## Author's Accepted Manuscript

The Cardiomyocyte Molecular Clock Regulates the Circadian Expression of *Kcnh2* and Contributes to Ventricular Repolarization

Elizabeth A. Schroder Ph.D., Don E. Burgess Ph.D., Xiping Zhang Ph.D., Mellani Lefta Ph.D., M.D., Jennifer L. Smith B.S., Abhijit Patwardhan Ph.D., Daniel C. Bartos Ph.D., Claude S. Elayi M.D., Karyn A. Esser Ph.D., Brian P. Delisle Ph.D.



www.elsevier.com/locate/buildenv

PII: S1547-5271(15)00198-8

DOI: http://dx.doi.org/10.1016/j.hrthm.2015.02.019

Reference: HRTHM6137

To appear in: Heart Rhythm

Cite this article as: Elizabeth A. Schroder Ph.D., Don E. Burgess Ph.D., Xiping Zhang Ph.D., Mellani Lefta Ph.D., M.D., Jennifer L. Smith B.S., Abhijit Patwardhan Ph.D., Daniel C. Bartos Ph.D., Claude S. Elayi M.D., Karyn A. Esser Ph.D., Brian P. Delisle Ph.D., The Cardiomyocyte Molecular Clock Regulates the Circadian Expression of *Kcnh2* and Contributes to Ventricular Repolarization, *Heart Rhythm*, http://dx.doi.org/10.1016/j.hrthm.2015.02.019

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting galley proof before it is published in its final citable form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

The Cardiomyocyte Molecular Clock Regulates the Circadian Expression of Kcnh2 and **Contributes to Ventricular Repolarization** 

Elizabeth A. Schroder, Ph.D.<sup>a</sup>; Don E. Burgess, Ph.D.<sup>a</sup>; Xiping Zhang<sup>a</sup> Ph.D., Mellani Lefta<sup>a</sup>

Ph.D., M.D.: Jennifer L. Smith, B.S.<sup>a</sup>: Abhijit Patwardhan, Ph.D.<sup>b</sup>: Daniel C. Bartos, Ph.D.<sup>a</sup>:

Claude S. Elayi, M.D.<sup>c</sup>; Karyn A. Esser, Ph.D.<sup>a</sup>; and Brian P. Delisle, Ph.D.<sup>a</sup>

<sup>a</sup>Center for Muscle Biology, Department of Physiology, University of Kentucky, Lexington, KY

<sup>b</sup>Center for Biomedical Engineering, University of Kentucky, Lexington, KY

<sup>c</sup>Department of Cardiology, University of Kentucky, Lexington, KY

**Short Title: Bmall Regulates Ventricular Repolarization** 

**Corresponding Author:** 

Brian P. Delisle

Department of Physiology

University of Kentucky College of Medicine

800 Rose St. MS508

Lexington, KY 40536

Telephone: (859) 323-2797

e-mail: brian.delisle@uky.edu

**Acknowledgement of Financial Support: Funding Sources** 

This work was supported by the following NIH grants RC1ES018636 and AR55246 (KAE), and

R01 HL087039 (BPD).

**Conflicts of Interests:** Brian Delisle has a research contract with Gilead Scientific.

**Total Word Count:** 4647

## Download English Version:

## https://daneshyari.com/en/article/5960175

Download Persian Version:

https://daneshyari.com/article/5960175

<u>Daneshyari.com</u>