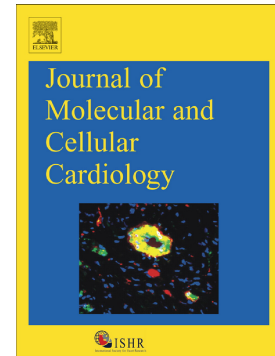


## Accepted Manuscript

Point mutations in the tri-helix bundle of the M-domain of cardiac myosin binding protein-C influence systolic duration and delay cardiac relaxation

Sabine J. van Dijk, Kristina B. Kooiker, Nathaniel C. Napierski, Katia D. Touma, Stacy Mazzalupo, Samantha P. Harris



PII: S0022-2828(18)30148-2

DOI: doi:[10.1016/j.yjmcc.2018.05.001](https://doi.org/10.1016/j.yjmcc.2018.05.001)

Reference: YJMCC 8729

To appear in: *Journal of Molecular and Cellular Cardiology*

Received date: 18 October 2017

Revised date: 6 April 2018

Accepted date: 1 May 2018

Please cite this article as: Sabine J. van Dijk, Kristina B. Kooiker, Nathaniel C. Napierski, Katia D. Touma, Stacy Mazzalupo, Samantha P. Harris , Point mutations in the tri-helix bundle of the M-domain of cardiac myosin binding protein-C influence systolic duration and delay cardiac relaxation. The address for the corresponding author was captured as affiliation for all authors. Please check if appropriate. Yjmcc(2018), doi:[10.1016/j.yjmcc.2018.05.001](https://doi.org/10.1016/j.yjmcc.2018.05.001)

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 proof before it is published in its final 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.

# **Point mutations in the tri-helix bundle of the M-domain of cardiac myosin binding protein-C influence systolic duration and delay cardiac relaxation.**

Short title: cMyBP-C binding to actin regulates systolic timing.

Sabine J. van Dijk, PhD<sup>a,1\*</sup> & Kristina B. Kooiker, PhD<sup>b,2\*</sup>, Nathaniel C. Napierski<sup>a</sup>, Katia D. Touma<sup>a3</sup>, Stacy Mazzalupo, PhD<sup>a4</sup>, and Samantha P. Harris, PhD<sup>a</sup>

<sup>a</sup> Department of Cellular and Molecular Medicine, University of Arizona, 1656 East Mabel Street, Tucson, AZ 85724

<sup>b</sup> Department of Neurobiology, Physiology and Behavior, University of California Davis, One Shields Avenue, Davis, CA 95616

<sup>1</sup> Current address: Department of Pharmacology, University of California Davis, 451 Health Science Drive, Davis, CA 95616

<sup>2</sup> Current address: Division of Cardiology, Department of Internal Medicine, University of Washington, 1959 NE Pacific Street, Box 356422, Seattle, WA 98195

<sup>3</sup> Current address: Ventana Medical Systems, Inc., 1910 E Innovation Park Dr, Tucson, AZ 85755

<sup>4</sup> Current address: Leica Biosystems, 36 Cherry Hill Dr, Danvers, MA 01923

\* Authors contributed equally to this manuscript

Corresponding author:

Samantha Harris

Department of Cellular and Molecular Medicine, University of Arizona

313 Medical Research Building

1656 E Mabel Street

Tucson, AZ 85724

T: 520-621-0291

F: 520-626-7600

[samharris@email.arizona.edu](mailto:samharris@email.arizona.edu)

Download English Version:

<https://daneshyari.com/en/article/8473411>

Download Persian Version:

<https://daneshyari.com/article/8473411>

[Daneshyari.com](https://daneshyari.com)