

## 2<sup>nd</sup> International conference on METABOLOMICS AND METABOLISM

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### Environmental triggers of Sjogrens Disease, another piece of the puzzle

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#### Abstract

Sjogren's Disease is a severe autoimmune disorder that affects the entire body progressively, traditionally known to cause dry eyes and dry mouth. Many theories have been proposed to try explaining its origins. I personally wrote about my opinion about the connection of this disease with the Epstein Barr virus, and how this microorganism immortalizes b cells, which cause the main damage all throughout the body. But what about environmental triggers. Many environmental triggers have been identified as related to autoimmune conditions, which include hydrazines, tartrazines, hair dyes, trichloroethylene, industrial emissions and hazardous wastes. Other possible associations include silica, mercury, cadmium, gold and L canavanine. During a construction there's everything from lighting to paints, caulking, and other sealants, to flooring, wiring, and insulation, they pour toxins into the air you breathe. These toxins can mimic hormones, disrupt fetal development, cause allergies and asthma and even cause cancer. So could there be an association between any of these chemicals and Sjogren's Disease? Why not? Let's start by underlying what an autoimmune disease really is. Normally, the immune system can tell the difference between foreign cells and your own cells. In an autoimmune disease, the immune system mistakes part of your body, like your joints or skin, as foreign. It releases proteins called autoantibodies that attack healthy cells. But the triggers are not only viruses or bacteria.

**Purpose:** to determine whether an environmental factor may be present and probably be the trigger of Sjogren's in patients with this disease.

**Materials and methods:** blood samples were taken from 12 patients with Sjogren's Disease and analyzed for chlorine, mercury, cadmium, gold, lead, asbestos, and arsenic.

**Results:** 3 of the patients were positive for silica, one for aspergillus. Something to be noted: these 3 patients had severe vascular involvement. It is known that silica nanoparticles interfere with proper blood coagulation.

**Conclusion:** Silica is a naturally occurring mineral contained in rocks, soils, and sands around the world. It is one of the most abundant minerals on the planet, comprising more than ninety percent of the earth's crust. During construction or renovation activities may generate dusts laden with silica particles, thereby presenting a potential exposure concern to construction workers and/or employees in the surrounding areas. There may very well be environmental factors that trigger or at least worsen Sjogren's disease.

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**Biography 1:**

Joseph P Reiss is a Director of Environmental Sciences at Certified Site Safety of NY, LLC.

He is also expert in bio toxins and mycotoxins. He is an indoor air quality expert with the training in and the understanding of how to correlate medical alignments and diagnoses to many indoor environmental conditions that trigger these medical issues.

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**Biography 2:**

Melchor Rodrigo is a World renowned Neuroscientist with countless publications in many scientific journals. He is the youngest physician Worldwide to be appointed Chair of MS in the World Congress of Controversies in Neurology in Varsovia, Madrid and London. He's the Discoverer of Lyme Disease in Argentina, which he wrote two ebooks about. He is a reviewer in three prestigious Medical Journals and both the Chair and the Keynote Speaker at the American Congress on Neurology and Neural Disease in June in NY. He's articles about Sjogrens Disease and PANDAS Disease has opened new insights into the understanding of their pathophysiology.

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