

### Selected peer-reviewed publications:

1. K.E. Odening, O. Hyder, L. Chaves, L. Schofield, M. Brunner, M. Kirk, M. Zehender, X. Peng, **G. Koren**. Pharmacogenomics of Anesthetic Drugs in Transgenic LQT1 and LQT2 Rabbits Reveal Genotype-Specific Differential Effects on Cardiac Repolarization. *Am J Physiol Heart Circ Physiol*, 295: H2264–H2272, 2008
  2. Simon A, Harrington E, Liu G, **Koren G**, Choudhary G. C-type natriuretic peptide and pulmonary microvascular endothelial cell membrane potential. *Am J Physiol Heart Circ Physiol* 2008; 295:2264-2272.
  3. Goldman R, Kingdon C, Wasser J, Clark M, Goldberg R, Papandonatos G, Hawrot E, **Koren G**. Rhode Islanders' attitudes toward the development of a state-wide genetic Biobank. *Personalized Medicine*; July 2008; Vol. 5, No. 4; 339-359.
  4. Jindal HK, Folco E, Liu G, **Koren G**. Posttranslational modification of voltage-dependent potassium channel Kv1.5: COOH-terminal palmitoylation modulates its biological properties. *Am J Physiol Heart Circ Physiol* 2008; 294:2012-2021.
  5. Brunner M, Peng X, Liu G, Ren X, Ziv O, Choi BR, Mathur R, Hajjiri M, Odening KE, Steinberg E, Folco EJ, Pringa E, Centracchio J, Macharzina RR, Donahay T, Schofield L, Rana N, Kirk M, Mitchell G, Poppas A, Zehender M, **Koren G**. Mechanisms of cardiac arrhythmias and sudden death in transgenic rabbits with long QT syndrome. *J Clin. Invest.* 2008; 118:2246-2259.
  6. Zhu M, Gach A, Liu G, Xu X, Lim CC, Zhang J, Mao L, Chuprun K, Koch W, Liao R, **Koren G**, Blaxall B, Mende U. Enhanced calcium cycling and contractile function in transgenic mice expressing constitutively active G $\alpha$ o protein *Am J Physiol Heart Circ Physiol* 2008; 294: H1335-H1347.
  7. Liu G, Zhou J, **Koren G**. Single-channel properties of  $I_{K,slow1}$  and  $I_{K,slow2}$  in mouse ventricular myocytes. *Pflugers Arch - Eur J Physiol* 2008; 456:541–547.
  8. Roder K, **Koren G**. The K<sup>+</sup> channel gene, *Kcnb1*: genomic structure and characterization of its 5'-regulatory region as part of an overlapping gene group. *Biological Chemistry* 2006; 387: 1237-1246.
  9. **Koren G**. Electrical remodeling and arrhythmias in long-QT syndrome: lessons from genetic models in mice. *Ann Med* 2004; 36(Suppl 1): 22-27.
  10. Folco E, Liu G-X, **Koren G**. Caveolin-3, Kv1.5 and SAP97 form a tripartite protein complex that regulates channel function, *American Journal of Physiology* 2004; 287(2): p. H601-H607.
  11. Liu G-X, Zhou J, Nattel S, **Koren G**. Single-channel recordings of a rapid delayed rectifier current in adult mouse ventricular myocytes: basic properties and effects of divalent cations. *J Physiology* 2004; 556: 401-413.
  12. Kodirov SA, Brunner M, Nerbonne JM, Buckett P, Mitchell GF, **Koren G**. Attenuation of  $I_{K,slow1}$  and  $I_{K,slow2}$  in Kv1/Kv2DN mice prolongs the APD and QT intervals but does not suppress spontaneous or inducible arrhythmias. *American Journal of Physiology* 2004; 286: H368-374.
  13. Folco EJ, Roder K, Mitchell GF, **Koren G**. “Cardiac Memory”: a struggle against forgetting. *Circ Res* 2003; 93:384-6.
  14. Kodirov SA, Brunner M, Busconi L, **Koren G**. Tissue-specific expressions of two human Cav 1.2 isoforms under the control of distinct 5'-flanking regulatory elements. *FEBS Letters* 2003; 550:74-78.
  15. Pang L, **Koren G**, Wang Z, Nattel S. Tissue-specific expressions of two human Ca<sub>v</sub>1.2 isoforms under the control of distinct 5'-flanking regulatory elements. *FEBS Letters* 2003; 543:349-354.
  16. Brunner M, Kodirov S, Mitchell G, Buckett P, Shibata K, Folco E, Baker L, Salama G, Chan D, Zhou J, **Koren G**. In vivo gene therapy of Kv1.5 normalizes action potential duration and shortens QT interval in mice with Long QT phenotype. *American Journal of Physiology* 2003; 285:H194-H203.
  17. Zhou J, Kodirov S, Murata M, Buckett P, Nerbonne JM, **Koren G**. Apical upregulation of Kv2.1-encoded current,  $I_{K,slow2}$  in Kv1DN mice is abolished by crossbreeding with Kv2DN mice. *American Journal of Physiology* 2003; 284: H491-H500.
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