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Peer reviewed publications (since 2004):

Downey CM, Horton CR, Carlson BA, Parsons TE, Hatfield DL, Hallgrímsson B, Jirik FR. *Osteo-Chondroprogenitor-Specific Deletion of the Selenocysteine tRNA Gene, Trsp, Leads to Chondronecrosis and Abnormal Skeletal Development: a Putative Model for Kashin-Beck Disease.* **PLoS Genetics.** 2009 (in press).

Bondareva A, Downey C, Ayres F, Liu W, Boyd SK, Hallgrímsson B, Jirik FR. *The lysyl oxidase inhibitor, beta-aminopropionitrile, diminishes metastatic colonization potential of circulating breast cancer cells.* **PLoS ONE.** 2009;4(5):e5620. Epub 2009 May 19.

Weljie AM, Newton J, Jirik FR, Vogel HJ. *Evaluating low-intensity signals in quantitative proton NMR mixture analysis.* **Analytical Chem.** 2008 (accepted; Epub Oct 2008)

Luchman HA, Benediktsson H, Peterson A, Jirik FR. *The pace of prostatic intraepithelial neoplasia development is determined by the timing of Pten tumor suppressor gene excision.* **PLoS ONE.** 2008, 3(12):e3940.

Tsutsui S, Johnson T, Hahn J, Ali Z, Jirik FR. *Absence of the cellular prion protein exacerbates and prolongs neuroinflammation in experimental autoimmune encephalomyelitis (EAE).* **Am J Pathol.** 2008, 173(4):1029-1041.

Heit B, Guan Z, Robbins S, Colarusso P, Downey C, Miller BJ, Jirik FR, Kubes P. *PTEN functions to 'prioritize' chemotactic clues and prevent 'distraction' in migrating neutrophils.* **Nature Immunol.** 2008, 9(7):743-752.

Khosravani H, Zhang Y, Tsutsui S, Hameed S, Hamid J, Chen L, Villemaire M, Ali Z, Altier C, Jirik FR, Zamponi GW. *Prion protein decreases excitotoxicity via attenuation of NMDA receptor function.* **J Cell Biol.** 2008, 181:551-565.

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Cummings KJ, Kalf D, Moore S, Miller BJ, Jirik FR, Wilson RJA. *Superoxide dismutase-1 influences the timing and post-hypoxic stability of neonatal breathing.* **Adv Exp Med Biol.** 2008, 605:133-138.

Weljie AM, Dowlatabadi R, Miller BJ, Vogel HJ, Jirik FR. *An Inflammatory Arthritis-Associated Metabolite Biomarker Pattern Revealed by (1)H NMR Spectroscopy*. **J Proteome Res.** 2007, 6(9):3456-3464.

Ford-Hutchinson AF, Ali Z, Lines SE, Hallgrimsson B, Boyd SK, Jirik FR. *Inactivation of Pten in osteo-chondroprogenitor cells leads to epiphyseal growth plate abnormalities and skeletal overgrowth*. **J Bone Miner Res.** 2007, 22(8):1245-59.

Starnes, LM, Downey CM, Boyd SK, Jirik FR. *Increased bone mass in male and female mice following tamoxifen administration*. **Genesis.** 2007, 45(4):229-35.

Hallgrimsson B, Lieberman DE, Liu W, Ford-Hutchinson AF, Jirik FR. *Epigenetic interactions and the structure of phenotypic variation in the cranium*. **Evolution Develop.** 2007, 9(1):76-91.

Hallgrimsson B, Brown JJY, Ford-Hutchinson AF, Sheets HD, Zelditch ML, Jirik FR. *The brachymorph mouse and the developmental-genetic basis for canalization and morphological integration*. **Evolution Develop.** 2006, 8:61-73.

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Fortier M, Soni K, Laurin N, Wang SP, Mauriege P, Jirik FR, Mitchell GA. *Human hormone-sensitive lipase (HSL): expression in white fat corrects the white adipose phenotype of HSL-deficient mice*. **J Lipid Res.** 2005, 46(9):1860-7.

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Moody JL, Jirik FR. *Compound heterozygosity for Pten and SHIP augments T-dependent humoral immune responses and cytokine production by CD(4+) T cells*. **Immunology** 2004, 112(3):404-12.

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Storbeck CJ, Drmanic S, Daniel K, Waring JD, Jirik FR, Parry DJ, Ahmed N, Sabourin LA, Ikeda JE, Korneluk RG. *Inhibition of myogenesis in transgenic mice expressing the human DMPK 3'-UTR.* **Hum Mol Genet.** 2004, 13(6):589-600.

Stapleton T, Luchman A, Johnston J, Browder L, Brenner S, Venkatesh B, Jirik FR. *Compact intergenic regions of the pufferfish genome facilitate isolation of gene promoters: characterization of Fugu 3'-phosphoadenosine 5'-phosphosulfate synthase 2 (fPapss2) gene promoter function in transgenic Xenopus.* **FEBS Lett.** 2004, 556(1-3):59-63.

Non-peer-reviewed publications:

Pushie MJ, Rauk A, Jirik FR, Vogel HJ. *Can copper binding to the prion protein generate an infectious form of the protein?* **BioMetals** 2009, 22(1):159-175.

Davies GA, Bryant AR, Reynolds JD, Jirik FR, Sharkey KA. *Prion diseases and the gastrointestinal tract.* **Can J Gastroenterol** 2006, 20: 18-24.

Book chapters:

Moody JL, Jirik FR. *A balance between the activities of phosphatidylinositol 3-kinase and the lipid phosphatases Pten and SHIP is critical for T cells to correctly navigate between immunosuppression and autoimmunity;* in **Altered immunoregulation and human disease**, Gorczynski R, Editor, Life Sciences 2005.

Monteith DP, Leung JD, Borowski AH, Co DO, Praznovszky T, Jirik FR, Hadlaczky G, Perez CF. *Pronuclear microinjection of purified artificial chromosomes for generation of transgenic mice: pick-and-inject technique.* **Methods Mol Biol.** 2004;240:227-42.

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