

## Abkürzungsverzeichnis

- Acc.-Nr      Accession-Number
- ACE          Angiotensine converting enzyme
- Ang-1        Angiopoietin-1
- Ang-2        Angiopoietin-2
- AP-1        Nuklear-Faktor-Aktivator-Protein-1
- ARNT        Aryl hydrocarbon receptor translocator
- ATCC        American Type Culture Collection
- bFGF        basic fibroblast growth factor
- bp          Basenpaar
- CAMs        Cell-adhesion-molecules
- cDNA        complementary DNA
- gDNA        Gesamt-DNA
- cGMP        zyklisches Guanosin-mono-phosphat
- CNP        C-type natriuretic peptide
- CO          Kohlenmonoxid
- COX        Cyclooxygenase
- CTP        Cytidin-Triphosphat
- dNTP        Desoxynucleotid
- DNA        Desoxyribo-nucleid-acid
- DSMZ        Deutsche Sammlung von Mikroorganismen und Zellkulturen
- DTT        Dithiotreitol
- DEPC        Diethylcyanophosphonat
- ECGF        Endothelial cell growth factor
- EDHF        Endothelium-derived hyperpolarizing factor
- EDRF        Endothelium derived relaxing factor
- EDTA        Ethylendiamintetraessigsäure
- egr-1        early growth response-1
- EGF        Epidermal growth factor
- Elk-1        Transkriptionsfaktor aus der Ets-Familie
- eNOS        endotheliale Stickoxidsynthetase
- ERK 1/2     Extracellular-related-protein-kinase 1 + 2
- ESAF        Endothelial cell stimulating angiogenic factor
- ET-1        Endothelin-1
- FA-        Buffer Formamide-Buffer
- FAK        Focal adhesion kinase
- Gas-3        Growth arrest-specific-protein-3
- GTP        Guanosin-Triphosphat
- HCEC        Human coronary macrovascular endothelial cells
- HCMEC      Human coronary microvascular endothelial cells
- HEGF        Human epidermal growth factor
- HEPES      N`-2-hydroxyethylpiperazin-N`-2-ethansulfonsäure
- HIF-1 $\alpha$     Hypoxia-inducible factor- $\alpha$
- HRE        Hypoxia-Response-Elements
- HSP        Hitzeschock-Protein
- HSPG        Heparan-sulfat-proteo-glykane
- HSS        Hanks´ Salt Solution
- HUAEC      Human umbilical arterial endothelial cells
- HUVEC      Human umbilical vascular endothelial cells
- IAP        Integrin-assoziiertes Protein
- ICAM-1     Intercellular adhesin molecule-1
- IERGs      Immediate early response genes
- IGF-1        Insulin-like growth factor-1

- IL-4,12,18 Interleukin 4,12,18
- IFN  $\alpha,\beta,\gamma$  Interferon  $\alpha,\beta,\gamma$
- JNK-2 c-Jun-NH<sub>2</sub>-terminal-kinase
- LDL Low-density-lipoprotein
- MAPK-1 Mitogen-aktivierte Proteinkinase-1
- MCP-1 Monocyte chemotactic protein-1
- METH-1,2 Metalloprotease with thrombospondine motifs-1,2
- MMPs Matixmetalloproteinasen
- Mn-SOD Manganese superoxide dismutase
- mRNA Messenger ribonucleid acid
- NCBI National Centre for Biotechnology Information
- NFkB Nuclear- Faktor-Kappa-B
- NO Stickoxid
- NOS Nitrit-Oxid-Synthetase
- O<sup>2-</sup> Superoxidanion
- OD Optical density
- ODD Oxygen-dependent degradation domain
- PA Gewebsplasminogenaktivator
- PAI-1 Plasminogen Aktivator Inhibitor
- PAS Bezeichnung für die transkriptionsfaktoren Per, Ahr/ARNT, Sim
- PBS Phosphat Saline Puffer
- PCR Polymerase chain reaction
- PDGF-B Platelet derived growth factor
- PECAM-1 platelet-endothelial-cell-adhesion molecule-1
- PEX proteolytisches Fragment der Matrix Metalloproteinase-2
- PF-4 Plättchenfaktor-4
- PI3-K Phosphatidylinositol 3-Kinase
- PKC Proteinkinase C
- PIGF Placental growth factor
- pVHL von-Hippel-Lindau Tumor Suppressor Protein
- RNA Ribo-nucleid-acid
- RT Reverse transcription
- SDS Sodiumdodecylsulfat
- SOD-2 Supreoxid-Dismutase-2
- SRE Serum response“ element
- SSC Saline-sodium citrate buffer
- SSRE Shear stress response element
- Strept.-AP Streptavidin-alkalische Phosphatase
- TBE Tris-Borsäure-EDTA
- TF Tissue factor
- tfcD beta-tubulin folding cofactor D
- TGF- $\beta$  Transforming growth factor  $\beta$
- Tie-2 tyrosine kinase that contains immunoglobulin-like loops and epidermal-growth-factor-similar domains 2 (endothelialer Tyrosin-Kinase-Rezeptor)
- TIMPs Tissue-inhibitors of MMP (1,2,3)
- TNF Tumor Nekrose Faktor
- tPA Tissue plasminogen activator
- TSP-1 Thrombospondin-1
- TSR Thrombospondin Repeat-1 Supergene Family
- u-Pa Urokinase- Plasminogenaktivator
- UTP Uridin-Triphosphat
- VCAM-1 Vascular cell adhesion molecule
- VEGF Vascular endothelial growth factor
- VEGF-R1 VEGF-Rezeptor-1