**Supplemental Tables and Figures**

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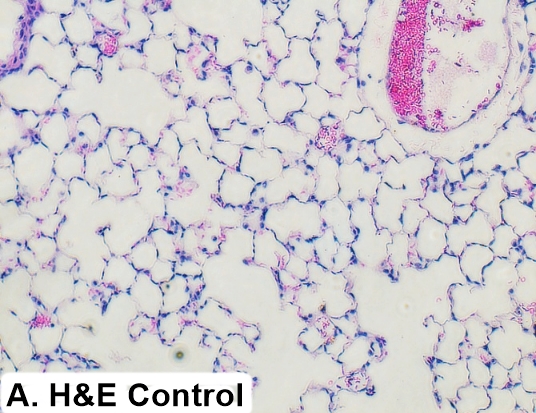
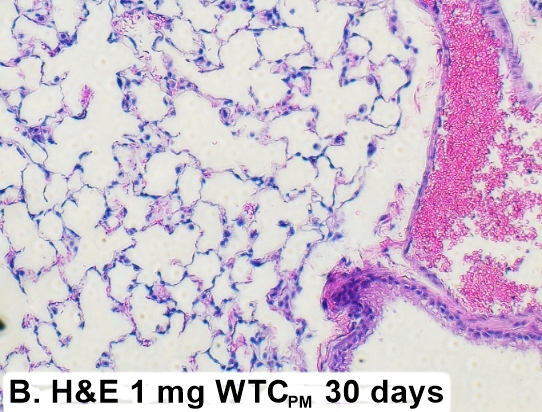
**Supplemental Figure 1. Percent (%) polymorphonuclear neutrophil (PMN) influx comparisons in (A) nasal lavage fluid (NLF) and (B) bronchoalveolar lavage fluid (BALF) of WTCexposed C57BL/6 mice.** Reported values are averages of individually measured lavage samples ±SEM with n=5-7. Asterisks (\*) indicate a statistically significant difference from control values (p<0.05); (#) indicate a statistically significant difference between treatment group values (p<0.05).

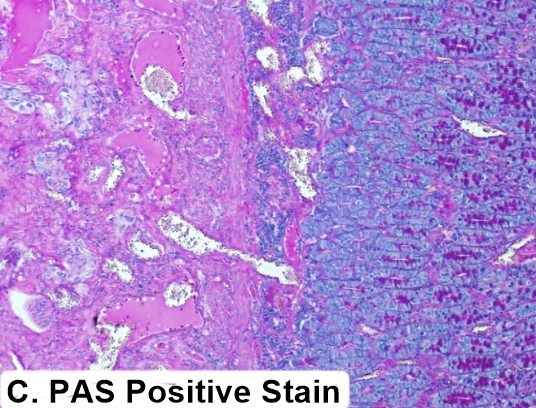
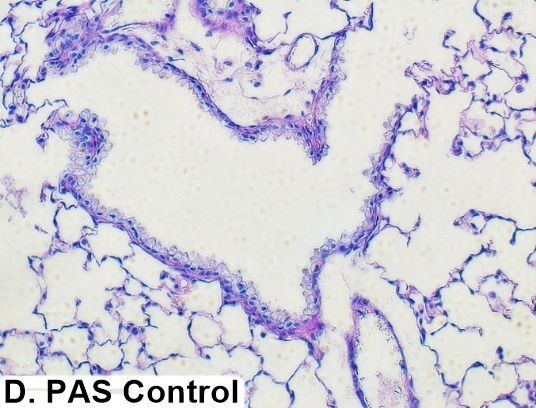


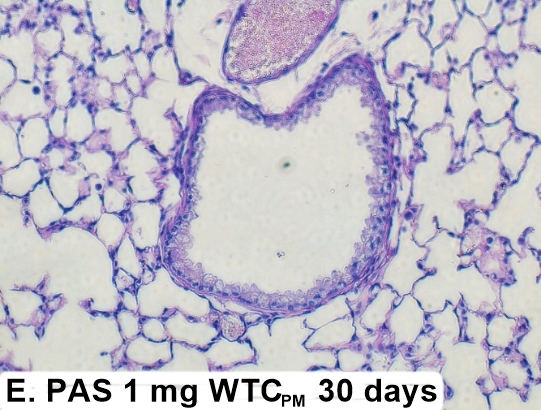
**Supplemental Figure 2. Whole lung wet/dry ratios after a single WTCPM treatment 24 hours post-exposure and post-30 days recovery**. Values are means ± SEM with n=3/group. Asterisks (\*) indicate a statistically significant difference from control values (p<0.05).



**Supplemental Figure 3. BALF trypan blue macrophage viability assessment.** BALF macrophage evaluation in mice exposed to 1000 µg WTCPM 30 days post-exposure. Values are means ± SEM with n=7/group. Asterisks (\*) indicate a statistically significant difference from control values (p<0.05).



**Supplemental Figure 4. Histological stain comparisons in mouse whole lungs 30 days post-exposure.** A&B) H&E stain comparisons for inflammation and fibrosis in control and WTCPM exposed mice. C) Periodic acid–Schiff–diastase (PAS) positive control stain for muco-substances. D&E) PAS staining in control and 1 mg WTCPM exposed mice; x100 magnification.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Lung** | **Stain** | **Control 30d** | **Control 30d** | **Control 30d** | **1 mg 30d** | **1 mg 30d** | **1 mg 30d** |
| **Inflammation** | H&E | 0 | 1 | 1 | 2 | 1 | 1 |
| **Mucus** | PAS | 0 | 0 | 0 | 0 | 0 | 0 |
| **Fibrosis** | H&E | 0 | 0 | 0 | 0 | 0 | 0 |

**Supplemental Table 1. Histopathologic semi-quantitative evaluation of mouse lungs 30 days post-exposure.** N/0= Normal; 1= Minimal; 2= Mild; 3= Moderate; 4=Severe





**Supplemental Figure 5. ICP-MS insoluble elemental trace analysis evaluation in WTCPM exposed whole heart tissues.** Single exposures were evaluated 24 hours and 30 days post-exposure. Reported values are averages of individually measured samples ±SEM with n=3-5. Asterisks (\*) indicate a statistically significant difference from control vehicle values (p<0.05).



**Supplemental Figure 5 cont. ICP-MS insoluble elemental trace analysis evaluation in WTCPM exposed whole heart tissues.** Single exposures were evaluated 24 hours and 30 days post-exposure. Reported values are averages of individually measured samples ±SEM with n=3-5. Asterisks (\*) indicate a statistically significant difference from control vehicle values (p<0.05). <LOD indicates below the limit of detection.





**Supplemental Figure 6. ICP-MS soluble elemental trace analysis evaluation in WTCPM exposed heart tissues.** Single exposures were evaluated 24 hours and 30 days post-exposure. Reported values are averages of individually measured samples ±SEM with n=3-5. Asterisks (\*) indicate a statistically significant difference from control vehicle values (p<0.05).