References

- Liu et al. Association of a functional cytochrome P450 4F2 haplotype with urinary 20-HETE and hypertension. J. Am. Soc. Nephrol. 19, 714-721, 2008.
- 2. Meseguer et al. Kidney androgen-regulated protein transgenic mice show hypertension and renal alterations mediated by oxidative stress. Circulation. 119, 1908-1917, 2009.
- 3. Dolegowska, B., Blogowski, W., Domanski L. Is it possible to predict the early post-transplant allograft function using 20-HETE measurements? A preliminary report. Transpl Int. 22, 546-553, 2009.
- 4. Liu et al. Overexpression of cytochrome P450 4F2 in mice increases 20-hydroxyeicosatetraenoic acid production and arterial blood pressure. Kidney. International. 75, 1288-1296, 2009.
- 5. Wang et al. Selective inhibitors of CYP2J2 related to terfenadine exhibit activity strongly against human cancers *in vitro* and *in vivo*. J. Pharmacol. Exp. Ther. 329, 908-918, 2009.
- Cuez, Malik, Tunctan et al. A synthetic analogue of 20-HETE, 5,14-HEDGE, reverses endotoxin-Induced hypotension via increased 20-HETE levels associated with decreased iNOS protein expression and vasodilator prostanoid production in rats. Basic Clin. Pharmacol. Toxicol. 106, 378-388, 2010.
- 7. Malik et al. 2,3',4,5'-Tetramethoxystilbene prevents deoxycorticosterone-salt-induced hypertension: contribution of cytochrome P-450 1B1. Am. J. Physiol. Heart Circ. Physiol. 299, H1891-H1901, 2010.
- 8. Malik et al. Cytochrome P450 1B1 contributes to angiotensin II-induced hypertension and associated pathophysiology. Hypertension 56, 667, 2010.
- 9. Tunctan et al. Contribution of vasoactive eicosanoids and nitric oxide production to the effect of selective cyclooxygenase-2 inhibitor, NS-398, on endotoxin-induced hypotension in rats. Basic Clin. Pharmacol. Toxicol. 107, 877-882, 2010.
- 10. Imaizumi et al. L-4F differentially alters plasma levels of oxidized fatty acids resulting in more anti-inflammatory HDL in mice. Drug Metab. Letters, 4, 139-148, 2010.
- 11. Cervenka, Kramer, Falck, Imig, Hammock et al. Combined inhibition of 20-HETE formation and of EET degradation attenuates hypertension and hypertension-induced end-organ damage in Ren-2 transgenic rats. Clinical Science 118, 617-632. 2010.
- 12. Cervenka, Kramer, Falck, Imig et al. Intrarenal CYP-450 metabolites of arachidonic acid in the regulation of the nonclipped kidney function in two-kidney, one-clip Goldblatt hypertensive rats. J Hypertens 28, 582-593, 2010.
- 13. Hu, Wang et al. Peripheral and central augmentation indexes in relation to the CYP4F2 polymorphisms in Chinese. J Hypertens 29, 501-508, 2011.
- 14. Buharalioglu et al. Piroxicam reverses endotoxin-induced hypotension in rats: contribution of vasoactive eicosanoids and nitric oxide. Basic Clin Pharmacol Toxicol 186–194, 2011.
- 15. Na-Bangchang et al. Study on the association between environmental cadmium exposure, cytochrome P450-mediated 20-HETE, heme-oxygenase-1 polymorphism and hypertension in Thai population residing in a malaria endemic areas with cadmium pollution. Environ Toxicol Pharmacol 31, 416-426, 2011.
- 16. Grande et al. Increased oxidative stress, the renin-angiotensin system, and sympathetic overactivation induce hypertension in kidney androgen-regulated protein transgenic mice. Free Radical Biology & Medicine, 51: 1831-1841. 2011.
- 17. Nikolaeva et al. The circadian clock modulates renal sodium handling. J. Am. Soc. Nephrol. 23: 1019-1026, 2012.
- 18. Onoe et al. Increase of 20-HETE synthase after brain ischemia in rats revealed by PET study with (11)C-labeled 20-HETE synthase-specific inhibitor. J Cereb Blood Flow Metab 32, 1737-1746, 2012.
- 19. Dong H. Metabolomic profiling of lipids for biomarker discovery. Biochem Anal Biochem 1, 5, 2012.
- 20. Fordsmann JC, Ko RW, Choi HB, Thomsen K, Witgen BM, Mathiesen C, Lønstrup M, Piilgaard H, MacVicar BA, Lauritzen M. Increased 20-HETE synthesis explains reduced cerebral blood flow but not impaired neurovascular coupling after cortical spreading depression in rat cerebral cortex. J Neurosci 33, 2562-2570, 2013.
- 21. Stobart JL, Lu L, Anderson HD, Mori H, Anderson CM. Astrocyte-induced cortical vasodilation is mediated by D-serine and endothelial nitric oxide synthase. PNAS USA. 110, 3149-3154, 2013.
- 22. Tunctan 20-HETE mimetics or inhibitors in the treatment of cancer patients with sepsis and septic shock. International Journal of Cancer Studies & Research (IJCR) 2:101, 2013.
- 23. Tunctan et al. NS-398 reverses hypotension in endotoxemic rats: Contribution of eicosanoids, NO, and peroxynitrite. Prostaglandins & other Lipid Mediators 104–105 93–108, 2013 .
- 24. Alexanian, A, Sorokin A. Targeting 20-HETE producing enzymes in cancer--rationale, pharmacology and clinical potential. Onco Targets and Therapy 6: 243-255, 2013.

- 25. Raso et al. N-Palmitoylethanolamide protects the kidney from hypertensive injury in spontaneously hypertensive rats via inhibition of oxidative stress. Pharmacological Research 76: 67-76, 2013.
- 26. Eid et al. 20-HETE and EETs in diabetic nephropathy: A novel mechanistic pathway. PLOS One 8: e70029, 2013
- 27. Ross et al. Proinflammatory high-density lipoprotein results from oxidized lipid meditors in the pathogenesis of both idiopathic and associated types of pulmonary arterial hypertension. Pulmonary circulation 5: 640-648, 2015
- 28. Soleimani et al. (2016) Prostaglandin-E2 mediated increase in calcium and phosphate excretion in a mouse model of distal nephron salt wasting. PLOS One 11(7): e0159804, 2016
- 29. Kingma, JG et al. Effect of subtotal renal nephrectomy on CYP450-mediated metabolism of arachidonic acid: A potential player in pathogenesis of renocardiac syndrome? Cardiovasc Pharm Open Access doi: 10.4172/2329-6607.1000197, 2016
- 30. Nowicki, S. et al. Role of 20-hydroxyeicosatetranoic acid (20-HETE) in androgen-mediated cell viability in prostate cancer cells. Hormones and Cancer 8: 243-256, 2017
- 31. Elmarakby, A. A. et al. Meloxicam fails to augment the reno-protective effects of soluble epoxide hydrolase inhibition in streptozotocin-induced diabetic rats via increased 20-HETE levels. Prostaglandins and Other Lipid Mediators 132: 3-11, 2017
- 32. Anderson, C. M. et al. Astrocytes drive cortical vasodilatory signaling by activating endothelial NMDA receptors. JCBFM, DOI: 10.1177/0271678X17734100., 2017.
- 33. El-Mas, M. M. et al. CYP4A/CYP2C modulation of the interaction of calcium channel blockers with cyclosporine on EDHF-mediated renal vasodilations in rats. Toxicology and Applied Pharmacology 334: 110-119, 2017.
- 34. Costa, T.J. et al. Detrimental effects of testosterone addition to estrogen therapy involve cytochrome P-450-induced 20-HETE synthesis in aorta of ovariectomized spontaneously hypertensive rat (SHR), a model of postmenopausal hypertension. Frontiers in Physiology 9: 490. 2018.
- 35. Boonprasert, K. et al. Is renal tubular cadmium toxicity clinically relevant? Clinical Kidney Journal, 2018, 1-7. 2018.
- 36. Tunaru, S. et al. 20-HETE promotes glucose-stimulated insulin secretion in an autocrine manner through FFAR1. Nature Communications 9: 177. 2018.