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FIGE: Reviewer Invitation for Integrative analysis of signaling pathways and diseases associated with the miR-106b/25 cluster and their function study in berberine-modulated multiple myeloma cells

1 message

Baohong Zhang <em@editorialmanager.com>

Fri, Apr 29, 2016 at 7:02 PM

Reply-To: Baohong Zhang <zhangb@ecu.edu>

To: Shicheng Guo <scguo@ucsd.edu>

CC: zhangb@ecu.edu

Dear Dr. Guo,

In view of your expertise I would be very grateful if you could review the following manuscript which has been submitted to Functional & Integrative Genomics.

Manuscript Number: FIGE-D-16-00007

Title: Integrative analysis of signaling pathways and diseases associated with the miR-106b/25 cluster and their function study in berberine-modulated multiple myeloma cells

Abstract: Berberine (BBR), a traditional Chinese herbal medicine compound, has emerged as a novel class of anti-tumor agent. Our previous miRNA microarray demonstrated that three miRNAs clusters (miR-99a/125b, miR-17/92 and miR-106b/25) were significantly down-regulated in BBR-treated MM cells. Here, systematic integration showed that miR-106b/25 cluster are involved in multiple cancer-related signaling pathways and tumorigenesis. miREnvironment database revealed that multiple environmental factors (drug, ionizing radiation, hypoxia) affected the miR-106b/25 cluster expression. By targeting the seed region in the miRNA, t-anti-miR-106b/25 cluster significantly induced suppression in cell viability and colony formation. Western blot validated that t-anti-miR-106b/25 cluster effectively inhibited phosphorylative MAPK signaling pathway in multiple myeloma cells. These finding indicated the miR-106b/25 cluster functioned as oncogene and might provide a novel molecular insight into multiple myeloma.

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In order to keep delays to a minimum, please accept or decline this invitation online as soon as possible.

If you have any questions, please do not hesitate to contact us. We appreciate your assistance.

With kind regards,
Baohong Zhang
Guest Editor

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