

Accepted Manuscript

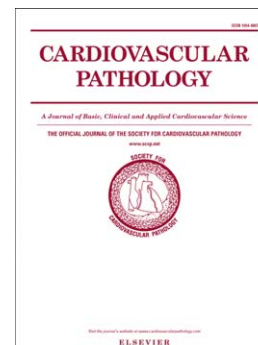
Reduced Activin Receptor Like-Kinase 1 Activity Promotes Cardiac Fibrosis in Heart Failure

Kevin J. Morine, Xiaoying Qiao, Vikram Paruchuri, Mark J. Aronovitz, Emily E. Mackey, Lyanne Buiten, Jonathan Levine, Keshan Ughreja, Perna Nepali, Robert M. Blanton, S. Paul Oh, Richard H. Karas, Navin K. Kapur

PII: S1054-8807(17)30134-5
DOI: doi: [10.1016/j.carpath.2017.07.004](https://doi.org/10.1016/j.carpath.2017.07.004)
Reference: CVP 7016

To appear in: *Cardiovascular Pathology*

Received date: 13 May 2017
Revised date: 3 July 2017
Accepted date: 12 July 2017



Please cite this article as: Morine Kevin J., Qiao Xiaoying, Paruchuri Vikram, Aronovitz Mark J., Mackey Emily E., Buiten Lyanne, Levine Jonathan, Ughreja Keshan, Nepali Perna, Blanton Robert M., Oh S. Paul, Karas Richard H., Kapur Navin K., Reduced Activin Receptor Like-Kinase 1 Activity Promotes Cardiac Fibrosis in Heart Failure, *Cardiovascular Pathology* (2017), doi: [10.1016/j.carpath.2017.07.004](https://doi.org/10.1016/j.carpath.2017.07.004)

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.

Reduced Activin Receptor Like-Kinase 1 Activity Promotes Cardiac Fibrosis in Heart Failure

Kevin J. Morine^{a*}, MD, Xiaoying Qiao^{a*}, PhD, Vikram Paruchuri^a, MD, Mark J. Aronovitz^a, Emily E. Mackey^a, Lyanne Buiten^a, Jonathan Levine^a, Keshan Ughreja^a, Prerna Nepalia^a, Robert M. Blanton^a, MD, S. Paul Oh^b, PhD, Richard H. Karas^a, MD, PhD, Navin K. Kapur^a, MD

^a Molecular Cardiology Research Institute and Division of Cardiology, Department of Medicine, Tufts Medical Center, 800 Washington Street, Boston, Massachusetts, 02111, USA

^b Department of Physiology and Functional Genomics, University of Florida College of Medicine, 1600 SW Archer Road, Gainesville, FL 32610, USA

*These authors contributed equally to this work

Short title: ALK1 Deficiency and Cardiac Fibrosis

Correspondence to:

Navin K. Kapur, MD

Tufts Medical Center

800 Washington Street, Box # 80

Boston, MA 02111

Telephone: 617-636-9371

Fax: 617-636-1444

Email: Nkapur@tuftsmedicalcenter.org

Word Count: 3203

There are no relevant financial relationships to disclose.

Download English Version:

<https://daneshyari.com/en/article/5600064>

Download Persian Version:

<https://daneshyari.com/article/5600064>

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