Author's response to reviews

Title: The involvement of AMPK/GSK3-beta signals in the control of metastasis and proliferation in hepato-carcinoma cells treated with anthocyanins extracted from Korea wild berry Meoru

Authors:

Song Yi Park (songyip3507@gmail.com)
Yun-Kyoung Lee (yunkyoung0225@gmail.com)
Won Sup Lee (lwshmo@hanmail.net)
Ock Jin Park (oipark@hnu.kr)
Young-Min Kim (kym@hnu.kr)

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Dear Editor:

The manuscript titled “The involvement of AMPK/GSK3-beta signals in the control of metastasis and proliferation in hepato-carcinoma cells treated with anthocyanins extracted from Korea wild berry Meoru” is submitted to your journal as a research paper for publication. This work has not been submitted or accepted for publication elsewhere. All the authors have agreed for submitting this work for publication.

We investigated the role of anthocyanins isolated from meoru in regulating cancer cell growth and metastasis, and the possible involvement of the AMPK-mediated GSK3#/#-catenin pathway. AMPK was found to be an important regulator of the translocation of #-catenin from the cytosol into the nucleus by activation of GSK3# to exert anti-growth and anti-metastatic activities with anthocyanins. We observed that the activation of AMPK by anthocyanins appeared to be essential for the regulation of GSK3#. We firstly suggested the regulation between AMPK and GSK3# signals in anthocyanin-treated cancer cells.

I sincerely hope that the manuscript is suitable for publication in your Journal. Please feel free to make any editorial changes, if necessary.

Best Wishes,

Young Min Kim, Ph.D.
Hannam University
Email: kym@hnu.kr