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### JP8+100 Jet Fuel Toxicity: Proteomic Analysis

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**Abstract:** This final technical report describes the results of experiments that were undertaken to analyze the effect of JP8 jet fuel exposure by aerosol/vapor on quantitative and qualitative gene expression in rodent tissues. The stated objectives were to 1) generate gene expression databases for some of the major rodent target tissues, 2) identify as many of the affected gene products as possible, and 3) apply the observed molecular alterations to elucidating JP8's multifaceted toxicity. As a result of our efforts we have determined that both acute and chronic JP8 exposure significantly alters protein expression in a range of target organs, even after a period of recovery, and that these changes correspond to histological observations in those organs. Furthermore, the protein alterations observed in rats and mice are suggestive of potential hazard when extrapolated to humans.

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