

Supporting Information

Metabolomics analysis of rabbit plasma after ocular exposure to vapors of sulfur mustard

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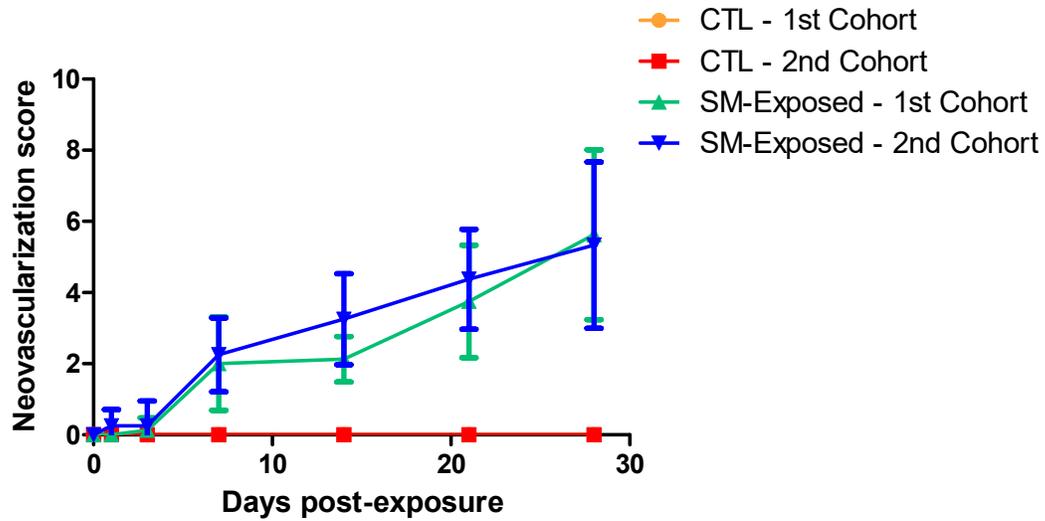
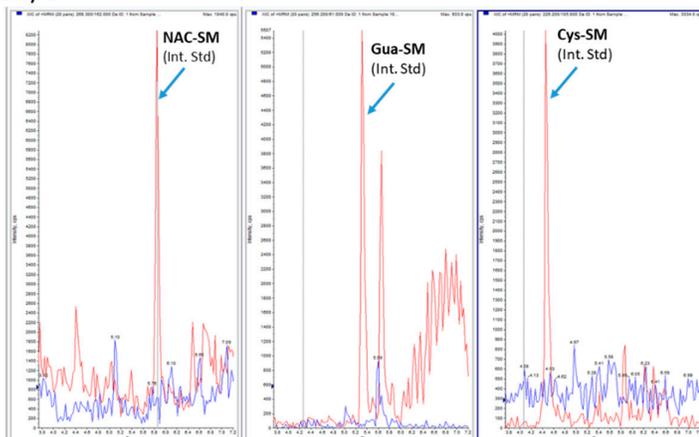
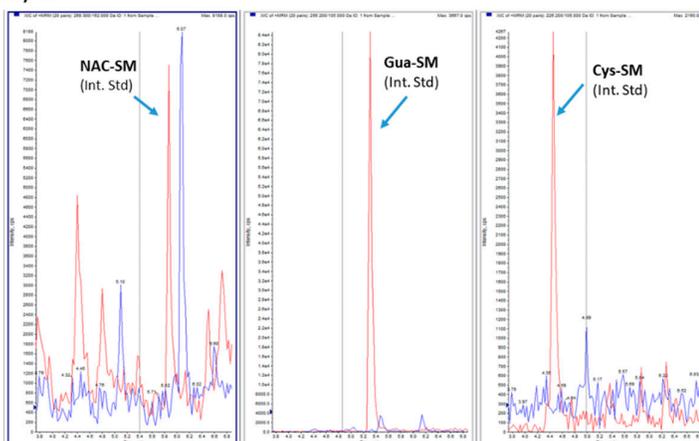


Figure S1. Temporal evolution of eye neovascularization in control and SM-exposed rabbits from cohorts 1 and 2. Neovascularization score (as a percentage) was obtained from the ratio between the length of the neovessel and the radius of the cornea (divided into 4 quarters), both were measured using ImageJ Fiji software. Scores (percentage) ranged from 0 (no neovascularization) to 4 (length greater than 75% of the radius of the cornea). The score for each quarter were then summed to obtain a single value per animal per day.

A) Day 1



B) Day 8



C) Day 21

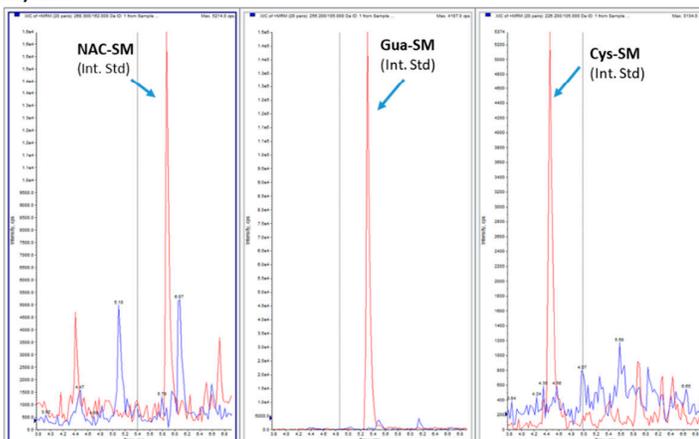


Figure S2. Targeted analysis using HPLC-MS/MS of 2-hydroxyethyl-thioethyl-S-cysteine (Cys-SM), 2-hydroxyethyl-thioethyl-S-N-acetylcysteine (NAC-SM) and 2-hydroxyethyl-thioethyl-N7-guanine (Gua-SM) in the plasma of rabbits ocularly exposed to SM. Presented are representative chromatograms obtained at A) day 1, B) day 8 (B) and C) day 21 post-exposure. Blue and red traces correspond to

those of unlabeled and labeled species, respectively. The following multiple reaction monitoring (MRM) transitions 226 → 105, 268 → 162 and 256 → 105 were monitored for Cys-SM, NAC-SM and Gua-SM, respectively. The retention times of Cys-SM, NAC-SM and Gua-SM were 4.5 min, 5.9 min and 5.3 min under the HPLC conditions used, respectively.