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**Redox regulation of gasotransmission in the vascular system:
A focus on angiogenesis**

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Running title: Redox regulation of gasotransmitters

Non-standard abbreviations:

SDF-1: Stromal Cell-derived Factor 1, PAD: Peripheral Arterial Disease, GPx: Glutathione Peroxidase, TAK1: Transforming Growth Factor-B-Activated-Kinase 1, PTP1B: Protein Tyrosine Phosphatase 1B, EDRF: Endothelial-Derived Relaxing Factor (EDRF), BH₄: Tetrahydrobiopterin, L-NMMA: NG-monomethyl-L-arginine, L-NAME: NG-nitro-L-arginine-methyl ester, HRE: Hypoxia Response Element, ADMA: Asymmetric Dimethylarginine, DDAH: Dimethylarginine Dimethylaminohydrolase I, DDAHII: Dimethylarginine Dimethylaminohydrolase II, NAC: N-Acetylcysteine, CORM-1: Tricarbonyl-Dichlororuthenium (II), CORM-3: Tricarbonylchloro(glucinato)ruthenium (II), CORM: Carbon Monoxide Releasing Molecule, SnPPIX: Tin Protoporphyrin IX, ZnPP: Zinc Protoporphyrin, Bach-1: BTB Domain and CNC Homolog 1 (Bach1), HNO: nitroxyl.

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