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Induction of innervation by encapsulated adipocytes with engineered vitamin A metabolism

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## ACCEPTED MANUSCRIPT

Induction of innervation by encapsulated adipocytes with engineered vitamin A metabolism 1 Q. Shen<sup>1</sup>†, R. Yasmeen<sup>1</sup>†, J. Marbourg<sup>2</sup>, L. Xu<sup>3,,1</sup>, J. L. Yu<sup>4</sup>, P. Fadda<sup>5</sup>, A. Flechtner<sup>6</sup>, L.J. Lee<sup>7</sup>, P. G. Popovich<sup>2</sup>, 2 3 and O. Ziouzenkova<sup>1\*</sup>. 4 <sup>1</sup>Department of Human Sciences, The Ohio State University, Columbus, Ohio, 43210, USA. 5 <sup>2</sup>Center for Brain and Spinal Cord Repair, The Ohio State University, Columbus, OH 43210, USA; Department of 6 Neuroscience, Wexner Medical Center, The Ohio State University, Columbus, OH 43210, USA. 7 <sup>3</sup>Department of Minimally Invasive Surgery, The First Affiliated Hospital of Soochow University, Suzhou, Jiangsu, 8 China. 9 <sup>4</sup>Department of Statistics, The Ohio State University College of Medicine, Columbus, OH 43210, USA. 10 <sup>5</sup>Nucleic Acid Shared Resource, Comprehensive Cancer Center, The Ohio State University, Columbus, Ohio 11 43210, USA. 12 <sup>6</sup>Histology and Immunohistochemistry Laboratory, The Ohio State University, Columbus, Ohio, 43210, USA. 13 <sup>7</sup>Department of Chemical and Biomolecular Engineering, The Ohio State University, Columbus, Ohio, 43210, 14 USA. 15 † Both authors contributed equally to this work 16 17 To whom correspondence should be addressed: 18 \*Ouliana Ziouzenkova, PhD 19 1787 Neil Avenue, 331A Campbell Hall; Columbus, OH 43210 20 Email: ziouzenkova.1@osu.edu; Telephone: 001 614 292 5034; Fax: 001 614 292 8880 21 22 23 Running head: Encapsulated adipocytes improve innervation 24 25 26 27 The authors declare that they have no conflict of interests. 28 29 30 31 32 33

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