

Manuscript no. HAEMATOL 2010/028605 entitled “ Overexpression of enhancer of zeste homolog 2 with trimethylation of lysine 27 on histone H3 in adult T-cell leukemia/lymphoma as a target for epigenetic therapy“

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Information about the contributions of each person named as having participated in the study

1) Guarantor(s), i.e., person(s) who is (are) responsible for the integrity of the work as a whole:
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2) Authors who participated in the conception of the study: Yasuaki Yamada, Yoshitaka Imaizumi, Kunihiro Tsukasaki, Hiroshi Mano, Victor Marquez and Shimeru Kamihira

3) Design & Methods. The following authors were responsible for specific investigations (please detail):

- Kunihiro Tsukasaki, Tomayoshi Hayashi, Katsunori Yanagihara, Yuji Moriwaki and Yasushi Miyazaki were responsible for collecting samples.
- Yasuaki Yamada made ATL cell lines used.
- Young Lim Choi and Hiroyuki Mano were responsible for microarray.
- Yoshitaka Imaizumi was responsible for analysis of the results of microarray.
- Daisuke Sasaki, Hiroo Hasegawa, Katsunori Yanagihara and Shimeru Kamihira were responsible RT-PCR analysis.
- Daisuke Sasaki and Hiroo Hasegawa were responsible for Western blot analysis.
- Akemi Osaka was responsible for immunohistochemistry.
- Hiroo Hasegawa, Yuji Moriwaki, Victor Marquez and Yasuaki Yamada were responsible for cell culture assay.

4) Results. The following authors were responsible for specific portions of the results, including figures and tables (please indicate the person responsible for each figure and each table):

- Daisuke Sasaki was responsible for Table 1.
- Yoshitaka Imaizumi, Kunihiro Tsukasaki, Yasushi Miyazaki, Young Lim Choi and Hiroyuki Mano were responsible for Figure 1.
- Daisuke Sasaki, Hiroo Hasegawa, Katsunori Yanagihara, Yasuaki Yamada and Shimeru Kamihira were responsible for Figure 2 and Supplementary Figures 1, 2, 3, 4.
- Daisuke Sasaki and Hiroo Hasegawa were responsible for Figure 3.
- Akemi Osaka and Tomayoshi Hayashi were responsible for Figure 4.
- Daisuke Sasaki was responsible for Figure 5.

- Hiroo Hasegawa, Kunihiro Tsukasaki, Yuji Moriwaki, Victor Marquez and Yasuaki Yamada were responsible for Figure 6.

5) **Writing the manuscript.** The following authors were responsible for writing the manuscript:

- Yasuaki Yamada, Hiriyoyuki Mano and Victor Marquez were responsible for writing the manuscript.

6) **Contributors Listed in Acknowledgments:** (Examples of those who might be acknowledged include a person who provided purely technical help, writing assistance, or a department chair who provided only general support. Corresponding authors must declare whether they had assistance with the study design, data collection, data analysis, or manuscript preparation. If such assistance was available, the authors must disclose the identity of the individuals who provided this assistance and the entity that supported it. Financial and material support should also be acknowledged.)

Sayaka Mori and Yuko Doi provided technical help.