Author's response to reviews

Title: Histological evaluation of AMPK signalling in primary breast cancer

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Version: 2 Date: 10 March 2009

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Dear Sir or Madam;

We are pleased to submit for your kind consideration this histological evaluation of AMPK signaling in primary breast cancer.

We have histologically evaluated one of the most interesting intracellular pathways that is a focus of the current research and drug development arenas. We have observed, for the first time, that AMP kinase (AMPK), and its established target Acetyl Coenzyme-A (ACC), is under-expressed in primary breast cancer, compared to their strong expression in normal breast tissues. The results were confirmed in a total of two large cohorts of breast cancer patients \( n=354 \). Moreover, reduced signaling of AMPK was significantly associated with tumour grade and axillary node metastasis. This is consistent with the current notion that AMPK activation may have a therapeutic potential in breast cancer.

We have chosen BMC cancer for our submission of this work because of its open access and success in publishing the most relevant and successful research in cancer.

We look forward to hearing from you.

Yours sincerely,

S Hadad
(For the authors)