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Manuscript TUBI-D-15-02431 for review

1 message

Editorial Office Tumor Biology <em@editorialmanager.com> Mon, Aug 3, 2015 at 3:31 PM
Reply-To: Editorial Office Tumor Biology <angie.malanday@springer.com>
To: Shicheng Guo <scguo@ucsd.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 Tumor Biology.

Manuscript Number: TUBI-D-15-02431

Title: Green tea polyphenol EGCG suppresses osteosarcoma cell growth through upregulating miR-1

Abstract: (−)-Epigallocatechin-3-gallate (EGCG), the most abundant and active polyphenol in green tea, has been demonstrated to have anticancer effects in a wide variety of human cancer. MicroRNAs (miRNAs) are a class of short non-coding RNAs and play important role in gene regulation and are critically involved in the pathogenesis and progression of human cancer. This study aims to investigate the effects of EGCG on osteosarcoma (OS) cells and elucidate the underlying mechanism. Cellular function assays revealed that EGCG inhibited cell proliferation, induced cell cycle arrest and promoted apoptosis of OS cells. By miRNA microarray and RT-qPCR analysis, miR-1 was found to be significantly upregulated in MG-63 and U-2OS treated by EGCG in dose- and time-dependent manners, and miR-1 downregulation by inhibitor mimics attenuated EGCG-induced inhibition on cell growth of OS cells. We also confirmed that miR-1 was also frequently decreased in clinical OS tumor tissues. Moreover,
both EGCG and miR-1 mimic inhibited c-MET expression, and combination treatment with EGCG and c-MET inhibitor (Crizotinib) had enhanced inhibitory effects on the growth of MG-63 and U-2OS cells. Taken together, these results suggest that EGCG has an anticancer effect on OS cells, at least partially, through regulating miR-1/c-MET interaction.

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We hope you are willing to review the manuscript. If so, would you be so kind as to return your review to us within 14 days of agreeing to review? Thank you.

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

With kind regards,
James A. Radosevich, Ph.D.