

## Publications

---

### PEER REVIEWED

Yacobi NR, Phuleria HC, DeMaio L, Liang CH, Peng CA, Sioutas C, **Borok Z, Kim KJ, Crandall ED**: Nanoparticle effects on rat alveolar epithelial cell monolayer barrier properties. *Toxicol in Vitro* 21:1373-1381, 2007.

Minoo P, Hu L, Zhu N, **Borok Z, Bellusci S, Groffen J, Kardassis D, Li C**: SMAD3 prevents binding of NKX2.1 and FOXA1 to the SpB promoter through its MH1 and MH2 domains. *Nucleic Acids Res* 36:179-188, 2008.

Bates SR, Tao JQ, Yu KJ, **Borok Z, Crandall ED, Collins HL, Rothblat GH**: Expression and biological activity of ABCA1 in alveolar epithelial cells. *Am J Resp Cell Mol Biol* 38:283-292, 2008.

Yacobi NR, DeMaio L, Xie J, Hamm-Alvarez SF, **Borok Z, Kim KJ, Crandall ED**: Polystyrene nanoparticle trafficking across alveolar epithelium. *Nanomedicine* 4:139-145, 2008.

Zhou B, Zhong Q, Minoo P, Li C, Ann D, Frenkel B, Morrisey E, **Crandall ED, Borok Z**: Foxp2 inhibits Nkx2.1-mediated transcription of surfactant protein C via interactions with the Nkx2.1 DNA-binding homeodomain. *Am J Resp Cell Mol Biol* 38:750-758, 2008.

Zhou B, Francis TA, Yang H, Tseng W, Zhong Q, Frenkel B, Morrisey EE, Ann DK, Minoo P, **Crandall ED, Borok Z**: GATA-6 mediates transcriptional activation of aquaporin-5 through interactions with Sp1. *Am J Physiol Cell Physiol*, in press, 2008.

Jo JA, Blasi A, Valladares E, **Juarez R, Baydur A, Tsang L, Khoo MCK**: A nonlinear model of cardiac autonomic control on obstructive sleep apnea syndrome. *Ann Biomed Engineering* 35:1425-1443, 2007.

Bahhady RF, **Kim KJ, Borok Z, Crandall ED, Shen WC**: Enhancement of insulin transport across alveolar epithelial cell monolayers by protein factor(s) isolated from bronchoalveolar lavage fluid of rat. *Pharm Res* 24:1713-1719, 2007.

Zhou B, Ann DK, Li K, **Kim KJ, Lin H, Minoo P, Crandall ED, Borok Z**: Hypertonic induction of aquaporin 5: novel role of hypoxia inducible factor-1alpha. *Am J Physiol Cell Physiol* 292:C1280-C1290, 2007.

Bahhady RF, **Kim KJ, Borok Z, Crandall ED, Shen WC**: Characterization of protein factor(s) in rat bronchoalveolar lavage fluid that enhance insulin transport via transcytosis across primary rat alveolar epithelial cell monolayers. *Europ J Pharm Biopharm* 69:808-816, 2008.

Patel L, Uchiyama T, **Kim KJ, Borok Z, Shen WC, Crandall ED, Lee V**: Molecular and functional expression of multidrug resistance-associated protein-1 in primary cultured rat alveolar epithelial cells. *J Pharm Sci* 97:2340-2349, 2008.

Uchiyama T, Fujita T, Gukasyan HJ, **Kim KJ, Borok Z, Crandall ED, Lee VHL**: Functional characterization and cloning of amino acid transporter B0,+ (ATB0,+) in primary cultured rat pneumocytes. *J Cellular Physiol* 214:645-654, 2008.

Chen JL, **Kim KJ, Lin A, Ann DK**: Novel roles for protein kinase C $\delta$ -dependent signaling pathways in acute hypoxic stress-induced autophagy. *J Biol Chem*, submitted, 2008.

**Liebler JM, Lutzko C, Banfalvi A, Senadheera D, Aghamohammadi N, Crandall ED, Borok Z**: Retention of human bone marrow-derived stem cells in murine lungs following bleomycin-induced lung injury. *Am J Physiol*, in press, 2008.

Zhou B, Ann DK, Flodby P, Minoo P, **Liebler JM, Crandall ED, Borok Z**: Rat aquaporin-5 4.3-kb 5' flanking region differentially regulates expression in salivary gland and lung in vivo. *Am J Physiol*, in press, 2008.

**Qiao R, Yan W, Clavijo C, Mehrian-Shai R, Zhong Q, Kim KJ, Ann D, Crandall ED, Borok Z**: Effects of KGF on alveolar epithelial cell transdifferentiation are mediated by JNK signaling. *Am J Respir Cell Mol Biol* 38:239-246, 2008.

**Shigemitsu H, Yarbrough C, Prakash S, Sharma OP**: 65-year-old woman with subcutaneous nodule and hilar adenopathy. *Chest*, in press, 2008.

**Shigemitsu H, Arshakyan A, Azen SP, Sharma OP**: The role of expert opinion in management of sarcoidosis. *Resp Med*, submitted, 2008.

---

---

## **BOOKS AND BOOK CHAPTERS**

**Baydur A:** Respiratory dysfunction. In: Medical, Psychosocial, and Vocational Aspects of Disability (3rd edition; Brodwin MG, Tellez FA, Brodwin SK [editors]). Eliott and Fitzpatrick, Athens, GA, in press, 2008.

Ehrhardt C, Forbes B, **Kim KJ:** In vitro models of the tracheo-bronchial epithelium. In: Drug Absorption Studies: In Situ, In Vitro and In Silico Models (Ehrhardt C, **Kim KJ** [editors]). Springer, New York, NY, pp235-257, 2008.

Gukasyan HJ, **Kim KJ**, Lee VHL: The conjunctival barrier in ocular drug delivery. In: Drug Absorption Studies: In Situ, In Vitro and in Silico Models (Ehrhardt C, **Kim KJ** [editors]). Springer, New York, NY, pp307-320, 2008.

Ehrhardt C, Laue M, **Kim KJ:** In vitro models of the alveolar epithelial barrier. In: Drug Absorption Studies: In Situ, In Vitro and In Silico