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Publications

- **Thompson, K.L.** and L.S. Kubatko. 2013. Using ancestral information to detect and localize quantitative trait loci in genome-wide association studies. *BMC Bioinformatics*, **14**:200. PMID: 23786262 PMCID: PMC3706278.
- Manning J., Yin, G., Kaminski, C., Magyar, J., Feng, H.-Z., Penn, J., Sievert, G., **Thompson, K.**, Jin, J.-P., Andres, D. and J. Satin. 2013. Rad GTPase deletion increases L-type calcium channel current leading to increased cardiac contraction. *Journal of the American Heart Association*, **2**(6):e000459. PMID: 24334906 PMCID: PMC3886777.
- **Thompson, K.L.**, Charnigo, R., and C.R. Linnen. 2013. Using ancestral information to inform analyses of complex data sets. *Journal of Biostatistics and Biometrics*, **4**:e126. (*Invited commentary*).
- **Thompson, K.L.** and D.W. Fardo. 2016. Comparing performance of non-tree-based and tree-based association mapping methods. *BMC Proceedings*, **10**(7):405-410. PMID: 27980669 PMCID: PMC5133494.
- **Thompson, K.** and R. Charnigo. 2015. Parallel computing in genome-wide association studies. *Journal of Biostatistics and Biometrics*, **6**:e131. (*Invited commentary*).
- Pumphrey, A., Zhengshi, Y., Ye, S., Thalman, S., Watt, D., Abdel-Latif, A., Unrine, J., **Thompson, K.**, Fornwalt, B., Ferrauto, G., and Vandsburger, M. 2016. Advanced cardiac chemical exchange saturation transfer (cardioCEST) MRI for multi-color cell tracking and metabolic imaging. *NMR in Biomedicine*, **29**(1):74-83. PMID: 26684053 PMCID: PMC4907269.
- Gawriluk, T.R., Simkin, J., **Thompson, K.L.**, Biswas, S., Clare-Salzler, Z., Kimani, J.M., Kiama, S.G., Ezenwa V.O., Smith, J.J., and Seifert, A.W. 2016. Comparative analysis of ear-hole closure identifies epimorphic regeneration as a discrete trait in mammals. *Nature Communications*, **7**:11164. PMID: 27109826 PMCID: PMC4848467. (Co-First Author)
- Noehren, B., A. Andersen, P. Hardy, D. Johnson, M. Ireland, **K. Thompson**, and B. Damon. 2016. Cellular and Morphological Alterations in the Vastus Lateralis Muscle as the Result of ACL Injury and Reconstruction. *Journal of Bone & Joint Surgery, American Volume*. **98**(18):1541–1547. PMID: 27655981 PMCID: PMC5026157.
- Harper, K.E., Bagley, R.K., **Thompson, K.L.**, and Linnen, C.R. 2016. Complementary sex determination, inbreeding depression, and inbreeding avoidance in a gregarious sawfly. *Heredity*, **117**:326-335. PMID: 27381325 PMCID: PMC5061915.

- **Thompson, K.L.**, Linnen, C.R., and L.S. Kubatko. 2016. Tree-based quantitative trait mapping in the presence of external covariates. *Statistical Applications in Genetics and Molecular Biology*, **15**(6): 473-490. PMID: 27875322.
- Thrailkill, K., Nyman, J., Bunn, R., Uppuganti, S., **Thompson, K.**, Lumpkin, C., Kalaitzoglou, and J.L Fowlkes. 2016. The impact of SGLT2 inhibitors, compared with insulin, on diabetic bone disease in a mouse model of Type 1 Diabetes. *Bone*. 94:141-151. PMID: 27989651. (Published online ahead of print.)
- Gober, M.K., **Thompson, K.L.**, and P. Black. 2017. A microRNA signature of response to erlotinib is descriptive of TGF β behaviour in NSCLC. *Scientific Reports*. **7**: 4202.
- Nelson, P.T., Wang, W.-X., Janse*, S.A., and **K.L. Thompson**. 2017. MicroRNA expression patterns in human anterior cingulate and motor cortex: A study of dementia with Lewy bodies cases and controls. *Accepted to Brain Research*.

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