Open Access

Correction to: Chemopreventive effect of Betulinic acid via mTOR -Caspases/Bcl2/Bax apoptotic signaling in pancreatic cancer



Yangyang Guo, Hengyue Zhu, Min Weng, Cheng Wang^{*} and Linxiao Sun^{*}

Correction to: BMC Complement Med Ther 20, 178 (2020) https://doi.org/10.1186/s12906-020-02976-7

Following publication of the original article [1], the authors reported that a mistake in Fig. 1b and d and the group is not marked in Fig. 6b and d.

The original article [1] has been updated.

Published online: 26 April 2021

Reference

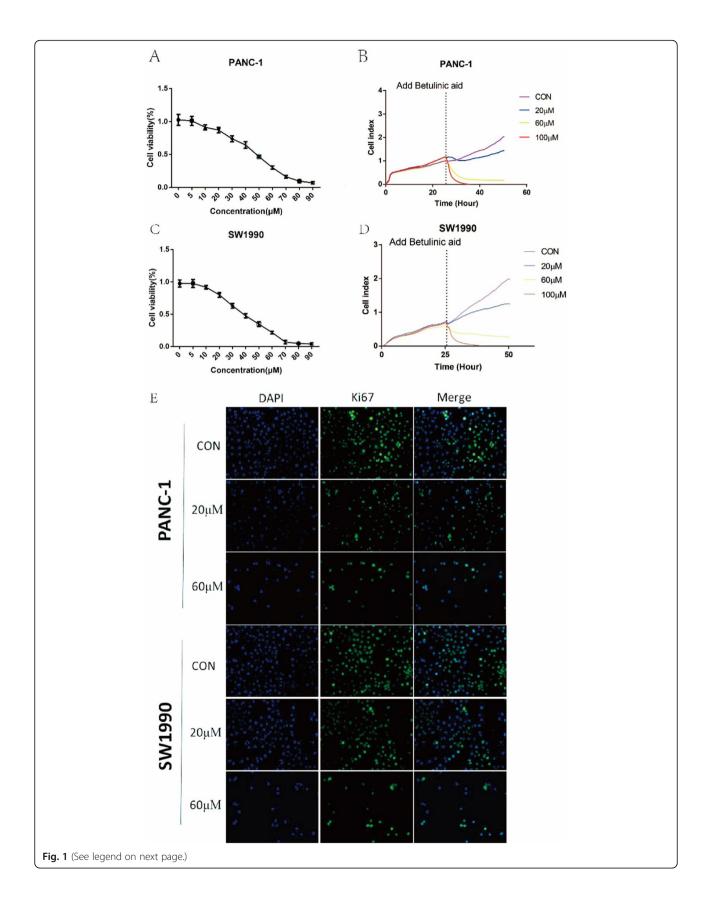
 Guo Y, Zhu H, Weng M, et al. Chemopreventive effect of Betulinic acid via mTOR -Caspases/Bcl2/Bax apoptotic signaling in pancreatic cancer. BMC Complement Med Ther. 2020;20:178 https://doi.org/10.1186/s12 906-020-02976-7.

The original article can be found online at https://doi.org/10.1186/s12906-020-02976-7.

* Correspondence: wangchengmandy@126.com; sunlinxiao@wmu.edu.cn Key Laboratory of Diagnosis and Treatment of Severe Hepato-Pancreatic Diseases of Zhejiang Province, Zhejiang Provincial Top Key Discipline in Surgery, Wenzhou Medical University First Affiliated Hospital, Wenzhou, Zhejiang, China



© The Author(s). 2021 **Open Access** This article is licensed under a Creative Commons Attribution 4.0 International License, which permits use, sharing, adaptation, distribution and reproduction in any medium or format, as long as you give appropriate credit to the original author(s) and the source, provide a link to the Creative Commons licence, and indicate if changes were made. The images or other third party material in this article are included in the article's Creative Commons licence, unless indicated otherwise in a credit line to the material. If material is not included in the article's Creative Commons licence and your intended use is not permitted by statutory regulation or exceeds the permitted use, you will need to obtain permission directly from the copyright holder. To view a copy of this licence, with http://creativecommons.org/licenses/by/4.0/. The Creative Commons Public Domain Dedication waiver (http://creativecommons.org/publicdomain/zero/1.0/) applies to the data made available in this article, unless otherwise stated in a credit line to the data.



(See figure on previous page.)

Fig. 1 Betulinic acid inhibits PANC-1 and SW1990 cells proliferation. CCK8 assay of PANC-1 (a) and SW1990 (c) cells incubated with 5 μM,10 μM, 20 μM, 30 μM, 40 μM, 50 μM, 60 μM, 70 μM, 80 μM, 90 μM. Betulinic acid or an equal volume of DMEM medium for 24 h. Label-free Real-time Cellular Analysis (RTCA) following PANC-1 (b) and SW1990 (d) cells incubated with betulinic acid (20 μM, 60 μM) or an equal volume of DMEM medium for 24 h. (e) Ki67 Immunofluorescence following PANC-1 and SW1990 cells incubated with betulinic acid (20 μM, 60 μM) or an equal volume of DMEM medium for 24 h.

