## Accepted Manuscript

Title: Dexmedetomidine promotes the recovery of neurogenesis in aged mouse with postoperative cognitive dysfunction

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PII: S0304-3940(18)30220-9

DOI: https://doi.org/10.1016/j.neulet.2018.03.043

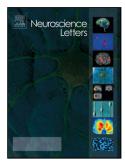
Reference: NSL 33502

To appear in: Neuroscience Letters

Received date: 14-8-2017 Revised date: 17-3-2018 Accepted date: 19-3-2018

Please cite this article as: Wen-Xiang Wang, Qiong Wu, Si-Si Liang, Xue-Kang Zhang, Qian Hu, Qiu-Hong Chen, Hai-Jin Huang, Lin Xu, Fo-Quan Lou, Dexmedetomidine promotes the recovery of neurogenesis in aged mouse with postoperative cognitive dysfunction, Neuroscience Letters https://doi.org/10.1016/j.neulet.2018.03.043

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### ACCEPTED MANUSCRIPT

**Title:** Dexmedetomidine promotes the recovery of neurogenesis in aged mouse with postoperative cognitive dysfunction

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#### Highlights:

- Dexmedetomidine prevented postoperative cognitive decline (POCD) following surgery in aged mice with promoted neurogenesis and decreased inflammatory response
- The brain derived growth factor (BDNF), phosphorylated cAMP response element binding protein (CREB) and proteins of kinase A (PKA) and p38-MPAK production could be the crucial factors in this process

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