
- KROLEWSKI AS, WARRAM JH, RAND LI et al. (1987)  
Epidemiologic approach to the etiology of type I diabetes mellitus and its complications.  
N Engl J Med 317: 1390-1398

KUCHAN MJ, FRANGOS JA (1993)

Shear stress regulates endothelin-1 release via protein kinase C and cGMP in cultured endothelial cells.

*Am J Physiol* 264: H150-H156

KURIHARA Y, KURIHARA H, SUZUKI H et al. (1994)

Elevated blood pressure and craniofacial abnormalities in mice deficient in endothelin-1.

*Nature* 368: 703-710

LERMAN A, BURNETT JC Jr. (1992)

Intact and altered endothelium in the regulation of vasomotion.

*Circulation* 86 (6 Suppl): III 12-19

LI JS, SCHIFFRIN EL (1995)

Effect of chronic treatment of adult spontaneously hypertensive rats with an endothelin receptor antagonist.

*Hypertension* 25: 495-500

LÜSCHER TF, SEO BG, BÜHLER FR (1993)

Potential role of endothelin in hypertension. Controversy on endothelin in hypertension.

*Hypertension* 21: 752-757

MALLAT A, PREAUX AM, SERRADEIL-LE GAL C et al. (1996)

Growth inhibitory properties of Endothelin-1 in activated human hepatic stellate cells: a cyclic adenosine monophosphate-mediated pathway. Inhibition of both extracellular signal-regulated kinase and c-Jun kinase and upregulation of Endothelin B receptors.

*J Clin Invest* 98: 271-278

MARGULIES KB, HILDEBRAND FL, HEUBLEIN DM et al. (1991)

Radiocontrast increases plasma and urinary endothelin-1.

*J Am Soc Nephrol* 2: 1041-1045

MARSEN TA, SCHRAMEK H, DUNN MJ (1994)

Renal actions of endothelin: linking cell signaling pathways to kidney disease.

*Kidney Int* 45: 336-344

MARTIN-NIZARD F, HOUSSAINI HS, LESTAVEL-DELATTRE S et al. (1991)

Modified low density lipoproteins activate human macrophages to secrete immunoreactive endothelin.

*FEBS Letters* 293: 127-130

MCMAHON EG, PALOMO MA, MOORE WM et al. (1991)

Phosphoramidon blocks the pressor activity of porcine big endothelin-1-(1-39) in vivo and conversion of big endothelin-1-(1-39) to endothelin-1-1(1-21) in vitro.

*Proc Natl Acad Sci* 88: 703-707

MASAKI T, YANAGISAWA M, GOTO K (1992)

Physiology and pharmacology of endothelins.

*Med Res. Rev* 12: 391-421

- MILLER V, BURNETT JC (1992)  
Modulation of NO and endothelin by chronic increase of blood flow in canine femoral arteries.  
*Am J Physiol* 263: H103-H108
- MILNER P, BODIN P, LOESCH A et al. (1990)  
Rapid release of endothelin and ATP from isolated aortic endothelial cells exposed to increased flow.  
*Biochem Biophys Res Commun* 170: 649-656
- MURER L, ZACCHELLO G, BASSO G et al. (1994)  
Immunohistochemical distribution of endothelin in biopsies of pediatric nephrotic syndrome.  
*Am J Nephrol* 14(3): 157-161
- NAKAMURA T, EBIHARA I, TOMINO Y et al. (1996)  
Alteration of growth-related proto-oncogene expression in diabetic glomeruli by a specific endothelin receptor A antagonist.  
*Nephrol Dial Transplant* 11: 1528-1531
- NAMBI P, PULLEN M, CONTINO LC et al. (1990)  
Upregulation of renal endothelin receptors in rats with cyclosporin-A-induced nephrotoxicity.  
*Eur J Pharmacol* 187: 113-116
- OHTA K, HIRATA Y, SHICHIRI M et al. (1991)  
Urinary excretion of endothelin-1 in normal subjects and patients with renal disease.  
*Kidney Int* 39 (2): 307-311
- ORISIO S, BENIGNI A, BRUZZI L et al. (1993)  
Renal endothelin gene expression is increased in remnant kidney and correlates with disease progression.  
*Kidney Int* 43 (2): 354-358
- PALMER RMJ, FERRIGE AG, MONCADA S (1987)  
Nitric oxide release accounts for the biological activity of endothelium derived relaxing factor.  
*Nature* 327: 524-526
- PERNOW J, BOUTIER JF, FRANCO-CERECEDA A et al. (1988)  
Potent selective vasoconstrictor effects of endothelin in the pig kidney in vivo.  
*Acta Physiol Scand* 134(4): 573-574
- RASCHAK M, UNGER L, RIECHERS L et al. (1995)  
Receptor selectivity of endothelin antagonists and prevention of vasoconstriction and endothelin-induced sudden death.  
*J Cardiovasc Pharmacol* 26 (Suppl 3): S379-399
- RIECHERS H, ALBRECHT H-P, AMBERG W et al. (1996)  
Discovery and optimization of a novel class of orally active non-peptidic endothelin-A receptor antagonists.  
*J Med Clin* 39: 2123-2128

- ROCCATELLO D, MOSSO R, FERRO M et al. (1994)  
Urinary endothelin in glomerulonephritis patients with normal renal function.  
*Clin Nephrol* 41(6): 323-330
- RUBANYI GM, VANHOUTTE PM (1985)  
Hypoxia releases a vasoconstrictor substance from the canine vascular endothelium.  
*J Physiol Lond* 364: 45-56.
- RUBANYI GM, POLOKOFF MA (1994)  
Endothelins: molecular biology, biochemistry, pharmacology, physiology and pathophysiology.  
*Pharmacol Rev* 46: 328-415
- SAITO Y, KAZUWA N, SHIRAKAMI G et al. (1991)  
Endothelin in patients with chronic renal failure.  
*J Cardiovasc Pharmacol* 17 (Suppl 7): S437-439
- SAKURAI T, YANAGISAWA M, TAKUWA Y et al. (1990)  
Cloning of a cDNA encoding a non-isopeptide-selective subtype of the endothelin receptor.  
*Nature* 348: 732-735
- SAMSON WK, SKALA KD, ALEXANDER BD et al. (1990)  
Pituitary site of action of endothelin: selective inhibition of prolactin release in vitro.  
*Biochem Biophys Res Commun* 169: 737-743
- SAMSON WK, SKALA KD, ALEXANDER BD et al. (1991)  
Possible neuroendocrine actions of endothelin-3  
*Endocrinology* 128: 1465-1473
- SCHWEIZER A, VALDENAIRE O, NELBOCK P et al. (1997)  
Human endothelin-converting enzyme (ECE-1) : Three isoforms with distinct subcellular localizations.  
*Biochem J* 328: 871-877
- SHINMI O, KIMURA S, SAWAMURA T et al. (1989)  
Endothelin-3 is a novel neuropeptide: isolation and sequence determination of endothelin-1 and endothelin-3 in porcine brain.  
*Biochem Biophys Res Commun* 164: 587-593
- SIMONSON, MS (1993)  
Endothelins: multifunctional renal peptides.  
*Physiol Rev* 73: 375-411
- WAGNER OF, CHRIST G, WOJTA et al. (1992)  
Polar secretion of endothelin-1 by cultured endothelial cells.  
*J Biol Chem* 267: 16066-16068
- WARNER TD, ALLOCK GH, MICKLEY EJ et al. (1993)  
Comparative studies with the endothelin receptor antagonist BQ 123 and PD 142893 indicates at least three endothelin receptors.  
*J Cardiovasc Pharmacol* 22 (Suppl 8): 117-120.



WARRENS AN, CASSIDY MJ, TAKAHASHI K et al. (1990)

Endothelin in renal failure.

Nephrol Dial Transplant 5: 418-422

WIDIMSKY J, HORKY K, DVORAKOVA J (1991)

Plasma endothelin-1,2 levels in mild and severe hypertension.

J Hypertension 9 (Suppl 6): 194-195

WILKES BM, PEARL AR, MENTO PF et al. (1991)

Glomerular endothelin receptors during initiation and maintenance of ischemic acute renal failure in rats.

Am J Physiol 260 (1Pt 2): F110-118

WILSON DB, DORFMAN DM, ORKIN SH (1990)

A nonerythroid GATA-binding protein is required for function of the human preproendothelin-1 promoter in endothelial cells.

Mol Cell Biol 10: 4854-4862

XU D, EMOTO M, GIAID A et al. (1994)

ECE-1: A membrane bound metalloprotease that catalyzes the proteolytic activation of big endothelin-1.

Cell 78: 473-485

YAMAUCHI T, OHNAKA K, TAKAYANANAGI R et al. (1990)

Enhanced secretion of endothelin-1 by elevated glucose levels from cultured bovine aortic endothelial cells.

FEBS Lett 267: 16-18

YANAGISAWA M, KURIHARA H, KIMURA S et al. (1988)

A novel potent vasoconstrictor peptide produced by vascular endothelial cells.

Nature 332: 411-415

YANAGISAWA M, HAMMER RE, RICHARDSON JA et al. (2000)

Disruption of ECE-1 and ECE-2 reveals a role for endothelin converting enzyme-2 in murine cardiac development.

J Clin Invest 105: 1373-1382

YOSHIMOTO S, ISHIZAKI Y, SASAKI T et al. (1991)

Effect of carbon dioxide and oxygen on endothelin production by cultured porcine cerebral endothelial cells.

Stroke 22: 378-383

ZATZ R, MEYER TW, RENNKE HG et al. (1985)

Predominance of hemodynamic rather than metabolic factors in the pathogenesis of diabetic glomerulopathy.

Proc Natl Acad Sci USA 82: 5963-5967