Reviewer’s report

Title: Wnt/beta-Catenin Pathway Regulates ABCB1 Transcription in Chronic Myeloid Leukemia.

Version: 3 Date: 21 December 2011

Reviewer: Carlo CG Gambacorti-Passerini

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The MS is interesting but lacks important controls, and contains relevant inconsistencies.

- The aa report that "increased ABCB1 levels were described in the literature only in BC samples"; indeed in their "resistant samples" BC samples are overrepresented compared to "sensitive samples".

  while the data on b-cat involvement in the ABCB1 promoter are convincing, their biological relevance is not: - why LiCl works better on K562 cells, and siRNA x WNT1 instead is mostly ineffective in these cells? They should at a minimum use different GSK inhibitors and try to down regulated b-cat directly.

For these reason I think the MS in not acceptable in its present form.