

## Book Chapters

1. Shen RF, **Baek SJ**, Lee KD, Zhang L, and Fleischer T. (1995) Genomic organization and regulation of the human thromboxane synthase gene. *Advances in Prostaglandin, Thromboxane and Leukotrien Research*. vol 23. Raven Press. pp137-139.
2. Whelan J, McEntee MM, and **Baek SJ** (2005) Dietary polyunsaturated fatty acids, eicosanoids, and intestinal tumorigenesis. *Carcinogenic & Anticarcinogenic Food Components*. CRC Press. pp 157-176.
3. **Baek SJ**, and Lee SH (2008) Anti-cancer property of epicatechin gallate in colon cancer cells. *Encyclopaedic Handbook of Beer in Health and Disease Prevention*. Edited by Victor R. Preedy. Elsevier. pp 871-878.
4. **Baek SJ**, and Sukthankar M (2009) Green tea catechins in colorectal cancer. *Handbook of Green tea and human health*. Edited by H. McKinley and M. Jamieson. Nova Science Publishers. pp 325-346.
5. **Baek SJ** and Whitlock NC (2011) Molecular Targets of Resveratrol in Carcinogenesis. *Evidence-Based Anticancer Herbal Medicine*. Edited by WCS Cho. Springer Science; pp 319-347.

## Invited Review Articles

6. Yoon JH, and **Baek SJ** (2005) Molecular Targets of Dietary Polyphenols with anti-inflammatory Properties. *Yonsei Med J*. Oct. 46(5):585-596. PMID: PMC2562783
7. **Baek SJ**, and Eling TE (2006) Changes in gene expression contribute to cancer prevention by COX inhibitors. *Prog Lipid Res*. Jan. 45(1):1-16. PMID: 16337272
8. Eling TE, **Baek SJ**, Shim M, and Lee CH. (2006) NSAID activated gene (NAG-1), a modulator of tumorigenesis. *J Biochem Mol Biol*. Nov. 39(6):649-655. PMID: 17129398
9. **Baek SJ**, McEntee MF, and Legendre A. (2009) Chemopreventive compounds and canine cancer. *Vet Pathol*. Review. July 46:576-588. PMID: 19276067.
10. Wang X, **Baek SJ**, and Eling TE (2011) COX inhibitors directly alter gene expression: role in cancer prevention? *Cancer Metastasis Rev*. Dec. 30(3): 641-657. PMID: 22020924.
11. Whitlock NC, and **Baek SJ**. (2012) The anticancer effects of resveratrol: Modulation of transcription factors. *Nutr Cancer*. Apr. 64(4): 493-502. PMID: PMC3349800.
12. Wang X\*, **Baek SJ\***, and Eling TE (2013) The Diverse Roles of Nonsteroidal Anti-inflammatory Drug Activated Gene (NAG-1/GDF15) in Cancer. *Biochem Pharm*. Mar. 85(5):597-606. (\*equally contributed). PMID: PMC3566326

## Full Research Publications

13. Song SI, Kim CH, **Baek SJ** and Choi YD (1991) Molecular cloning and nucleotide sequencing of the cDNA encoding the precursor for soybean trypsin inhibitor (Kunitz type). *Mol Cells* 1:317-324.
14. Song SI, Kim CH, **Baek SJ**, and Choi YD (1993) Nucleotide sequences of DNAs encoding the precursors for soybean (glycine max) trypsin inhibitors (Kunitz type). *Plant Physiology*, 101:1401.
15. Chase M, **Baek SJ**, Purtell D, Schwartz S, and Shen RF (1993) Mapping of the human thromboxane synthase gene (TBXAS1) to chromosome 7q34-q35 by two color fluorescence in situ hybridization. *Genomics*, 16:771-773.

16. Xia Z, Shen RF, **Baek SJ** and Tai HH (1993) Expression of two different forms of cDNA for thromboxane synthase in insect cells and site-directed mutagenesis of a critical cysteine residue. *Biochem. J.* 295:457-461.
17. Shen RF, Zhang L, **Baek SJ**, Tai HH, and Lee KD (1994) The porcine thromboxane synthase cDNA: sequence, mRNA expression and enzyme production in Sf9 insect cells. *Gene*, 140:261-265.
18. Lee KD, **Baek SJ**, and Shen RF (1994) Cloning and characterization of the human thromboxane synthase gene promoter. *Biochem.Biophys.Res.Commun.* 201:379-387.
19. **Baek SJ**, Lee KD and Shen RF (1996) Genomic structure and polymorphism of the human thromboxane synthase-encoding gene. *Gene*. 173:251-256.
20. Lee KD, **Baek SJ** and Shen RF (1996) Multiple factors regulating the expression of human thromboxane synthase gene. *Biochem. J.* 319:783-791.
21. Hsi LC, **Baek SJ**, Eling TE (2000) Lack of cyclooxygenase-2 activity in HT-29 human colorectal carcinoma cells. *Exp Cell Res.* 256(2): 563-70.
22. Kameda H, Risinger JI, Han BB, **Baek SJ**, Barrett JC, Abe T, Takeuchi T, Glasgow WC, Eling TE. (2001) Expression of gab1 lacking the pleckstrin homology domain is associated with neoplastic progression. *Mol Cell Biol.* 21(20): 6895-6905.
23. **Baek SJ**, Kim KS, Nixon J, Wilson L, and Eling TE. (2001) Cyclooxygenase inhibitors regulate the expression of a TGF- $\beta$  superfamily member that has pro-apoptotic and anti-tumorigenic activities. *Mol Pharmacol.* 59(4): 901-908. PMID: 11259636
24. Ikawa H, Kameda H, Kamitani H, **Baek SJ**, Nixon JB, Hsi LC, and Eling TE. (2001) Effects of PPAR activators on cytokine-stimulated cyclooxygenase-2 expression in human colorectal carcinoma cells. *Exp Cell Res.* 267(1): 73-80.
25. **Baek SJ**, Horowitz JM, and Eling TE. (2001) Molecular cloning and characterization of human anti-inflammatory drug-activated gene promoter: Basal transcription is mediated by Sp1 and Sp3. *J Biol Chem.* 276(36): 33384-33392.
26. Kameda H, Risinger JI, Han B-B, **Baek SJ**, Barrett C, Glasgow WC, and Eling TE. (2001) Identification of epidermal growth factor receptor-Grb2-associated binder-1-SHP-2 complex formation and its functional loss during neoplastic cell progression. *Cell Growth Differ.* 12(6): 307-318.
27. Fritsche E, **Baek SJ**, King, LM, Zeldin DC, Eling TE, and Bell DA (2001) Functional characterization of COX-2 polymorphisms. *J Pharmacol Exp Ther.* 299(2): 468-76.
28. **Baek SJ**, Wilson L, and Eling TE (2002). Resveratrol enhances the expression of non-steroidal anti-inflammatory drug-activated gene (NAG-1) by increasing the expression of p53. *Carcinogenesis*, Mar, 23(3): 425-434. PMID: 11895857
29. Bottone, FG, **Baek SJ**, Nixon, JB, and Eling, TE (2002). Diallyl Disulfide (DADS) Induces the Antitumorigenic NSAID-Activated Gene (NAG-1) by a p53-Dependent Mechanism in Human Colorectal HCT 116 Cells. *J Nutr.* Apr, 132(4):773-778.
30. Kim, KS, **Baek SJ**, Flake, G, Loftin CD, Calvo BF, and Eling, TE (2002). Expression and regulation of nonsteroidal anti-inflammatory drug-activated gene (NAG-1) in human and mouse tissue. *Gastroenterology.* May, 122(5):1388-1398.
31. **Baek SJ**, Wilson L, Lee, CH, and Eling TE. (2002) Dual Function of Nonsteroidal Anti-Inflammatory Drugs (NSAIDs): Inhibition of Cyclooxygenase and Induction of NSAID-Activated Gene. *J Pharmacol Exp Ther.* June, 301(3):1126-1131.
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33. **Baek SJ**, Wilson L, Hsi L, and Eling TE (2003). Troglitazone, a Peroxisome Proliferator-activated Receptor gamma (PPARgamma) Ligand, Selectively Induces the Early Growth

- Response-1 Gene Independently of PPARgamma. A NOVEL MECHANISM FOR ITS ANTI-TUMORIGENIC ACTIVITY. *J Biol Chem*. Feb, 278(8):5845-5853. PMID: 12475986
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  37. Kim KS, Shin JH, **Baek SJ**, Yoon JH. (2003) Expression of Non-steroidal Anti-inflammatory Drug-activated Gene-1 in Human Nasal Mucosa and Cultured Nasal Epithelial Cells: A Preliminary Investigation. *Acta Oto-Laryngol*, Oct 123(7):857-861
  38. **Baek SJ**, Kim JS, Nixon JB, DiAugustine RP, and Eling TE. (2004) Expression of NAG-1, a TGF- $\beta$  superfamily member, by troglitazone requires the early growth response gene Egr-1. *J Biol Chem*. Feb, 279(8):6883-6892. PMID: 14662774
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