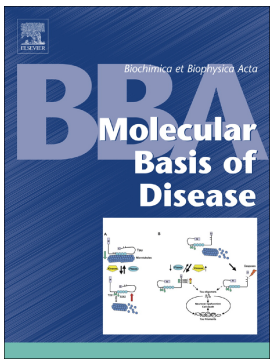

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Title page

PD-L1 confers glioblastoma multiforme malignancy via Ras binding and Ras/Erk/EMT activation

Xin Yao Qiu[1*], Dian Xing Hu[1*], Wen-Qiang Chen[2], Ruo Qiao Chen[3], Shi Rui Qian[3], Chun Yang Li[1], Yuan Jun Li[1], Xin Xin Xiong[1], Di Liu[4], Feng Pan[4], Shang Bin Yu[1], Xiao Qian Chen[1]

[1]Department of Pathophysiology, School of Basic Medicine, Tongji Medical College; Institute of Brain Research; Key Laboratory of Neurological Diseases, Ministry of Education; Hubei Provincial Key Laboratory of Neurological Diseases; Huazhong University of Science and Technology, Wuhan 430030, China

[2]Program in Cellular and Molecular Medicine, Boston Children's Hospital, Harvard Medical School, 200 Longwood Avenue, Boston, MA 02115, USA

[3]School of Basic Medicine, Tongji Medical College; Huazhong University of Science and Technology, Wuhan 430030, China

[4]Department of Urology, Union Hospital, Tongji Medical College, Huazhong University of Science and Technology, Wuhan 430022, China

Correspondence to: Xiao Qian Chen, Ph.D., Professor, Hangkong Road 13, Wuhan 430030, China. Phone: +86-18571731233; Fax: +86-27-83694226; E-mail: chenxq@mails.tjmu.edu.cn

[*]These authors contributed equally to the work.

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Running title: PD-L1/Ras interaction promotes GBM development