Regulation of metabolizing enzymes and transporters for drugs and bile salts in human and rat intestine and liver

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List of publications

From this Thesis

- **Khan AA,** Chow EC, van Loenen-Weemaes AM, Porte RJ, Pang KS and Groothuis GM (2009). Comparison of effects of VDR versus PXR, FXR and GR ligands on the regulation of CYP3A isozymes in rat and human intestine and liver. *European Journal of Pharmaceutical Sciences* 2009*;* **37**:115-125.

- **Khan AA,** Chow ECY, Porte RJ, Pang KS and Groothuis GMM (2009). Expression and regulation of the bile acid transporter, OSTα-OSTβ in rat and human intestine and liver *Biopharmaceutics and Drug Disposition* 2009; **30**:241-258.

- **Khan AA,** Chow ECY, Porte RJ, Pang KS and Groothuis GMM. The role of lithocholic acid (LCA) in the regulation of bile acid detoxification and biosynthesis proteins in rat and human intestine and liver *(submitted).*

- **Khan AA,** Chow ECY, Porte RJ, Pang KS and Groothuis GMM. 1α,25-dihydroxy vitamin D_3 mediates down regulation of HNF4α, CYP7A1 and NTCP in human but not rat liver slices *(submitted).*

- **Khan AA,** Chow ECY, Porte RJ, Pang KS and Groothuis GMM. The regulation of ASBT (SLC10A2) by VDR, FXR and GR ligands in rat and human intestine and liver *(under preparation).*

- **Khan AA,** Bieuwke S. Dragt and Groothuis GMM. Regulation of Vitamin D Receptor (VDR) in rat and human intestine and liver – Consequences for CYP3A expression *(submitted).*

Other publications

- Chow ECY, Shanjun L, Maeng HJ, **Khan AA**, Groothuis GMM, and Pang KS (2009). 1α,25-Dihydroxyvitamin D3 Triggered Vitamin D Receptor and Farnesoid X Receptor-like Effects in Rat Intestine and Liver *In Vivo Biopharmaceutics and Drug Disposition (In Press).*

- Chow ECY, Huadong S, **Khan AA**, Groothuis GMM, and Pang KS (2009). Effects of 1α,25-Dihydroxyvitamin D_3 on Transporters and Enzymes in the Rat Intestine and Kidney *Biopharmaceutics and Drug Disposition (In Press).*

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- Shakeel NB, Venkateshan V, Parveen, Capoor AK, Habeeb MA, Khan AA, **Khan AA**, Muzeeb S, Mamidi NV and Habibullah CM (2005) Effect of ultraviolet B (302 nm) irradiation on viability, metabolic and detoxification functions of goat hepatocytes--in vitro study. *Mol Cell Biochem* **277:**49-53.

Abstracts

- **Khan AA,** Pang KS, Elferink MGL and Groothuis GMM: Precision cut intestinal slices as model to study the role of nuclear receptors in regulation of drug metabolizing enzymes and transporters, **EUFEPS–2006, Copenhagen, Denmark**

- **Khan AA,** Pang KS, Elferink MGL and Groothuis GMM: The role of Vitamin D Receptor (VDR) in regulation of enzymes and transporters involved in bile acid disposition in the intestine**, PSWC – 2007, Amsterdam, The Netherlands.**

- **Khan AA,** Chow ECY Pang KS and Groothuis GMM: The role of Farnesoid X receptor (FXR), Vitamin D Receptor (VDR) and Glucocorticoid receptor (GR) in regulation of bile acid basolateral transporters - Ost α / β and MRP3 in rat intestine and liver, **FIGON – 2007, Lunteren, The Netherlands.**

- **Khan AA,** Chow ECY Pang KS and Groothuis GMM: Expression and regulation of organic solute transporters (Ostα/Ostβ) in rat intestine and liver, **ISSX – 2008, Vienna, Austria**

- Chow ECY, Sun H, **Khan AA,** Groothuis GMM and Pang KS: Effects Of 1α,25-Dihydroxyvitamin D_3 (Calcitriol) And The Vitamin D Receptor (VDR) On Rat Enzymes, Transporters And Nuclear Receptors, **AAPS-2008, Altanta, GA, USA.**

- **Khan AA,** Dragt BS and Groothuis GMM: Regulation of VDR expression in ileum and liver–Consequences for bile acid detoxification**, ISSX – 2009, Lisbon, Portugal.**

- Chow ECY, Maeng HJ, **Khan AA,** Groothuis GMM and Pang KS: 1α,25-Dihydroxyvitamin D3 Triggered Vitamin D Receptor and Farnesoid X Receptor-like Effects in Rat Intestine, Liver, and Kidney *In Vivo,* **AAPS 2009, Los Angeles, CA – USA.**