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## ACCEPTED MANUSCRIPT

Pharmacological inhibition of the mitochondrial NADPH oxidase 4/PKCa/Gal-3 1 pathway reduces left ventricular fibrosis following myocardial infarction. 2 3 Asensio-Lopez MC<sup>1,6\*</sup>, Lax A <sup>1,6\*</sup>; Fernandez del Palacio MJ<sup>2,6</sup>; Sassi Y<sup>3,6</sup>; Hajjar RJ<sup>3,6</sup>, 4 and Pascual-Figal DA<sup>4, 5,6</sup>. 5 6 7 1.- Biomedical Research Institute Virgen de la Arrixaca (IMIB-Arrixaca), University of 8 Murcia, Murcia, Spain. 9 2.- Veterinary Teaching Hospital, Veterinary Medicine and Surgery Department, University of Murcia, Murcia, Spain 10 3.- Cardiovascular Research Center, Icahn School of Medicine at Mount Sinai, New 11 York. 12 4.- Cardiology Department, Clinic and Universitary Hospital Virgen de la Arrixaca, 13 Murcia, Spain. 14 5.- CIBER in Cardiovascular Diseases (CIBERCV), Madrid, Spain. 15 6.- This author takes responsibility for all aspects of the reliability and freedom from 16 17 bias of the data presented and their discussed interpretation. 18 \*: The authors contributed equally. 19 20 Short running head: MitoNox/PKCa/Gal-3 pathway and adverse cardiac fibrosis 21 22 Address for correspondence: Antonio Lax Perez, PhD 23 Biomedical Research Institute Virgen de la Arrixaca (IMIB-Arrixaca), University of 24 25 Murcia, Murcia, Spain. University of Murcia, Murcia, Spain. 26 Ctra. Madrid-Cartagena s/n, 30120 Murcia, Spain 27 Tel: +34-868888136. Fax: +34-968369662 28 29 E-mail: alax@um.es 30 31

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