Reviewer's report

**Title:** Characterization of a murine model of monocrotaline pyrrole-induced acute lung injury

**Version:** 2  **Date:** 15 April 2008

**Reviewer:** Yoshihiro Fukumoto

**Reviewer's report:**

This manuscript shows that monocrotaline pyrrole induces acute lung injury in mice, which might be useful as a model of acute respiratory failure and fibrosis. Monocrotaline pyrrole can induce pulmonary hypertension in rats but not in mice. Although this is an interesting paper, there are some minor problems.

The aim of the present study was to establish a murine model of pulmonary hypertension; however, monocrotaline pyrrole induced acute lung injury in mice. Moreover, the most of results are from mice of acute injury, although monocrotaline pyrrole induces pulmonary hypertension in rats.

Overall, the context is confusing. The authors should write more clearly regarding the differential effects of monocrotaline pyrrole on mice and rats. Also, the authors should show more data of rat MCTP model.

**Introduction section:**
Page 2, para 1, line 1.

“Idiopathic pulmonary hypertension (IPAH)” should be “Idiopathic pulmonary arterial hypertension (IPAH)”.

**Results section:**
Page 9, para 1.

The authors should include the data of right ventricular systolic pressure in Figure 1.

Figure 1. What is “Dehydromonocrotaline”? MCTP?

Figures 1, 2, 4, 5-7. The authors should include the number of animals.

There are some extra blanks in the text, such as “5 g/kg”.

**Level of interest:** An article of limited interest

**Quality of written English:** Acceptable

**Statistical review:** No, the manuscript does not need to be seen by a statistician.
Declaration of competing interests:

I declare that I have no competing interests.