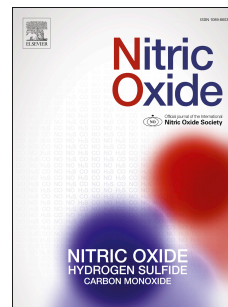


Accepted Manuscript

Donor heart preservation with a novel long-term and slow-releasing hydrogen sulfide system

Xiaotian Sun, Wenshuo Wang, Jing Dai, Jiechun Huang, Meng Shi, Xianglin Chu, Fangrui Wang, Changfa Guo, Chunsheng Wang, Liewen Pang, Yiqing Wang



PII: S1089-8603(18)30162-9

DOI: [10.1016/j.niox.2018.09.001](https://doi.org/10.1016/j.niox.2018.09.001)

Reference: YNIOX 1820

To appear in: *Nitric Oxide*

Received Date: 7 June 2018

Revised Date: 8 August 2018

Accepted Date: 6 September 2018

Please cite this article as: X. Sun, W. Wang, J. Dai, J. Huang, M. Shi, X. Chu, F. Wang, C. Guo, C. Wang, L. Pang, Y. Wang, Donor heart preservation with a novel long-term and slow-releasing hydrogen sulfide system, *Nitric Oxide* (2018), doi: 10.1016/j.niox.2018.09.001.

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.

1 **Donor Heart Preservation with A Novel Long-Term and Slow-Releasing**
2 **Hydrogen Sulfide System**

3 Xiaotian Sun^{1*}, Wenshuo Wang², Jing Dai³, Jiechun Huang¹, Meng Shi¹, Xianglin Chu¹,

4 Fangrui Wang¹, Changfa Guo², Chunsheng Wang², Liewen Pang^{1*}, and Yiqing Wang^{1*}

5 *1 Department of Cardiothoracic Surgery, Huashan Hospital of Fudan University, Shanghai 200040,*
6 *China*

7 *2 Department of Cardiac Surgery, Zhongshan Hospital of Fudan University and Shanghai Institute of*
8 *Cardiovascular Diseases, Shanghai 200032, China*

9 *3 Department of Clinical Diagnostics, Hebei Medical University, Shijiazhuang 050017, China*

10 *Corresponding author:

11 Xiaotian Sun. Email: sunxiaotian@huashan.org.cn. &

12 Liewen Pang. Email: pangliewen@huashan.org.cn. &

13 Yiqing Wang. Email: wangyiqing@huashan.org.cn.

14 **Abbreviations:** CAT: Catalase; CK: Creatine Kinase; GSH: Reduced Glutathione; GYY4137:
15 morpholin-4-ium 4-methoxyphenyl (morpholino) phosphinodithioate; H₂S: Hydrogen Sulfide; I/R:
16 Ischemia and Reperfusion Injury; LDH: Lactate Dehydrogenase; LVDP: Left Ventricle Developed
17 Pressure; LVEDP: Left Ventricle End Diastolic Pressure; LVESP: Left Ventricle End Systolic Pressure;
18 MDA: Malonydialdehyde; MSN: Mesoporous Silica Nanoparticles; NaHS: Sodium Hydrosulphide;
19 SOD: Superoxide Dismutase.

20 **Keywords:** Hydrogen Sulfide; DATS-MSN; Slow Release; Ischemia and Reperfusion Injury; Heart
21 Transplantation.

Download English Version:

<https://daneshyari.com/en/article/11017278>

Download Persian Version:

<https://daneshyari.com/article/11017278>

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