

Presentation 4 – Lea Steele

**Gulf War Exposures and Dysregulation of
CNS Inflammatory Processes:**

Research Previously Considered

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Research Previously Considered

- **LRRI:** low-level sarin effects on cholinergic receptors, cytokines, immune measures, glucocorticoids
- **Duke:** sarin, exposure combinations: AChE levels, gene expression, ROS, GFAP, neuronal death, etc
- **New Mexico:** inhaled DU associated with glial activation; enhanced with nasal inflammation
- **EPA:** Particulates associated with microglial activation, ROS, proinfl cytokines, neuronal damage
(*Kuwaiti sand, oil fires, tent heaters, diesel*)
- **Vaccines:** Rook hypothesis, immune activation by adjuvants?



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