



Supplemental figure

**Supplemental figure legend** - Histological organization of the thyroid (Hematoxylin-Eosin stain - Scale bar: 25  $\mu$ m). Mice groups (7 mice/group) are: controls, CdCl<sub>2</sub> plus vehicle, CdCl<sub>2</sub> plus Se 0.2 mg/kg, CdCl<sub>2</sub> plus Se 0.4 mg/kg, CdCl<sub>2</sub> plus MI, CdCl<sub>2</sub> plus MI plus Se 0.2 mg/kg, CdCl<sub>2</sub> plus MI plus Se 0.4 mg/kg, resveratrol (20 mg/kg). A: Control mice have normal thyroid structure, as demonstrated also by bar A in I and L. B: CdCl<sub>2</sub>-treated mice show small follicles and less stainable follicular epithelium (thyrocytes), the height of which is increased, as shown by bar B in I and L. C-D: In mice treated with CdCl<sub>2</sub> plus 0.2 mg/Kg Se or CdCl<sub>2</sub> plus 0.4 mg/kg Se, small follicles are present with thyrocytes of smaller height, as indicated by bars C and D in I and L. E: In mice treated with CdCl<sub>2</sub> plus MI, the follicles and thyrocytes show a tendency to acquire the normal size and height, even though both indices are significantly different from controls; see also bar E in I and L. F-G: In mice treated with CdCl<sub>2</sub> + MI + 0.2 mg/Kg Se or CdCl<sub>2</sub> + MI + 0.4 mg/kg Se, follicles and the epithelial cells were close to normal, as demonstrated by bars F and G in in I and L. H: In mice treated with CdCl<sub>2</sub> plus resveratrol, the follicles show an increased size and thyrocytes a reduced height, being both indices significantly different from controls, as shown also by bar H in I and L histograms. I - Mean  $\pm$  standard error values of follicular area in the different groups of mice. L - Mean  $\pm$  standard error values of epithelial cells height in the different groups of mice.

\*  $p < 0.05$  versus control; §  $p < 0.05$  versus CdCl<sub>2</sub> plus vehicle and CdCl<sub>2</sub> plus 0.2 or 0.4 mg/kg Se; †  $p < 0.05$  versus CdCl<sub>2</sub> plus MI alone;  $\neq$   $p < 0.05$  versus CdCl<sub>2</sub> + MI + 0.2 mg/Kg Se and CdCl<sub>2</sub> + MI + 0.4 mg/kg Se.