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Article

Supplementary Materials: Mercury Chloride Impacts on the Development of Erythrocytes and Megakaryocytes in Mice

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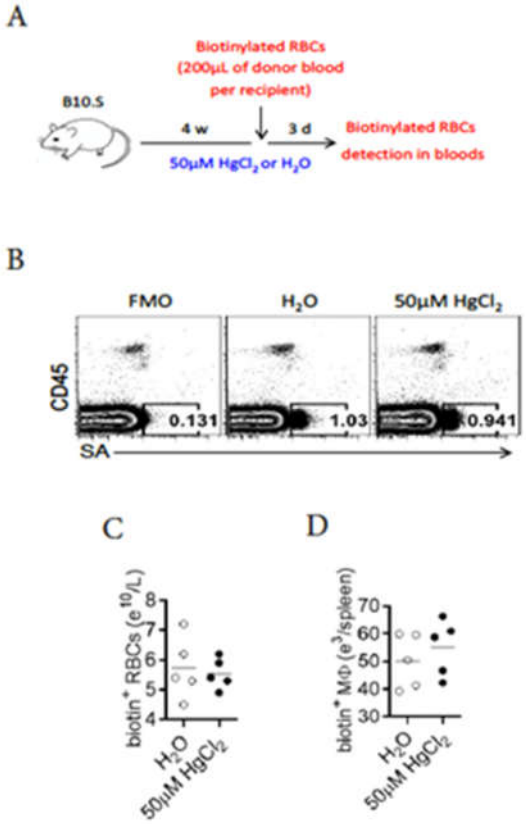

Figure S1. $HgCl_2$ does not impact the clearance of erythrocytes in B10.S mice**.** Biotinylated RBCs from regular B10.S mice were intravenously injected into control or 50 μM $HgCl_2$-treated B10.S mice, and the clearance of the biotinylated (biotin$^+$) RBCs was measured thereafter. **A:** A schematic model for RBC clearance detection. **B:** Representative flow plots for the donor (biotinylated) RBCs in the peripheral blood of recipients. **C:** Absolute number of donor RBCs as indicated in **A** and **B**. **D**: Quantification of biotin$^+$ MΦ in the spleen of recipients as indicated in **A**. Each dot represents one mouse, and a total of 5 mice were used for each group. $p < 0.05$ was considered as the level of significant difference.

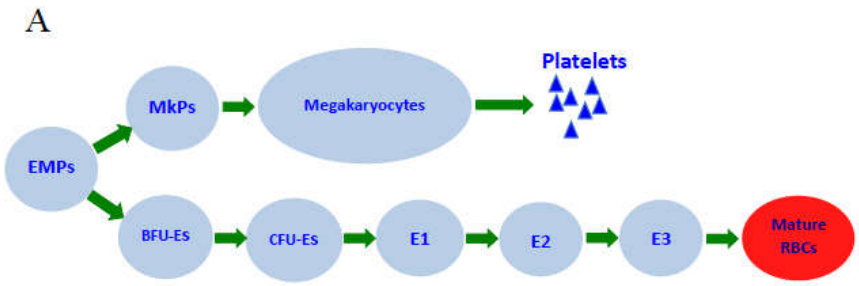

Figure S2. A schematic model for erythro-megakaryopoiesis.

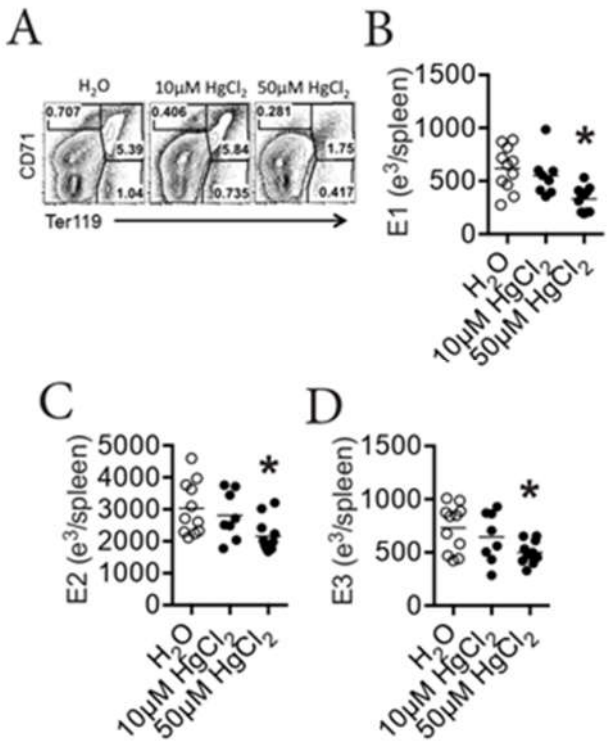

Figure S3. $HgCl_2$ reduces the number of erythroblasts in the spleen of B10.S mice**.** B10.S mice were treated with 10 μM or 50 μM $HgCl_2$ for 4 w and the number of erythroblasts (E1, E2 and E3) in the spleen was performed thereafter. A: Representative flow plots for E1, E2 and E3 in the spleen. B: Quantification of E1 in the spleen as indicated in A. C: Quantification of E2 in the spleen as indicated in A. D: Quantification of E3 in the spleen as indicated in A. Each dot represents one mouse, and a total of 8 to 11 mice were used for each group. Asterisk indicates a significant difference compared to the counterpart control group. $p < 0.05$ was considered as the level of significant difference.

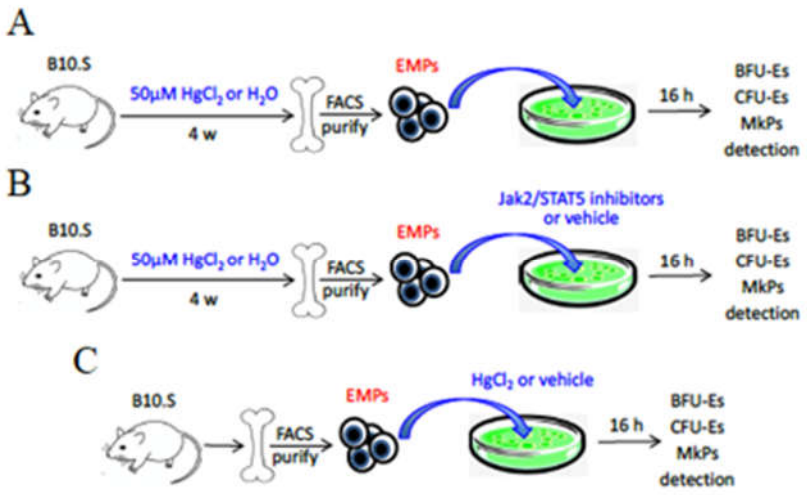

Figure S4. Schematic models for in vitro assays. **A**: A schematic model for EMP differentiation assay in vitro. **B**: A schematic model for evaluating the role of the Jak2/STAT5 signaling pathway in EMP differentiation during $HgCl_2$ exposure. **C**: A schematic model for EMP differentiation in the presence or absence of $HgCl_2$ in vitro.