Author’s response to reviews

Title: Vav3 oncogene activates estrogen receptor and its overexpression may be involved in human breast cancer.

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Author’s response to reviews:

Dr. Melissa Norton
Editor-in-Chief
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Dear Dr. Norton,

We are submitting our manuscript, entitled “Vav3 oncogene activates estrogen receptor and its overexpression may be involved in human breast cancer,” for publication in BMC Cancer. The authors are Kiwon Lee, Yin Liu, Jun Qin Mo, Jinsong Zhang, Zhongyun Dong, and Shan Lu. The current manuscript is to determine a role of Vav3 in breast cancer. We found that Vav3 oncogene is overexpressed in 81% of human breast cancer specimens and associated with poorly differentiated lesions. Vav3 stimulates breast cancer cell growth, activates estrogen receptor (ER), and potentiates EGF activity for cell growth and ER activation. Vav3 complexes with ER and enhances ER signaling axis. This novel finding suggests that Vav3 overexpression confers ER hypersensitivity and may be involved in breast cancer. We appreciate for your consideration.

Sincerely

Shan Lu, Ph.D.