

## Publications utilizing QuantiGene technology

### 2010

Aleksunes, L. M., *et al.* Nuclear factor erythroid 2-related factor 2 deletion impairs glucose tolerance and exacerbates hyperglycemia in type 1 diabetic mice. *The Journal of Pharmacology and Experimental Therapeutics* **333**(1):140-51 (2010).

Chen, Z., L. Zhu, and K. J. Wilkinson. Validation of the biotic ligand model in metal mixtures: bioaccumulation of lead and copper. *Environmental Science & Technology* **44**(9):3580-6 (2010).

Cui, J. Y., *et al.* Genetic and Epigenetic Regulation and Expression Signatures of Glutathione S-Transferases in Developing Mouse Liver. *Toxicological Sciences* **116**(1):32-43 (2010).

Dai, X. and B. T. Zhu. Indoleamine 2,3-dioxygenase tissue distribution and cellular localization in mice: implications for its biological functions. *Journal of Histochemistry and Cytochemistry* **58**(1):17-28 (2010).

Ehsani, A., *et al.* Rational design of micro-RNA-like bifunctional siRNAs targeting HIV and the HIV coreceptor CCR5. *Molecular Therapeutics* **18**(4):796-802 (2010).

Ibarra, J. A., *et al.* Induction of Salmonella pathogenicity island 1 under different growth conditions can affect Salmonella-host cell interactions in vitro. *Microbiology* **156**(Pt 4):1120-33 (2010).

Lachaud, A. A., *et al.* Werner's syndrome helicase participates in transcription of phenobarbital-inducible CYP2B genes in rat and mouse liver. *Biochemistry and Pharmacology* **79**(3):463-70 (2010).

Love, K. T., *et al.* Lipid-like materials for low-dose, in vivo gene silencing. *Proceedings of the National Academy of Sciences of the United States of America* **107**(21) (2010).

Monovich, L., *et al.* A novel kinase inhibitor establishes a predominant role for protein kinase D as a cardiac class IIa histone deacetylase kinase. *FEBS Letters* **584**(3):631-37 (2010).

Murray, L. A., *et al.* Serum amyloid P therapeutically attenuates murine bleomycin-induced pulmonary fibrosis via its effects on macrophages. *PLoS One* **5**(3):e9683 (2010).

Salomon, W., *et al.* Modified dsRNAs that are not processed by Dicer maintain potency and are incorporated into the RISC. *Nucleic Acids Research* **38**(11):3771-779 (2010).

Semple, S. C., *et al.* Rational design of cationic lipids for siRNA delivery. *Nature Biotechnology* **28**:172-76 (2010).

Wang, L., *et al.* In vitro assessment of metabolic drug-drug interaction potential of apixaban through cytochrome P450 phenotyping, inhibition, and induction studies. *Drug Metabolism and Disposition* **38**(3):448-58 (2010).

### 2009

Beetz, N., *et al.* Phosducin influences sympathetic activity and prevents stress-induced hypertension in humans and mice. *The Journal of Clinical Investigation* **119**(12):3597-612 (2009).

Berrodin, T. J., *et al.* Novel progesterone receptor modulators with gene selective and context-dependent partial agonism. *Biochemistry and Pharmacology* **77**(2):204-15 (2009).

- Buckley, D. B. and C. D. Klaassen. Induction of mouse UDP-glucuronosyltransferase mRNA expression in liver and intestine by activators of aryl-hydrocarbon receptor, constitutive androstane receptor, pregnane X receptor, peroxisome proliferator-activated receptor alpha, and nuclear factor erythroid 2 related factor 2. *Drug Metabolism and Disposition* **37**(4):847-56 (2009).
- Buckley, D. B. and C. D. Klaassen. Mechanism of gender-divergent UDP-glucuronosyltransferase mRNA expression in mouse liver and kidney. *Drug Metabolism and Disposition* **37**(4):834-40 (2009).
- Campion, S. N., *et al.* Effect of allyl alcohol on hepatic transporter expression: Zonal patterns of expression and role of Kupffer cell function. *Toxicology and Applied Pharmacology* **236**(1):49-58 (2009).
- Chapuis, J., *et al.* Transcriptomic and genetic studies identify IL-33 as a candidate gene for Alzheimer's disease. *Molecular Psychiatry* **14**(11):1004-16 (2009).
- Cheng, X. and C. D. Klaassen. Tissue distribution, ontogeny, and hormonal regulation of xenobiotic transporters in mouse kidneys. *Drug Metabolism and Disposition* **37**(11):2178-85 (2009).
- Csanaky, I. L., *et al.* Role of hepatic transporters in prevention of bile acid toxicity after partial hepatectomy in mice. *American Journal of Physiology - Gastrointestinal and Liver Physiology* **297**(3):G419-33 (2009).
- Cui, Y. J., *et al.* Compensatory induction of liver efflux transporters in response to ANIT-induced liver injury is impaired in FXR-null mice. *Toxicological Sciences* **110**(1):47-60 (2009).
- Cui, Y. J., *et al.* Tissue distribution, gender-divergent expression, ontogeny, and chemical induction of multidrug resistance transporter genes (Mdr1a, Mdr1b, Mdr2) in mice. *Drug Metabolism and Disposition* **37**(1):203-10 (2009).
- Cui, Y. J., *et al.* Ontogenic expression of hepatic Ahr mRNA is associated with histone H3K4 di-methylation during mouse liver development. *Toxicology Letters* **189**(3):184-90 (2009).
- Dai, X. and B. T. Zhu. Indoleamine 2,3-Dioxygenase Tissue Distribution and Cellular Localization in Mice: Implications for Its Biological Functions. *Journal of Histochemistry and Cytochemistry* **58**(1):17-28 (2009).
- Ellison, D. W., *et al.* Limited transcriptional responses of *Rickettsia rickettsii* exposed to environmental stimuli. *PLoS One* **4**(5):e5612 (2009).
- Fortin, M., *et al.* A multi-target antisense approach against PDE4 and PDE7 reduces smoke-induced lung inflammation in mice. *Respiratory Research* **10**(1):39 (2009).
- Grunt, T. W., *et al.* Interaction between fatty acid synthase- and ErbB-systems in ovarian cancer cells. *Biochemical and Biophysical Research Communications* **385**(3):454-9 (2009).
- Haag, J., *et al.* Efficient non-viral transfection of primary human adult chondrocytes in a high-throughput format. *Osteoarthritis and Cartilage* **17**(6):813-17 (2009).
- Judge, A. D., *et al.* Confirming the RNAi-mediated mechanism of action of siRNA-based cancer therapeutics in mice. *The Journal of Clinical Investigation* **119**(3):661-73 (2009).
- Kanashiro-Takeuchi, R. M., *et al.* Sex-Specific Impact of Aldosterone Receptor Antagonism on Ventricular Remodeling and Gene Expression after Myocardial Infarction. *Clinical and Translational Science* **2**(2):134-42 (2009).
- Kwara, A., *et al.* Interindividual Variability in Pharmacokinetics of Generic Nucleoside Reverse Transcriptase Inhibitors in TB/HIV-Coinfected Ghanaian Patients: UGT2B7\*1c Is Associated With Faster Zidovudine Clearance and Glucuronidation. *The Journal of Clinical Pharmacology* **49**(9):1079-90 (2009).

- Lu, B., *et al.* Detection of TMPRSS2-ERG fusion gene expression in prostate cancer specimens by a novel assay using branched DNA. *Urology* **74**(5):1156-62 (2009).
- Mahmoudi, S., *et al.* Wrap53, a natural p53 antisense transcript required for p53 induction upon DNA damage. *Molecular Cell* **33**(4):462-71 (2009).
- Mane, S. P., *et al.* Transcriptome sequencing of the Microarray Quality Control (MAQC) RNA reference samples using next generation sequencing. *BMC Genomics* **10**(1):264 (2009).
- Monovich, L., *et al.* A novel kinase inhibitor establishes a predominant role for protein kinase D as a cardiac class IIa histone deacetylase kinase. *FEBS Letters* **584**(3):631-7 (2009).
- Passioura, T., *et al.* Interfering ribonucleic acids that suppress expression of multiple unrelated genes. *BMC Biotechnology* **9**(1):57 (2009).
- Reisman, S. A., L. M. Aleksunes, and C. D. Klaassen. Oleanolic acid activates Nrf2 and protects from acetaminophen hepatotoxicity via Nrf2-dependent and Nrf2-independent processes. *Biochemical Pharmacology* **77**(7):1273-82 (2009).
- Reisman, S. A., *et al.* CDDO-Im protects from acetaminophen hepatotoxicity through induction of Nrf2-dependent genes. *Toxicology and Applied Pharmacology* **236**(1):109-14 (2009).
- Reisman, S. A., *et al.* Increased Nrf2 activation in livers from Keap1-knockdown mice increases expression of cytoprotective genes that detoxify electrophiles more than those that detoxify reactive oxygen species. *Toxicological Sciences* **108**(1):35-47 (2009).
- Shinonaga, H., *et al.* Pochonins K-P: new radicicol analogues from *Pochonia chlamydosporia* var. *chlamydosporia* and their WNT-5A expression inhibitory activities. *Tetrahedron* **65**:3446-3453 (2009).
- Shinonaga, H., *et al.* Synthesis and structure-activity relationships of radicicol derivatives and WNT-5A expression inhibitory activity. *Bioorganic & Medicinal Chemistry* **17**(13):4622-35 (2009).
- Shinonaga, H., A. I. Yoji Kawamura, Mari Aoki, Noriyoshi Sakai, and A. K. Natsuko Fujimoto. The search for a hair-growth stimulant: new radicicol analogues as WNT-5A expression inhibitors from *Pochonia chlamydosporia* var. *chlamydosporia*. *Tetrahedron Letters* **50**(1):108-10 (2009).
- Surguladze, D., *et al.* Tumor necrosis factor-alpha and interleukin-1 antagonists alleviate inflammatory skin changes associated with epidermal growth factor receptor antibody therapy in mice. *Cancer Research* **69**(14):5643-7 (2009).
- Tanaka, Y., *et al.* ANIT-induced intrahepatic cholestasis alters hepatobiliary transporter expression via Nrf2-dependent and independent signaling. *Toxicological Sciences* **108**(2):247-57 (2009).
- Vickers, A. E. Characterization of hepatic mitochondrial injury induced by fatty acid oxidation inhibitors. *Toxicologic Pathology* **37**(1):78-88 (2009).
- Zhang, Y. K., R. L. Yeager, and C. D. Klaassen. Circadian expression profiles of drug processing genes and transcription factors in mouse liver. *Drug Metabolism and Disposition* **37**(1):106-15 (2009).
- Zhang, Y. W., *et al.* Implication of checkpoint kinase-dependent up-regulation of ribonucleotide reductase R2 in DNA damage response. *The Journal of Biological Chemistry* **284**(27):18085-95 (2009).
- Zhu, J., *et al.* Regulation of apolipoprotein AI (apoAI) processing by Procollagen Cproteinase enhancer (PCPE2) and bone morphogenetic protein-1 (BMP-1). *Journal of Lipid Research* **50**:1330-39 (2009).

**2008**

- Aagaard, L. A., *et al.* Engineering and optimization of the miR-106b cluster for ectopic expression of multiplexed anti-HIV RNAs. *Gene Therapy* **15**(23):1536-49 (2008).
- Akinc, A., *et al.* A combinatorial library of lipid-like materials for delivery of RNAi therapeutics. *Nature Biotechnology* **26**(5):561-9 (2008).
- Aleksunes, L. M., *et al.* Induction of Mrp3 and Mrp4 transporters during acetaminophen hepatotoxicity is dependent on Nrf2. *Toxicology and Applied Pharmacology* **226**(1):74-83 (2008).
- Aleksunes, L. M., *et al.* Renal xenobiotic transporters are differentially expressed in mice following cisplatin treatment. *Toxicology* **250**(2-3):82-8 (2008).
- Aleksunes, L. M., Y. Cui, and C. D. Klaassen. Prominent Expression of Xenobiotic Efflux Transporters in Mouse Extraembryonic Fetal Membranes Compared to Placenta. *Drug Metabolism and Disposition* **36**(9):1960-70 (2008).
- Aleku, M., *et al.* Atu027, a liposomal small interfering RNA formulation targeting protein kinase N3, inhibits cancer progression. *Cancer Research* **68**(23):9788-98 (2008).
- Alnouti, Y. and C. D. Klaassen. Regulation of sulfotransferase enzymes by prototypical microsomal enzyme inducers in mice. *The Journal of Pharmacology and Experimental Therapeutics* **324**(2):612-21 (2008).
- Alnouti, Y. and C. D. Klaassen. Tissue distribution, ontogeny, and regulation of aldehyde dehydrogenase (aldh) enzymes mRNA by prototypical microsomal enzyme inducers in mice. *Toxicological Sciences* **101**(1):51-64 (2008).
- Anderson, E., *et al.* Identifying siRNA-induced off-targets by microarray analysis. *Methods in Molecular Biology* **442**:45-63 (2008).
- Anderson, E. M., *et al.* Experimental validation of the importance of seed complement frequency to siRNA specificity. *RNA* **14**(5):853-61 (2008).
- Arikawa, E., *et al.* Cross-platform comparison of SYBR Green real-time PCR with TaqMan PCR, microarrays and other gene expression measurement technologies evaluated in the MicroArray Quality Control (MAQC) study. *BMC Genomics* **9**:328 (2008).
- Beilke, L. D., *et al.* Minimal Role of Hepatic Transporters in the Hepatoprotection against LCA-Induced Intrahepatic Cholestasis. *Toxicological Sciences* **102**(1):196-204 (2008).
- Calcagno, A. M., *et al.* Single-step doxorubicin-selected cancer cells overexpress the ABCG2 drug transporter through epigenetic changes. *British Journal of Cancer* **98**(9):1515-24 (2008).
- Chae, Y. K., *et al.* Human AQP5 plays a role in the progression of chronic myelogenous leukemia (CML). *PLoS ONE* **3**(7):e2594 (2008).
- Cheng, Q., *et al.* Drug-metabolizing enzyme and transporter expression in a mouse model of diabetes and obesity. *Molecular Pharmaceutics* **5**(1):77-91 (2008).
- Cheng, X. and C. D. Klaassen. Perfluorocarboxylic acids induce cytochrome P450 enzymes in mouse liver through activation of PPAR-alpha and CAR transcription factors. *Toxicological Sciences* **106**(1):29-36 (2008).
- Cheng, X. and C. D. Klaassen. Critical role of PPAR-alpha in perfluorooctanoic acid- and perfluorodecanoic acid-induced downregulation of Oatp uptake transporters in mouse livers. *Toxicological Sciences* **106**(1):37-45 (2008).

Chung, J. Y., *et al.* Factors in tissue handling and processing that impact RNA obtained from formalin-fixed, paraffin-embedded tissue. *Journal of Histochemistry and Cytochemistry* **56**(11): 1033-42 (2008).

Crombez, L., *et al.* A New Potent Secondary Amphipathic Cell-penetrating Peptide for siRNA Delivery Into Mammalian Cells. *Molecular Therapeutics* **17**(1): 95-03 (2008).

Eastham, L. L., C. N. Mills, and R. M. Niles. PPARalpha/gamma Expression and Activity in Mouse and Human Melanocytes and Melanoma Cells. *Pharmacol Research* **25**(6): 1327-33 (2008).

Fisher, C. D., *et al.* Drug metabolizing enzyme induction pathways in experimental non-alcoholic steatohepatitis. *Archives of Toxicology* **82**(12): 959-64 (2008).

Frank-Kamenetsky, M., *et al.* Therapeutic RNAi targeting PCSK9 acutely lowers plasma cholesterol in rodents and LDL cholesterol in nonhuman primates. *Proceedings of the National Academy of Sciences of the United States of America* **105**(33): 11917-20 (2008).

Grueneberg, D. A., *et al.* Kinase requirements in human cells: IV. Differential kinase requirements in cervical and renal human tumor cell lines. *Proceedings of the National Academy of Sciences of the United States of America* **105**(43): 16490-95 (2008).

Gyamfi, M. A., *et al.* Hepatic effects of a methionine-choline-deficient diet in hepatocyte RXRalpha-null mice. *Toxicology and Applied Pharmacology* **234**(2): 166-78 (2008).

Hart, S. N., *et al.* Genetic polymorphisms in cytochrome P450 oxidoreductase influence microsomal P450-catalyzed drug metabolism. *Pharmacogenetics and Genomics* **18**(1): 11-24 (2008).

Halpern, M. D. and B. Dvorak. Does Abnormal Bile Acid Metabolism Contribute to NEC? *Seminars in Perinatology* **32**(2): 114-21 (2008).

Honda, M., *et al.* Specific knockdown of m-calpain blocks myogenesis with cDNA deduced from the corresponding RNAi. *American Journal of Physiology Cell Physiology* **294**: C957-65 (2008).

Hubbard, K., *et al.* Knockdown of TFIIS by RNA silencing inhibits cancer cell proliferation and induces apoptosis. *BMC Cancer* **8**: 133 (2008).

Jonson, A. L., *et al.* Gene silencing with siRNA targeting E6/E7 as a therapeutic intervention in a mouse model of cervical cancer. *Gynecologic Oncology* **111**(2): 356-64 (2008).

Knight, T. R., S. Choudhuri, and C. D. Klaassen. Induction of hepatic glutathione S-transferases in male mice by prototypes of various classes of microsomal enzyme inducers. *Toxicological Sciences* **106**(2): 329-38 (2008).

Knudsen, B. S., *et al.* Evaluation of the Branched-Chain DNA Assay for Measurement of RNA in Formalin-Fixed Tissues. *Journal of Molecular Diagnostics* **10**(2): 169-76 (2008).

Lee, A. C., *et al.* Electrochemical Branched-DNA Assay for Polymerase Chain Reaction-Free Detection and Quantification of Oncogenes in Messenger RNA. *Analytical Chemistry* **80**(24): 9402-10 (2008).

Lickteig, A. J., *et al.* Tissue distribution, ontogeny and induction of the transporters Multidrug and toxin extrusion (MATE) 1 and MATE2 mRNA expression levels in mice. *Life Sciences* **83**(1-2): 59-64 (2008).

Lorenzi, P. L., *et al.* Asparagine synthetase is a predictive biomarker of Lasparaginase activity in ovarian cancer cell lines. *Molecular Cancer Therapeutics* **7**(10): 3123-28 (2008).

Lu, H. and C. Klaassen. Gender differences in mRNA expression of ATP-binding cassette efflux and bile acid transporters in kidney, liver, and intestine of 5/6 nephrectomized rats. *Drug Metabolism and Disposition* **36**(1): 16-23 (2008).

Lu, H., *et al.* Characterization of Organic Anion Transporting Polypeptide 1b2-null Mice: Essential Role in Hepatic Uptake/Toxicity of Phalloidin and Microcystin-LR. *Toxicological Sciences* **103**(1): 35-45 (2008).

Maher, J. M., *et al.* Nrf2- and PPAR alpha-mediated regulation of hepatic Mrp transporters after exposure to perfluorooctanoic acid and perfluorodecanoic acid. *Toxicological Sciences* **106**(2): 319-28 (2008).

Merrell, M. D., *et al.* The Nrf2 activator oltipraz also activates the constitutive androstane receptor. *Drug Metabolism and Disposition* **36**(8): 1716-21 (2008).

Migliaccio, C. T., *et al.* The IL-4Ralpha pathway in macrophages and its potential role in silica-induced pulmonary fibrosis. *Journal of Leukocyte Biology* **83**(3): 630-9 (2008).

Moore, M., *et al.* Measurement of neutralising antibodies to type I interferons by gene expression assays specific for type 1 interferon-inducible 6-16 mRNA. *Journal of Pharmaceutical and Biomedical Analysis*, **49**(2): 534-9 (2008).

Nair, A., *et al.* A rapid and efficient branched DNA hybridization assay to titer lentiviral vectors. *Journal of Virological Methods* **153**(2): 269-72 (2008).

Querbes, W., *et al.* Direct CNS Delivery of siRNA Mediates Robust Silencing in Oligodendrocytes. *Oligonucleotides* **19**(1): 23-9 (2008).

Robbins, M., *et al.* Misinterpreting the therapeutic effects of siRNA caused by immune stimulation. *Human Gene Therapy* **19**(10): 991-9 (2008).

Ryan, M. C., *et al.* SpliceCenter: a suite of web-based bioinformatic applications for evaluating the impact of alternative splicing on RT-PCR, RNAi, microarray, and peptide-based studies. *BMC Bioinformatics* **9**: 313 (2008).

Sano, M., *et al.* Expression of Long Anti-HIV-1 Hairpin RNAs for the Generation of Multiple siRNAs: Advantages and Limitations. *Molecular Therapeutics* **16**(1): 170-7 (2008).

Shou, M., *et al.* Modeling, prediction, and in vitro in vivo correlation of CYP3A4 induction. *Drug Metabolism and Disposition* **36**(11): 2355-70 (2008).

Simpson, K. J., *et al.* Identification of genes that regulate epithelial cell migration using an siRNA screening approach. *Nature Cell Biology* **10**: 1027-38 (2008).

Tanaka, Y., *et al.* Nf-E2-Related Factor 2 (Nrf2) Inhibits Lipid Accumulation and Oxidative Stress in Mice Fed a High-Fat Diet. *The Journal of pharmacology and experimental therapeutics* **325**(2): 655-64 (2008).

Tanaka, Y., *et al.* Coordinated induction of Nrf2 target genes protects against iron nitrilotriacetate (FeNTA)-induced nephrotoxicity. *Toxicology and Applied Pharmacology* **231**(3): 364-73 (2008).

Tanaka, Y., *et al.* Ischemia-reperfusion of rat livers decreases liver and increases kidney multidrug resistance associated protein 2 (Mrp2). *Toxicological Sciences* **101**(1): 171-8 (2008).

Unwalla, H. J., *et al.* Use of a U16 snoRNA-containing ribozyme library to identify ribozyme targets in HIV-1. *Molecular Therapeutics* **16**(6): 1113-9 (2008).

Zhang, Y. K., R. L. Yeager, and C. D. Klaassen. Circadian Expression Profiles of Drug Processing Genes and Transcription Factors in Mouse Liver. *Drug Metabolism and Disposition* **37**(1): 106-15 (2008).

Zhou, Y., *et al.* Novel HCV NS5B polymerase inhibitors derived from 4-(1',1'-dioxo-1',4'-dihydro-1'lambdab6-benzo[1',2',4']thiadiazin-3'-yl)-5- hydroxy-2H-pyridazin-3-ones. Part 1: exploration of 7'-substitution of benzothiadiazine. *Bioorganic & Medicinal Chemistry Letters* **18**(4):1413-8 (2008).

## 2007

Aleksunes, L. M., *et al.* Influence of acetaminophen vehicle on regulation of transporter gene expression during hepatotoxicity. *Journal of Toxicology and Environmental Health* **70**(21):1870-2 (2007).

Barnes, S. N., *et al.* Induction of hepatobiliary efflux transporters in acetaminophen-induced acute liver failure cases. *Drug Metabolism and Disposition* **35**(10):1963-9 (2007).

Buckley, D. B. and C. D. Klaassen. Tissue- and gender-specific mRNA expression of UDP-glucuronosyltransferases (UGTs) in mice. *Drug Metabolism and Disposition* **35**(1):121-7 (2007).

Chen, C., *et al.* Activation of cAMP-dependent signaling pathway induces mouse organic anion transporting polypeptide 2 expression. *Molecular Pathology* **71**(4):1159-64 (2007).

Cheshenko, K., *et al.* Expression of Zebra Fish Aromatase cyp19a and cyp19b Genes in Response to the Ligands of Estrogen Receptor and Aryl Hydrocarbon Receptor. *Toxicological Sciences* **96**(2):255-67(2007).

Coates, S. S., *et al.* Beryllium induces premature senescence in human fibroblasts. *The Journal of Pharmacology and Experimental Therapeutics* **322**(1):70-9 (2007).

Dotzlar, J., *et al.* Derivation and characterization of monoclonal antibodies against human folypolyglutamate synthetase. *Hybridoma (Larchmt)* **26**(3):155-61 (2007).

Fisher, C. D., *et al.* Induction of drug-metabolizing enzymes by garlic and allyl sulfide compounds via activation of constitutive androstane receptor and nuclear factor E2-related factor 2. *Drug Metabolism and Disposition* **35**(6):995-1000 (2007).

Hernandez, S., B. Chavez Munguia, and L. Gonzalez-Mariscal. ZO-2 silencing in epithelial cells perturbs the gate and fence function of tight junctions and leads to an atypical monolayer architecture. *Experimental Cell Research* **313**(8):1533-47 (2007).

John, M., *et al.* Effective RNAi-mediated gene silencing without interruption of the endogenous microRNA pathway. *Nature* **449**(7163):745-7 (2007).

Knight, T. R., S. Choudhuri, and C. D. Klaassen. Constitutive mRNA expression of various glutathione s-transferase isoforms in different tissues of mice. *Toxicological Sciences* **100**(2):513-24 (2007).

Lantz, R. C., *et al.* The effect of extracts from ginger rhizome on inflammatory mediator production. *Phytomedicine* **14**(2-3):123-8 (2007).

Lickteig, A. J., *et al.* Genes of the antioxidant response undergo upregulation in a rodent model of nonalcoholic steatohepatitis. *Journal of Biochemical and Molecular Toxicology* **21**(4):216-20 (2007).

Lickteig, A. J., *et al.* Efflux transporter expression and acetaminophen metabolite excretion are altered in rodent models of nonalcoholic fatty liver disease. *Drug Metabolism and Disposition* **35**(10):1970-8 (2007).

Lickteig, A. J., *et al.* Differential regulation of hepatic transporters in the absence of tumor necrosis factor-alpha, interleukin-1beta, interleukin-6, and nuclear factorkappaB in two models of cholestasis. *Drug Metabolism and Disposition* **35**(3):402-9 (2007).

Lin, X., *et al.* 'Seed' analysis of off-target siRNAs reveals an essential role of Mcl-1 in resistance to the small-molecule Bcl-2/Bcl-XL inhibitor ABT-737. *Oncogene* **26**(27):3972-9 (2007).

- Martin, S. E., *et al.* Multiplexing siRNAs to compress RNAi-based screen size in human cells. *Nucleic Acids Research*, **35**(8):e57 (2007).
- Miao, Z., *et al.* CXCR7 (RDC1) promotes breast and lung tumor growth in vivo and is expressed on tumor-associated vasculature. *Proceedings of the National Academy of Sciences of the United States of America* **104**(40):15735-40 (2007).
- Miao, Z.H., *et al.* Nonclassic functions of human topoisomerase I: genome-wide and pharmacologic analyses. *Cancer Research* **67**(18):8752-61 (2007).
- Pacyniak, E. K., *et al.* The Flame Retardants, Polybrominated Diphenyl Ethers (PBDE), are Pregnane X Receptor (PXR) Activators. *Toxicological Sciences* **97**(1):94-02 (2007).
- Petrick, J. S. and C. D. Klaassen. Importance of hepatic induction of constitutive androstane receptor and other transcription factors that regulate xenobiotic metabolism and transport. *Drug Metabolism and Disposition* **35**(10):1806-15 (2007).
- Slitt, A. L., *et al.* Regulation of transporter expression in mouse liver, kidney, and intestine during extrahepatic cholestasis. *Biochemica et Biophysica Acta* **1768**(3):637-47 (2007).
- Tanaka, Y., *et al.* Hepatic ischemia-reperfusion induces renal heme oxygenase-1 via NF-E2-related factor 2 in rats and mice. *Molecular Pathology* **71**(3):817-25 (2007).
- Vermeulen, A., *et al.* Double-stranded regions are essential design components of potent inhibitors of RISC function. *RNA* **13**(5):723-30 (2007).
- Wei, X., *et al.* Development and validation of a quantitative cell-based bioassay for comparing the pharmacokinetic profiles of two recombinant erythropoietic proteins in serum. *Journal of Pharmaceutical and Biomedical Analysis* **43**(2):666-76 (2007).
- Wen, X. and T. Walle. Cytochrome P450 1B1, a novel chemopreventive target for benzo[a]pyrene-initiated human esophageal cancer. *Cancer Letters* **246**(1-2):109-14 (2007).
- Wolfrum, C., *et al.* Mechanisms and optimization of in vivo delivery of lipophilic siRNAs. *Nature Biotechnology* **25**(10):1149-57 (2007).
- Yamaguchi, T., *et al.* Identification of JTP-70902, a p15(INK4b)-inductive compound, as a novel MEK1/2 inhibitor. *Cancer Science* **98**(11):1809-16 (2007).
- Yuan, Q., *et al.* Age-dependent expression of the cystatin-related epididymal spermatogenic (Cres) gene in mouse testis and epididymis. *Asian Journal of Andrology* **9**(3):305-11 (2007).
- Zhang, X., N. J. Cherrington, and S. H. Wright. Molecular identification and functional characterization of rabbit MATE1 and MATE2-K. *Am J Physiol Renal Physiol* **293**(1):F360-70 (2007).
- Zhou, Y., *et al.* Phenotypic and structural analyses of hepatitis C virus NS3 protease Arg155 variants: sensitivity to telaprevir (VX-950) and interferon alpha. *The Journal of Biological Chemistry* **282**(31):22619-28 (2007).

## 2006

- Aleksunes, L. M., *et al.* Nuclear factor-E2-related factor 2 expression in liver is critical for induction of NAD(P)H:quinone oxidoreductase 1 during cholestasis. *Cell Stress Chaperones* **11**(4):356-63 (2006).
- Alnouti, Y. and C. D. Klaassen. Tissue distribution and ontogeny of sulfotransferase enzymes in mice. *Toxicological Sciences* **93**(2):242-55 (2006).
- Alnouti, Y., J. S. Petrick, and C. D. Klaassen. Tissue distribution and ontogeny of organic cation transporters in mice. *Drug Metabolism and Disposition* **34**(3):477-82 (2006).

- Canales, R. D., *et al.* Evaluation of DNA microarray results with quantitative gene expression platforms. *Nature Biotechnology* **24**(9):1115-22 (2006).
- Cheng, X. and C. D. Klaassen. Regulation of mRNA expression of xenobiotic transporters by the pregnane x receptor in mouse liver, kidney, and intestine. *Drug Metabolism and Disposition* **34**(11):1863-7 (2006).
- Cheng, X., *et al.* Endocrine regulation of gender-divergent mouse organic aniontransporting polypeptide (Oatp) expression. *Molecular Pathology* **70**(4):1291-7 (2006).
- Conrad, P. G., R. V. Chavli, and R. S. Givens, Caged substrates applied to high content screening: an introduction with an eye to the future. *Methods in Molecular Biology* **356**:253-66 (2006).
- Das, P. C., *et al.* Fipronil induces CYP isoforms and cytotoxicity in human hepatocytes. *Chemico-Biological Interactions* **164**(3):200-14 (2006).
- Deng, D.X., *et al.* Differences in vascular bed disease susceptibility reflect differences in gene expression response to atherogenic stimuli. *Circulation Research* **98**(2):200-8 (2006).
- Dotzlaf, J., *et al.* Derivation and characterization of a monoclonal antibody against human glycinamide ribonucleotide formyltransferase. *Hybridoma (Larchmt)* **25**(3):139-44 (2006).
- Fedorov, Y., *et al.* Off-target effects by siRNA can induce toxic phenotype. *RNA* **12**(7):1188-96 (2006).
- Ferrari, N., *et al.* Characterization of antisense oligonucleotides comprising 2'-deoxy-2'-fluoro-beta-D-arabinonucleic acid (FANA): specificity, potency, and duration of activity. *Annals of the New York Academy of Sciences* **1082**:91-102 (2006).
- Fortin, M., *et al.* Effects of antisense oligodeoxynucleotides targeting CCR3 on the airway response to antigen in rats. *Oligonucleotides* **16**(3):203-12 (2006).
- Groves, C. E., *et al.* Sex differences in the mRNA, protein, and functional expression of organic anion transporter (Oat) 1, Oat3, and organic cation transporter (Oct) 2 in rabbit renal proximal tubules. *The Journal of Pharmacology and Experimental Therapeutics* **316**(2):743-52 (2006).
- Hinfray, N., *et al.* Brain and gonadal aromatase as potential targets of endocrine disrupting chemicals in a model species, the zebrafish (*Danio rerio*). *Environmental Toxicology* **21**(4):332-7 (2006).
- Judge, A. D., *et al.* Design of noninflammatory synthetic siRNA mediating potent gene silencing in vivo. *Molecular Therapeutics*, **13**(3):494-505 (2006).
- Kolachala, V. L., *et al.* Adenosine 2b receptor (A2bR) signals through adenylate cyclase (AC) 6 isoform in the intestinal epithelial cells. *Biochemica et Biophysica Acta* **1760**(7):1102-8.
- Laville, N., *et al.* Modulation of aromatase activity and mRNA by various selected pesticides in the human choriocarcinoma JEG-3 cell line. *Toxicology* **228**(1):98-108 (2006).
- Lin, X., *et al.* 'Seed' analysis of off-target siRNAs reveals an essential role of Mcl-1 in resistance to the small-molecule Bcl-2/Bcl-X(L) inhibitor ABT-737. *Oncogene* (2006).
- Lorenzi, P. L., *et al.* Asparagine synthetase as a causal, predictive biomarker for Lasparaginase activity in ovarian cancer cells. *Molecular Cancer Therapeutics* **5**(11):2613-2623 (2006).
- Lu, H., X. Lei, and C. Klaassen. Gender differences in renal nuclear receptors and aryl hydrocarbon receptor in 5/6 nephrectomized rats. *Kidney International* **70**(11):1920-8 (2006).

- Maher, J. M., *et al.* Alterations in transporter expression in liver, kidney, and duodenum after targeted disruption of the transcription factor HNF1alpha. *Biochemistry and Pharmacology* **72**(4):512-22 (2006).
- Maher, J. M., *et al.* Hormonal regulation of renal multidrug resistance-associated proteins 3 and 4 (Mrp3 and Mrp4) in mice. *Biochemistry and Pharmacology* **71**(10):1470-8 (2006).
- Majercak, J., *et al.* LRRTM3 promotes processing of amyloid-precursor protein by BACE1 and is a positional candidate gene for late-onset Alzheimer's disease. *Proceedings of the National Academy of Sciences of the United States of America* **103**(47):17967-17972 (2006).
- Moffit, J. S., *et al.* Induction of hepatic transporters multidrug resistance-associated proteins (Mrp) 3 and 4 by clofibrate is regulated by peroxisome proliferator-activated receptor alpha. *The Journal of Pharmacology and Experimental Therapeutics* **317**(2):537-45 (2006).
- Nguyen, Q. N., *et al.* Light controllable siRNAs regulate gene suppression and phenotypes in cells. *Biochimica et Biophysica Acta* **1758**(3):394-403 (2006).
- Nishi, J., *et al.* JTP-426467 acts as a selective antagonist for peroxisome proliferator-activated receptor gamma in vitro and in vivo. *Diabetes, Obesity and Metabolism* **8**(5):508-16 (2006).
- Pruimboom-Brees, I., *et al.* A critical role for peroxisomal proliferator-activated receptor-alpha nuclear receptors in the development of cardiomyocyte degeneration and necrosis. *The American Journal of Pathology* **169**(3):750-60 (2006).
- Reynolds, A., *et al.* Induction of the interferon response by siRNA is cell type- and duplex length-dependent. *RNA* **12**(6):988-93 (2006).
- Saetrom, P., *et al.* Conserved microRNA characteristics in mammals. *Oligonucleotides* **16**(2):115-44 (2006).
- Schmidt, R. J., *et al.* A 15-ketosterol is a liver X receptor ligand that suppresses sterol-responsive element binding protein-2 activity. *Journal of Lipid Research* **47**(5):1037-44 (2006).
- Shelby, M. K. and C. D. Klaassen. Induction of rat UDP-glucuronosyltransferases in liver and duodenum by microsomal enzyme inducers that activate various transcriptional pathways. *Drug Metabolism and Disposition* **34**(10):1772-8 (2006).
- Shi, L., *et al.* The MicroArray Quality Control (MAQC) project shows inter- and intraplatform reproducibility of gene expression measurements. *Nature Biotechnology* **24**(9):1151-1161 (2006).
- Slitt, A. L., *et al.* Trans-Stillbene oxide induces expression of genes involved in metabolism and transport in mouse liver via CAR and Nrf2 transcription factors. *Molecular Pathology* **69**(5):1554-63 (2006).
- Slitt, A. L., *et al.* Induction of genes for metabolism and transport by trans-stilbene oxide in livers of Sprague-Dawley and Wistar-Kyoto rats. *Drug Metabolism and Disposition* **34**(7):1190-7 (2006).
- Stanley, L. A., *et al.* PXR and CAR: nuclear receptors which play a pivotal role in drug disposition and chemical toxicity. *Drug Metabolism Reviews*, **38**(3):515-97 (2006).
- Tanaka, Y., *et al.* Kupffer cell-mediated downregulation of hepatic transporter expression in rat hepatic ischemia-reperfusion. *Transplantation* **82**(2):258-66 (2006).
- Tsuji, P. A. and T. Walle. Inhibition of benzo[a]pyrene-activating enzymes and DNA binding in human bronchial epithelial BEAS-2B cells by methoxylated flavonoids. *Carcinogenesis* **27**(8):1579-85 (2006).
- Yang, W., *et al.* Direct quantification of gene expression in homogenates of formalin-fixed, paraffin-embedded tissues. *Biotechniques* **40**(4):481-6 (2006).

Yu, M., J. Yeh, and C. Van Waes. Protein kinase casein kinase 2 mediates inhibitor $\kappa$ B kinase and aberrant nuclear factor- $\kappa$ B activation by serum factor(s) in head and neck squamous carcinoma cells. *Cancer Research* **66**(13):6722-31 (2006).

Yu, Y., *et al.* A novel method for detecting neutralizing antibodies against therapeutic proteins by measuring gene expression. *J Immunol Methods* **316**(1-2):8-17 (2006).

Yudt, M. R., *et al.* Selective and opposing actions of progesterone receptor isoforms in human endometrial stromal cells. *Molecular Cellular Endocrinology* **247**(1-2):116-26.

Zheng, Z., Y. Luo, and G. K. McMaster. Sensitive and quantitative measurement of gene expression directly from a small amount of whole blood. *Clinical Chemistry* **52**(7):1294-302 (2006).

Zimmermann, T. S., *et al.* RNAi-mediated gene silencing in non-human primates. *Nature* **441**(7089):111-4 (2006).

## 2005

Aleksunes, L. M., *et al.* Differential expression of mouse hepatic transporter genes in response to acetaminophen and carbon tetrachloride. *Toxicological Sciences* **83**(1):44-52 (2005).

Alikhani, M., Z. Alikhani, and D. T. Graves. FOXO1 functions as a master switch that regulates gene expression necessary for tumor necrosis factor-induced fibroblast apoptosis. *The Journal of Biological Chemistry* **280**(13): 12096-102 (2005).

Augustine, L. M., *et al.* Xenobiotic and endobiotic transporter mRNA expression in the blood-testis barrier. *Drug Metabolism and Disposition* **33**(1):182-9 (2005).

Burris, T. P., *et al.*, The hypolipidemic natural product guggulsterone is a promiscuous steroid receptor ligand. *Molecular Pathology* **67**(3):948-54 (2005).

Cheng, X., *et al.* Tissue distribution and ontogeny of mouse organic anion transporting polypeptides (Oatps). *Drug Metabolism and Disposition* **33**(7):1062-73 (2005).

Cheng, X., *et al.* Regulation of mouse organic anion-transporting polypeptides (Oatps) in liver by prototypical microsomal enzyme inducers that activate distinct transcription factor pathways. *Drug Metabolism and Disposition* **33**(9):1276-82 (2005).

Croutch, C. R., *et al.* 2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD) and 1,2,3,4,7,8-hexachlorodibenzo-p-dioxin (HxCDD) alter body weight by decreasing insulin-like growth factor I (IGF-I) signaling. *Toxicological Sciences* **85**(1):560-71 (2005).

Dai, G., *et al.* Retinoid X receptor alpha Regulates the expression of glutathione s transferase genes and modulates acetaminophen-glutathione conjugation in mouse liver. *Molecular Pathology* **68**(6):1590-6 (2005).

Erickson, R. P., *et al.* Liver disease with altered bile acid transport in Niemann-Pick C mice on a high-fat, 1% cholesterol diet. *American Journal of Physiology - Gastrointestinal and Liver Physiology* **289**(2):G300-7 (2005).

Gruber, J., *et al.* RNAi of FACE1 protease results in growth inhibition of human cells expressing lamin A: implications for Hutchinson-Gilford progeria syndrome. *Journal of Cell Science* **118**(Pt 4):689-96 (2005).

Kolachala, V., *et al.* TNF-alpha upregulates adenosine 2b (A2b) receptor expression and signaling in intestinal epithelial cells: a basis for A2bR overexpression in colitis. *Cell and Molecular Life Sciences* **62**(22):2647-57 (2005).

Krishnan, V., *et al.* The nongenotropic synthetic ligand 4-estren-3 $\alpha$ 17 $\beta$ -diol is a high-affinity genotropic androgen receptor agonist. *Molecular Pathology* **67**(3):744-8 (2005).

Krishnaswamy, S., *et al.* UDP glucuronosyltransferase (UGT) 1A6 pharmacogenetics: I. Identification of polymorphisms in the 5'-regulatory and exon 1 regions, and association with human liver UGT1A6 gene expression and glucuronidation. *The Journal of Pharmacology and Experimental Therapeutics* **313**(3):1331-9 (2005).

Li, N. and C. D. Klaassen. Lipopolysaccharide-induced down-regulation of organic anion transporting polypeptide 4 (Oatp4; Slc21a10) is independent of tumor necrosis factor- $\alpha$ , Interleukin-1 $\beta$ , interleukin-6, or inducible nitric oxide synthase. *Toxicological Sciences* **83**(1):197-203 (2005).

Maher, J. M., *et al.* Induction of the multidrug resistance-associated protein family of transporters by chemical activators of receptor-mediated pathways in mouse liver. *Drug Metabolism and Disposition* **33**(7):956-62 (2005).

Maher, J. M., *et al.* Tissue distribution and hepatic and renal ontogeny of the multidrug resistance-associated protein (Mrp) family in mice. *Drug Metabolism and Disposition*, **33**(7):947-55 (2005).

Sawada, H., K. Takami, and S. Asahi. A toxicogenomic approach to drug-induced phospholipidosis: analysis of its induction mechanism and establishment of a novel in vitro screening system. *Toxicological Sciences* **83**(2):282-92 (2005).

Silva, V. M., *et al.* Transport deficient (TR-) hyperbilirubinemic rats are resistant to acetaminophen hepatotoxicity. *Biochemistry and Pharmacology* **70**(12):1832-9 (2005).

Stayrook, K. R., *et al.* Regulation of carbohydrate metabolism by the farnesoid X receptor. *Endocrinology* **146**(3):984-91 (2005).

Thukral, S. K., *et al.* Prediction of nephrotoxicant action and identification of candidate toxicity-related biomarkers. *Toxicologic Pathology* **33**(3):343-55 (2005).

Vermeulen, A., *et al.* The contributions of dsRNA structure to Dicer specificity and efficiency. *RNA* **11**(5):674-82 (2005).

Wen, X. and T. Walle. Preferential induction of CYP1B1 by benzo[a]pyrene in human oral epithelial cells: impact on DNA adduct formation and prevention by polyphenols. *Carcinogenesis*, **26**(10):1774-81 (2005).

Wen, X., U.K. Walle, and T. Walle. 5,7-Dimethoxyflavone downregulates CYP1A1 expression and benzo[a]pyrene-induced DNA binding in Hep G2 cells. *Carcinogenesis* **26**(4):803-9 (2005).

## 2004

Buist, S. C. and C. D. Klaassen. Rat and mouse differences in gender-predominant expression of organic anion transporter (Oat1-3; Slc22a6-8) mRNA levels. *Drug Metabolism and Disposition* **32**(6):620-5 (2004).

Cherrington, N. J., *et al.* Lipopolysaccharide-mediated regulation of hepatic transporter mRNA levels in rats. *Drug Metabolism and Disposition* **32**(7):734-41 (2004).

Dieter, M. Z., *et al.* Expression and regulation of the sterol half-transporter genes ABCG5 and ABCG8 in rats. *Comp Biochemical and Physiology. Toxicology and Pharmacology: CBP* **139**(4):209-18 (2004).

Gruber, J. Functional gene analysis in cultured vertebrate cells using siRNA mediated gene silencing. (2004).

Heijne, W. H., *et al.* Bromobenzene-induced hepatotoxicity at the transcriptome level. *Toxicological Sciences* **79**(2):411-22 (2004).

Li, N., *et al.* Down-regulation of mouse organic anion-transporting polypeptide 4 (Oatp4; Oatp1b2; Slc21a10) mRNA by lipopolysaccharide through the toll-like receptor 4 (TLR4). *Drug Metabolism and Disposition* **32**(11):1265-71 (2004).

Li, N. and C. D. Klaassen. Role of liver-enriched transcription factors in the downregulation of organic anion transporting polypeptide 4 (oatp4; oatplb2; slc21a10) by lipopolysaccharide. *Molecular Pathology* **66**(3):694-701 (2004).

Lu, H., C. Chen, and C. Klaassen. Tissue distribution of concentrative and equilibrative nucleoside transporters in male and female rats and mice. *Drug Metabolism and Disposition* **32**(12):1455-61 (2004).

Reynolds, A., *et al.* Rational siRNA design for RNA interference. *Nature Biotechnology* **22**(3):326-30 (2004).

Sakamoto, S., *et al.* Increased expression of CYR61, an extracellular matrix signaling protein, in human benign prostatic hyperplasia and its regulation by lysophosphatidic acid. *Endocrinology* **145**(6):2929-40 (2004).

Soutschek, J., *et al.* Therapeutic silencing of an endogenous gene by systemic administration of modified siRNAs. *Nature* **432**(7014):173-8 (2004).

Wright, S. H., *et al.* Functional map of TEA transport activity in isolated rabbit renal proximal tubules. *Am J Physiol Renal Physiol* **287**(3):F442-51 (2004).

### 2003

Bramlett, K. S., *et al.* A natural product ligand of the oxysterol receptor, liver X receptor. *The Journal of Pharmacology and Experimental Therapeutics* **307**(1):291-6 (2003).

Buist, S. C., N. J. Cherrington, and C. D. Klaassen. Endocrine regulation of rat organic anion transporters. *Drug Metabolism and Disposition* **31**(5):559-64 (2003).

Cao, G., *et al.* Antidiabetic action of a liver x receptor agonist mediated by inhibition of hepatic gluconeogenesis. *The Journal of Biological Chemistry* **278**(2):1131-6 (2003).

Chen, C., G. E. Hennig, and J. E. Manautou. Hepatobiliary excretion of acetaminophen glutathione conjugate and its derivatives in transport-deficient (TR-) hyperbilirubinemic rats. *Drug Metabolism and Disposition* **31**(6):798-804 (2003).

Chen, C., J. L. Staudinger, and C. D. Klaassen. Nuclear receptor, pregnane X receptor, is required for induction of UDP-glucuronosyltransferases in mouse liver by pregnenolone-16 alpha-carbonitrile. *Drug Metabolism and Disposition* **31**(7):908-15 (2003).

Cherrington, N. J., *et al.* Induction of multidrug resistance protein 3 (mrp3) in vivo is independent of constitutive androstane receptor. *Drug Metabolism and Disposition* **31**(11):1315-9 (2003).

Choudhuri, S., *et al.* Constitutive expression of various xenobiotic and endobiotic transporter mRNAs in the choroid plexus of rats. *Drug Metabolism and Disposition* **31**(11):1337-45 (2003).

Khvorova, A., A. Reynolds, and S. D. Jayasena. Functional siRNAs and miRNAs exhibit strand bias. *Cell* **115**(2):209-16 (2003).

Leazer, T. M. and C. D. Klaassen. The presence of xenobiotic transporters in rat placenta. *Drug Metabolism and Disposition* **31**(2):153-67 (2003).

Sakamoto, S., *et al.* Development of quantitative detection assays for CYR61 as a new marker for benign prostatic hyperplasia. *Journal of Biomolecular Screening* **8**(6):701-11 (2003).

Shelby, M. K., *et al.* Tissue mRNA expression of the rat UDP-glucuronosyltransferase gene family. *Drug Metabolism and Disposition* **31**(3): 326-33 (2003).

Slitt, A. L., *et al.* Induction of multidrug resistance protein 3 in rat liver is associated with altered vectorial excretion of acetaminophen metabolites. *Drug Metabolism and Disposition* **31**(9): 1176-86 (2003).

Tsai, S. P., *et al.* Nucleic acid capture assay, a new method for direct quantitation of nucleic acids. *Nucleic Acids Research* **31**(6): e25 (2003).

Wu, S. J., *et al.* Quantitation of CYP1A1 and 1B1 mRNA in polycyclic aromatic hydrocarbon-treated human T-47D and HepG2 cells by a modified bDNA assay using fluorescence detection. *Analytical Biochemistry* **312**(2): 162-6 (2003).

## 2002

Bader, T., *et al.* Human adipose tissue under in vitro inhibition of 11beta-hydroxysteroid dehydrogenase type 1: differentiation and metabolism changes. *Hormone and Metabolic Research* **34**(11-12): 752-7 (2002).

Brady, J. M., *et al.* Tissue distribution and chemical induction of multiple drug resistance genes in rats. *Drug Metabolism and Disposition* **30**(7): 838-44 (2002).

Buist, S. C., *et al.* Gender-specific and developmental influences on the expression of rat organic anion transporters. *The Journal of Pharmacology and Experimental Therapeutics* **301**(1): 145-51 (2002).

Cherrington, N. J., *et al.* Organ distribution of multidrug resistance proteins 1, 2, and 3 (Mrp1, 2, and 3) mRNA and hepatic induction of Mrp3 by constitutive androstane receptor activators in rats. *The Journal of Pharmacology and Experimental Therapeutics* **300**(1): 97-104 (2002).

Czerwinski, M., *et al.* Analysis of CYP mRNA expression by branched DNA technology. *Methods Enzymol* **357**: 170-9 (2002).

Guo, G. L., S. Choudhuri, and C. D. Klaassen. Induction profile of rat organic anion transporting polypeptide 2 (oatp2) by prototypical drug-metabolizing enzyme inducers that activate gene expression through ligand-activated transcription factor pathways. *The Journal of Pharmacology and Experimental Therapeutics* **300**(1): 206-12 (2002).

Guo, G. L., D. R. Johnson, and C. D. Klaassen. Postnatal expression and induction by pregnenolone-16alpha-carbonitrile of the organic anion-transporting polypeptide 2 in rat liver. *Drug Metabolism and Disposition* **30**(3): 283-8 (2002).

Harstad, E. B. and C. D. Klaassen. Analysis of strain difference in sensitivity to cadmium-induced hepatotoxicity in Fischer 344 and Sprague-Dawley rats. *Toxicological Sciences* **67**(2): 329-40 (2002).

Johnson, D. R., G. L. Guo, and C. D. Klaassen. Expression of rat Multidrug Resistance Protein 2 (Mrp2) in male and female rats during normal and pregnenolone-16alphacarbonitrile (PCN)-induced postnatal ontogeny. *Toxicology* **178**(3): 209-19 (2002).

Johnson, D. R., S. S. Habeebu, and C. D. Klaassen. Increase in bile flow and biliary excretion of glutathione-derived sulfhydryls in rats by drug-metabolizing enzyme inducers is mediated by multidrug resistance protein 2. *Toxicological Sciences* **66**(1): 16-26 (2002).

Johnson, D. R. and C. D. Klaassen. Regulation of rat multidrug resistance protein 2 by classes of prototypical microsomal enzyme inducers that activate distinct transcription pathways. *Toxicological Sciences* **67**(2): 182-9.

Leazer, T. M., Y. Liu, and C. D. Klaassen. Cadmium absorption and its relationship to divalent metal transporter-1 in the pregnant rat. *Toxicology and Applied Pharmacology* **185**(1): 18-24 (2002).

Li, N., *et al.* Tissue expression, ontogeny, and inducibility of rat organic anion transporting polypeptide 4. *The Journal of Pharmacology and Experimental Therapeutics* **301**(2): 551-60 (2002).

Luckey, S. W., *et al.* 4-hydroxynonenal decreases interleukin-6 expression and protein production in primary rat Kupffer cells by inhibiting nuclear factor-kappaB activation. *The Journal of Pharmacology and Experimental Therapeutics* **302**(1): 296-303 (2002).

Luo, G., *et al.* CYP3A4 induction by drugs: correlation between a pregnane X receptor reporter gene assay and CYP3A4 expression in human hepatocytes. *Drug Metabolism and Disposition* **30**(7): 795-804 (2002).

Park, J. D., N. J. Cherrington, and C. D. Klaassen. Intestinal absorption of cadmium is associated with divalent metal transporter 1 in rats. *Toxicological Sciences* **68**(2): 288-94 (2002).

Park, J. D., S. S. Habeebu, and C. D. Klaassen. Testicular toxicity of di-(2-ethylhexyl)phthalate in young Sprague-Dawley rats. *Toxicology* **171**(2-3): 105-15 (2002).

Slitt, A. L., *et al.* Tissue distribution and renal developmental changes in rat organic cation transporter mRNA levels. *Drug Metabolism and Disposition* **30**(2): 212-9 (2002).

Vansell, N. R. and C. D. Klaassen. Increase in rat liver UDP-glucuronosyltransferase mRNA by microsomal enzyme inducers that enhance thyroid hormone glucuronidation. *Drug Metabolism and Disposition* **30**(3): 240-6 (2002).

Wagaman, P. C., M. A. Leong, and K. A. Simmen. Development of a novel influenza A antiviral assay. *Journal of Virological Methods* **105**(1): 105-14 (2002).

Xiang, H., *et al.* Enhanced tumor killing by Apo2L/TRAIL and CPT-11 co-treatment is associated with p21 cleavage and differential regulation of Apo2L/TRAIL ligand and its receptors. *Oncogene* **21**(22): 3611-9 (2002).

Zhang, Y., *et al.* Liver X receptor and retinoic X receptor mediated ABCA1 regulation and cholesterol efflux in macrophage cells-messenger RNA measured by branched DNA technology. *Mol Genet Metab* **77**(1-2): 150-8 (2002).

## 2001

Allan, G. F., *et al.* Induction of the progesterone receptor gene in estrogen target cells monitored by branched DNA signal amplification. *Steroids* **66**(9): 663-71 (2001).

Player, A. N., *et al.* Single-copy gene detection using branched DNA (bDNA) in situ hybridization. *Journal of Histochemistry and Cytochemistry* **49**(5): 603-12 (2001).

Rausch-Derra, L. C., *et al.* Differential effects of microsomal enzyme-inducing chemicals on the hepatic expression of rat organic anion transporters, OATP1 and OATP2. *Hepatology* **33**(6): 1469-78 (2001).

Sen, A., *et al.* Adipogenic potential of human adipose derived stromal cells from multiple donors is heterogeneous. *J Cell Biochem* **81**(2): 312-9.

Takiguchi, M., *et al.* Cyproterone acetate induces a cellular tolerance to cadmium in rat liver epithelial cells involving reduced cadmium accumulation. *Toxicology* **165**(1): 13-25 (2001).

## 2000

Bramlett, K. S., S. Yao, and T. P. Burris. Correlation of farnesoid X receptor coactivator recruitment and cholesterol 7 $\alpha$ -hydroxylase gene repression by bile acids. *Mol Genet Metab* **71**(4): 609-15 (2000).

Hartley, D. P. and C. D. Klaassen. Detection of chemical-induced differential expression of rat hepatic cytochrome P450 mRNA transcripts using branched DNA signal amplification technology. *Drug Metabolism and Disposition* **28**(5): 608-16 (2000).

Warrior, U., *et al.* Application of QuantiGene nucleic acid quantification technology for high throughput screening. *Journal of Biomolecular Screening* **5**(5):343-52 (2000).

Wentworth, J. M., T. P. Burris, and V. K. Chatterjee. HIV protease inhibitors block human preadipocyte differentiation, but not via the PPARgamma/RXR heterodimer. *Journal of Endocrinology* **164**(2):R7-R10 (2000).

Zhou, L., *et al.* A branched DNA signal amplification assay to quantitate messenger RNA of human uncoupling proteins 1, 2, and 3. *Analytical Biochemistry* **282**(1):46-53 (2000).

### 1999

Burris, T. P., *et al.* A novel method for analysis of nuclear receptor function at natural promoters: peroxisome proliferator-activated receptor gamma agonist actions on aP2 gene expression detected using branched DNA messenger RNA quantitation. *Molecular Endocrinology* **13**(3):410-7 (1999).

Todd, M. D., *et al.* Toxicity Screening of a Combinatorial Library: Correlation of Cytotoxicity and Gene Induction to Compound Structure. *Journal of Biomolecular Screening* **4**(5):259-268 (1999).