

ABBREVIATIONS

| | |
|-------------------|----------------------------------------------|
| ACh | acetylcholine |
| Ang-II | angiotensin II |
| Δ BP | maximal change in blood pressure |
| bFGF | basic fibroblast growth factor |
| Bmax | maximal binding |
| BQ123 | endothelin A receptor selective antagonist |
| BSA | bovine serum albumin |
| cGMP | cyclic guanosine 3',5'-monophosphate |
| DAG | diacyl glycerol |
| DAP | diastolic arterial pressure |
| DMEM | Dulbecco's modified Eagle's medium |
| DNA | deoxyribonucleic acid |
| DRC | dose response curves |
| E | epinephrine |
| EC | endothelial cell |
| ECE-1 | endothelin-converting enzyme-1 |
| ECDF | endothelial cell derived constricting factor |
| EDTA | ethylene diamine tetra acetic acid |
| EGFR | epidermal growth factor receptor |
| ET-1 | endothelin-1 |
| ET _A | endothelin A receptor |
| ET _B | endothelin B receptor |
| ETs | endothelins |
| FCS | fetal calf serum |
| GABA _A | gamma-amino butyric acid A receptor |
| GPCR | G protein-coupled receptor |
| GRK | G protein-coupled receptor kinase |
| hET _A | human endothelin A receptor |
| HR | heart rate |
| i.a. | intraarterial |
| IGF-I | insulin like growth factor |
| i.p. | intraperitoneal |

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|---------------|--------------------------------------------|
| ID | internal diameter |
| KCl | potassium chloride |
| K/X | ketamine-xylazine |
| S-K/X | S-ketamine-xylazine |
| Kd | dissociation constant |
| Ki | inhibitory constant |
| L-NAME | n-nitro-L-arginine methyl ester |
| LU 302146 | endothelin A receptor-specific antagonist |
| MAP | mean arterial pressure |
| mRNA | messenger RNA |
| MOPS | 3-(N-Morpholino) propane sulfonic acid |
| NA | normalized area |
| NE | norepinephrine |
| NO | nitric oxide |
| NSCC | non-selective cation channels |
| Non-tg | non-transgenic |
| PB | pentobarbital sodium |
| PBS | phosphate buffer saline |
| PDGF | platelet-derived growth factor |
| PDGF | platelet-derived growth factor |
| PE | phenylephrine |
| PGH2 | prostaglandin H2 |
| PIP2 | phosphoinositol-4,5- bisphosphate |
| PKA | protein kinase A |
| PKC | protein kinase C |
| PLC | phospholipase C |
| Poly A | polyadenylation |
| SAP | systolic arterial pressure |
| SD | Sprague-Dawley |
| sd | standard deviation |
| SHR | spontaneous hypertensive rats |
| SHRSP | stroke prone spontaneous hypertensive rats |
| SM22 α | smooth muscle 22 alpha protein |
| SMA | small mesenteric artery |

| | |
|--------------|-----------------------------------|
| SMC | smooth muscle cell |
| SNP | sodium nitroprusside |
| SOCC | store-operated calcium channels |
| SR | sarcoplasmic reticulum |
| tg | transgenic |
| TGF- β | transforming growth factor |
| Tris | tris (hydroxymethyl)-aminomethane |
| TXA2 | thromboxane A2 |
| U46619 | TXA2 mimetic |
| VOCC | voltage operated calcium channels |
| VSMC | vascular smooth muscle cells |