

1. Kim et al. Four US Patents: 6,440,682, 6,534,282, 7,695,927 and 8,409,821.  
Issue Dates: 8/2002 <http://www.freepatentsonline.com/6440682.pdf> (Activity),  
3/2003 <http://www.freepatentsonline.com/6534282.pdf> (Diagnostics)  
4/2010 <http://www.freepatentsonline.com/7695927.pdf> (Diagnostics)  
4/2013 <http://www.freepatentsonline.com/8409821.html>
2. Spiecker et al. Risk of coronary artery disease associated with polymorphism of the cytochrome p450 epoxygenase CYP2J2. *Circulation* 110, 2132, 2004.
3. Kim et.al. Computational characterization of a series of eicosanoids. *Lett. Drug Design & Discovery* 2, 322-325. 2005
4. Wang et al. Cytochrome P450 2J2 promotes the neoplastic phenotype of carcinoma cells and is up-regulated in human tumors. *Cancer Res.* 65, 4707, 2005.
5. Zhang et.al. Effects of atorvastatin on expression of cytochrome P450 epoxygenase 2C11 in spontaneously hypertensive rats. *International Journal of Automation and Computing*, 20, 305-311, 2006.
6. Alkayed, et al. Polymorphisms in the human soluble epoxide hydrolase gene EPHX2 linked to neuronal survival after ischemic injury. *The Journal of Neuroscience*, 27(17): 4642-4649, April 25, 2007.
7. Wang, et al. Cytochrome P-450 Epoxygenase Promotes Human Cancer Metastasis *Cancer Res.* 67, 6665-6667, July 15, 2007.
8. Zeldin, et al. Cytochrome P-450 epoxygenases protect endothelial cells from apoptosis induced by tumor necrosis factor- $\alpha$  via MAPK and PI3K/Akt signaling pathways. *Am J. Physiol Heart Circ Physiol* 293, H142-H151, 2007.
9. Chen et al. Synergistic effect of cytochrome P450 epoxygenase CYP2J2\*7 polymorphism with smoking on the onset of premature myocardial infarction. *Artherosclerosis* 195, 199-206. 2007.
10. Alkayed et al. Soluble epoxide hydrolase gene deletion is protective against experimental cerebral ischemia. *Stroke* 39, 2073-2078, 2008.
11. 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.
12. Alkayed et al. Role of soluble epoxide hydrolase in the sex-specific vascular response to cerebral ischemia. *J. Cerebral Blood Flow & Metabolism* 29, 1475-1481. 2009.
13. Eldrup et al. Structure-based optimization of arylamides as inhibitors of soluble epoxide hydrolase. *J. Med. Chem.* 52, 5880-5895, 2009.
14. Xu, Zeldin, Wang et al. Increased CYP2J3 expression reduces insulin resistance in fructose-treated rats and db/db mice. *Diabetes* 59, 997. 2010.
15. Wang et al. Gene delivery of cytochrome P450 epoxygenase ameliorates monocrotaline-induced pulmonary artery hypertension in rats. *Am. J. Respir. Cell Mol. Biol.* 43, 740-749, 2010.
16. Wang et al. Overexpression of cytochrome P450 epoxygenases prevents development of hypertension in spontaneously hypertensive rats by enhancing atrial natriuretic peptide. *J. Pharmaol. Exp. Ther.* 334, 784-794, 2010.
17. Van Winkle et al. Inhibition of soluble epoxide hydrolase preserves cardiomyocytes: Role of STAT3 signaling. *Am. J. Physiol. Heart Circ. Physiol.* 298: H679-H687, 2010.
18. 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.
19. 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.
20. Wang et al. The epoxyeicosatrienoic acid-stimulated phosphorylation of EGF-R involves the activation of metalloproteinases and the release of HB-EGF in cancer cells. *Acta Pharmacol Sin.* 31, 211-218, 2010.

21. Wang, Hung, Lee et al. Genetic variation in the G-50T polymorphism of the cytochrome P450 epoxygenase CYP2J2 gene and the risk of younger onset type 2 diabetes among Chinese population: potential interaction with body mass index and family history. *Exp Clin Endocrinol Diabetes*. 118, 346-352, 2010.
22. Chen, Wang et al. Cytochrome P450 2J2 Is highly expressed in hematologic malignant diseases and promotes tumor cell growth. *J Pharmacol Exp Ther* 336, 344-355, 2011.
23. Cervenka, Hammock, Imig, Kramer et al. Role of cytochrome P-450 metabolites in the regulation of renal function and blood pressure in 2-kidney 1-clip hypertensive rats. *Am. J. Physiol. Regul. Integr. Comp. Physiol.* 300: R1468-R1475. 2011.
24. Xu, Tu, Wang et al. CYP2J3 gene delivery reduces insulin resistance via upregulation of eNos in fructose-treated rats. *Cardiovasc Diabetol* 10, 114, 2011.
25. Chen, Zeldin, Wang et al. Cytochrome P450 epoxygenase CYP2J2 attenuates nephropathy in streptozotocin-induced diabetic mice. *Prostaglandins Other Lipid Mediat* 96, 63-71, 2011.
26. Sung et al. The shunting of arachidonic acid metabolism to 5-lipoxygenase and cytochrome p450 epoxygenase antagonizes the anti-cancer effect of cyclooxygenase-2 inhibition in head and neck cancer cells. *Cell Oncol* 35, 1-8, 2012.
27. Neckar, Kramer, Imig, Hammock, Cervenka et al. Inhibition of soluble epoxide hydrolase by cis-4-[4-(3-adamantan-1-ylureido)cyclohexyl-oxy]benzoic acid exhibits antihypertensive and cardioprotective actions in transgenic rats with angiotensin II-dependent hypertension. *Clin Sci* 122, 513-525, 2012.
28. Zhao, Tu, Wang et al. Delivery of AAV2-CYP2J2 protects remnant kidney in the 5/6-nephrectomized rat via inhibition of apoptosis and fibrosis. *Human Gene Therapy* 23, 688-699, 2012.
29. Zhao, Cianflone, Zeldin, Wang et al. Epoxyeicosatrienoic acids protect rat hearts against tumor necrosis factor- $\alpha$ -induced injury. *J Lipid Res* 53, 456-66, 2012.
30. Chen, Xu, Wang et al. Genetic disruption of soluble epoxide hydrolase is protective against streptozotocin-induced diabetic nephropathy. *Am J Physiol Endocrinol Metab* 303, E563-75, 2012 .
31. Chen, Chen, Cianflone, Wang et al. Let-7b inhibits human cancer phenotype by targeting cytochrome P450 epoxygenase 2J2. *PLOS ONE* 7, e39197, 2012.
32. Zhang, Xie, Hammock, Zhu et al. Homocysteine upregulates soluble epoxide hydrolase in vascular endothelium in vitro and in vivo. *Circ Res* 110, 808-817, 2012.
33. Li R, Xu X , Chen C, Yu X, Edin ML, Degraff LM, Lee CR, Zeldin DC, Wang DW. Cytochrome P450 2J2 is protective against global cerebral ischemia in transgenic mice. *Prostaglandins Other Lipid Mediat* 99, 68-78, 2012.
34. Cai, Wang et al. CYP2J2 overexpression increases EETs and protects against angiotensin II-induced abdominal aortic aneurysm in mice. *J lipid Res* 54, 1448-1456, 2013.
35. Xu Tu, Wang et al. CYP2J3 gene delivery up-regulated adiponectin expression via reduced endoplasmic reticulum stress in adipocytes. *Endocrinology* 154, 1743-53, 2013.
36. Eid, Maalouf, Eid et al. 20-HETE and EETs in diabetic nephropathy: A novel mechanistic pathway. *PLOS ONE* 8, e70029, 2013.
37. Ma F, Lin F, Chen C, Cheng J, Zeldin DC, Wang Y, Wang DW. Indapamide lowers blood pressure by increasing production of epoxyeicosatrienoic acids in the kidney. *Mol Pharmacol* 84, 286-295, 2013.
38. Wang, Zhang, Du et al. EETs mediate cardioprotection of salvianolic acids through MAPK signaling pathway. *Acta Pharmaceutica Sinica B* 3, 25–31, 2013.
39. Xu, Davis, and Hammock et al. A potent soluble epoxide hydrolase inhibitor, t-AUCB, acts through PPAR $\gamma$  to modulate the function of endothelial progenitor cells from patients with acute myocardial infarction. *International Journal of Cardiology* 167, 1298–1304, 2013.
40. Yang, Peng, Xu et al. The role of 14,15-dihydroxyeicosatrienoic acid levels in inflammation and its relationship to lipoproteins. *Lipids in Health and Disease* 12, 151, 2013.
41. Zhou, Beloiartsev, Bloch et al. Deletion of the Murine Cytochrome P450 Cyp2j Locus by Fused BAC-mediated recombination Identifies a Role for Cyp2j in the Pulmonary Vascular Response to Hypoxia.

PLoS Genet. 9, e1003950, 2013.

42. Shen, Peng, Zhao, Xu A potent soluble epoxide hydrolase inhibitor, *t*-AUCB, modulates cholesterol balance and oxidized low density lipoprotein metabolism in adipocytes *in vitro*. *Biol Chem* 395, 443-451 2014.
43. Wang X, Ni L, Yang L, Duan Q, Chen C, Edin ML, Zeldin DC, Wang DW. [CYP2J2-derived epoxyeicosatrienoic acids suppress endoplasmic reticulum stress in heart failure](#). *PLoS One*. 2013 Oct 25;8(10):e77034.
44. Chen W, Zheng G, Yang S, Ping, W, Fu X, Zhang N, Wang DW, Wang J. CYP2J2 and EETs protect against oxidative stress and apoptosis *in vivo* and *in vitro* following lung ischemia/reperfusion. *Cell Physiol Biochem*, 33, 1663–1680, 2014.
45. Ono E, Dutile S, Kazani S, Wechsler ME, Yang J, Hammock BD, Douda DN, Tabet Y, Khaddaj-Mallat R, Sirois M, Sirois C, Rizcallah E, Rousseau E, Martin R, Sutherland ER, Castro M, N Jarjour N, Israel E, Levy BD and National Heart, Lung, and Blood Institute's Asthma Clinical Research Network. Lipoxin generation is related to soluble epoxide hydrolase activity in severe asthma. *Am J Respir Crit Care Med*. 15, 190, 886-897, 2014.
46. Kim J, Imig JD, Yang J, Hammock BD, Padanilam BJ. Inhibition of soluble epoxide hydrolase prevents renal interstitial fibrosis and inflammation. *Am J Physiol Renal Physiol* 307, F971-F980, 2014.
47. Wei X, Zhang D, Dou X, Niu N, Huang W, Bai J, Zhang G. Elevated 14,15-epoxyeicosatrienoic acid by increasing of cytochrome P450 2C8, 2C9 and 2J2 and decreasing of soluble epoxide hydrolase associated with aggressiveness of human breast cancer. *BMC Cancer* 14, 841, 2014.
48. Li R, Xu X, Chen C, Wang Y, Gruzdev A, Zeldin DC, Wang DW. [CYP2J2 attenuates metabolic dysfunction in diabetic mice by reducing hepatic inflammation via the PPAR \$\gamma\$](#) . *Am J Physiol Endocrinol Metab*. 308, E270-E282, 2015
49. He Z, Zhang X, Chen C, Wen Z, Hoopes SL, Zeldin DC, Wang DW. [Cardiomyocyte-specific expression of CYP2J2 prevents development of cardiac remodelling induced by angiotensin II](#). *Cardiovasc Res* 105, 304-317, 2015.
50. Tain YL, Huang LT, Chan, JYH, Lee CT. Transcriptome Analysis in rat kidneys: importance of genes involved in programmed hypertension *Int J Mol Sci* 16, 4744-4758, 2015.
51. Chen G, Xu R, Zhang S, Wang Y, Wang P, Edin ML, Zeldin DC, Wang DW. [CYP2J2 overexpression attenuates nonalcoholic fatty liver disease induced by high-fat diet in mice](#). *Am J Physiol Endocrinol Metab*. 308, E97-E110, 2015.
52. Dai M, Wu L, He Z, Zhang S, Chen C, Xu X, Wang P, Gruzdev A, Zeldin DC, Wang DW. [Epoxyeicosatrienoic Acids Regulate Macrophage Polarization and Prevent LPS-Induced Cardiac Dysfunction](#). *J Cell Physiol*. 2015 Jan 28. doi: 10.1002/jcp.24939. [Epub ahead of print]