Accepted Manuscript

Title: Neuroprotective assessment of prolonged local hypothermia postcontusive spinal cord injury in rodent model

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PII: S1529-9430(17)31117-8

DOI: https://doi.org/doi:10.1016/j.spinee.2017.10.066

Reference: SPINEE 57526

To appear in: The Spine Journal

Received date: 4-8-2017 Revised date: 26-9-2017 Accepted date: 16-10-2017



Please cite this article as: Daniel TEH Boon Loong, Soo Min CHUA, Ankshita PRASAD, Ioannis KAKKOS, Wenxuan JIANG, Yue MU, Xiaogang LIU, Angelo Homayoun ALL, Neuroprotective assessment of prolonged local hypothermia post-contusive spinal cord injury in rodent model, *The Spine Journal* (2017), https://doi.org/doi:10.1016/j.spinee.2017.10.066.

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ACCEPTED MANUSCRIPT

Neuroprotective Assessment of Prolonged Local Hypothermia 1 **Post-Contusive Spinal Cord Injury in Rodent Model** 2 3 Daniel TEH Boon Loong^{1∞}, Soo Min CHUA^{1∞}, Ankshita PRASAD², Ioannis 4 KAKKOS³, Wenxuan JIANG⁴, Yue MU⁵, Xiaogang LIU^{6**}, Angelo Homayoun ALL^{1,7*} 5 6 7 ¹Singapore Institute of Neurotechnology (SINAPSE), National University of Singapore, 28 8 Medical Drive, 5-COR, 117456, Singapore. 9 ²Department of Biomedical Engineering, National University of Singapore, E4, 4 Engineering 10 *Drive 3, 117583, Singapore.* 11 3 Department of Electrical and Computing Engineering, National Technical University of Athens, 12 Zografos, 15773, Athens, Greece. 13 ⁴Department of Biomedical Engineering, University of Southern California, Los Angeles, CA 14 90089 15 ⁵Department of Statistics and Applied Probability, National University of Singapore, Level 7, 16 Block S16,6 Science Drive 2, Singapore 117546 17 ⁶Department of Chemistry, National University of Singapore, 3 Science Drive 3, Singapore 18 117543, Singapore. Email: xiaogangliu@nus.edu.sg Tel: +65-6516 1352 Fax: +65-6779 1691 19 ⁷Department of Biomedical Engineering and Department of Neurology, John Hopkins School of 20 Medicine, 701C Rutland Avenue 720, Baltimore, MD 21205, USA. Tel: +410-502-5393 21 22 23 24 * Corresponding author 25 **Co-Corresponding author 26 27 E-mail: hmn@jhu.edu 28 29 30 $^{\infty}$ Both authors contributed equally. 31 32 All authors declared no conflict of interest 33 34 Acknowledgement 35 We would also like to thank Professor Anastasios Bezerianos (SiNAPSE Institute, 36 National University of Singapore) for discussion addressing the SEP analysis. 37 38

Page 1 of 25

1

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