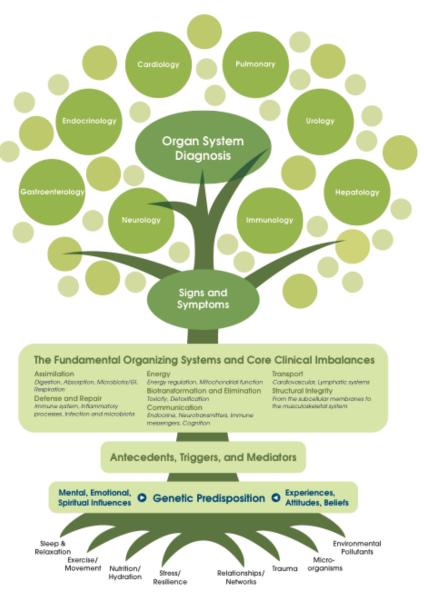
Nutrition and Toxicants in Autoimmune Disease: Implications for Prevention and Treatment

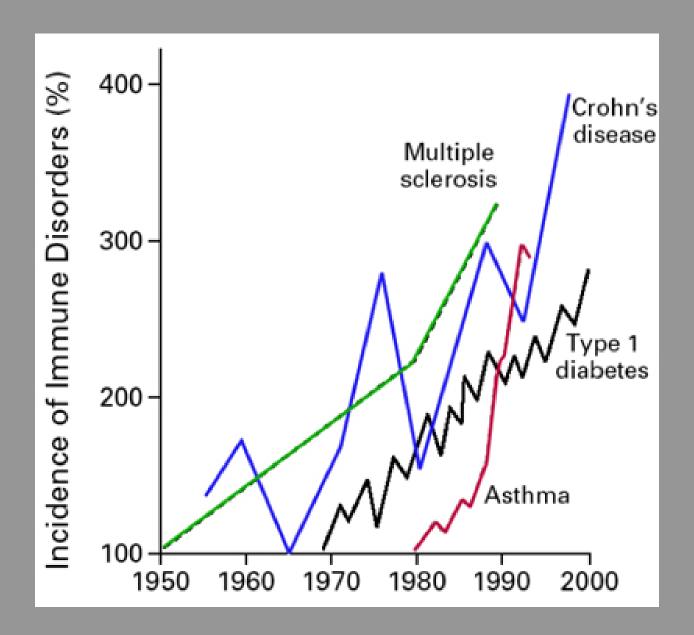
Collaborative on Health and the Environment June 17, 2014

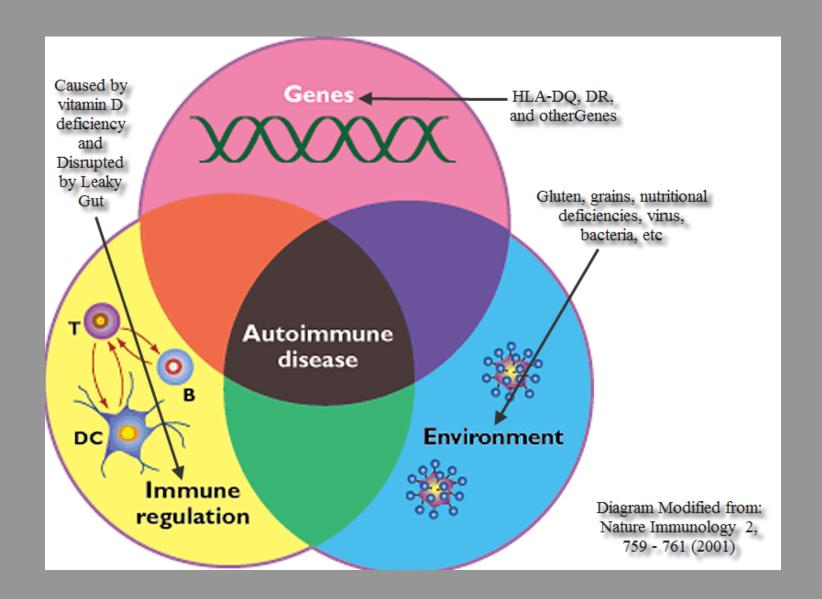
Cynthia Li, MD Berkeley, CA

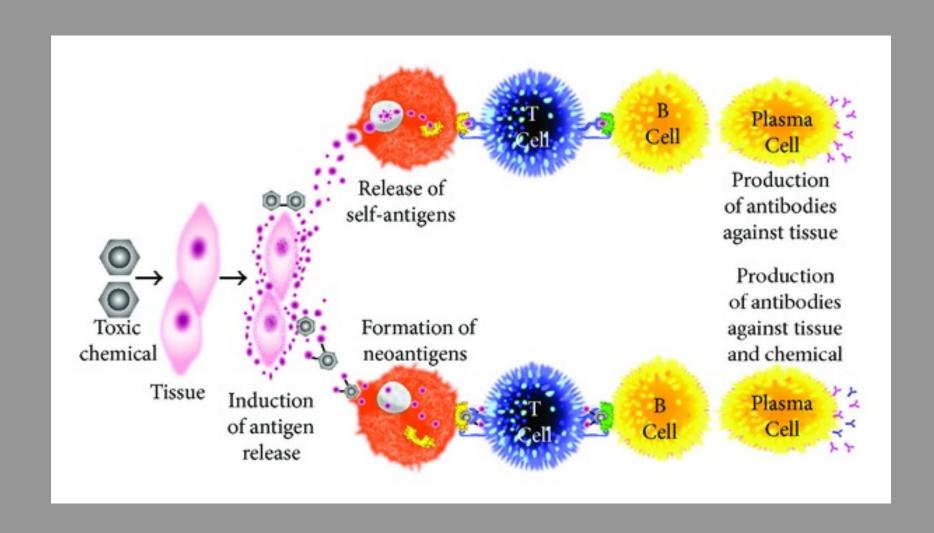


THE FUNCTIONAL MEDICINE TREE

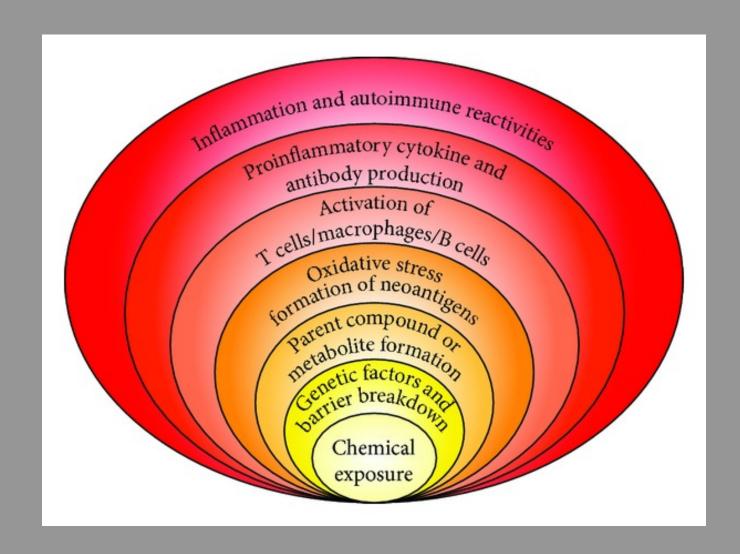




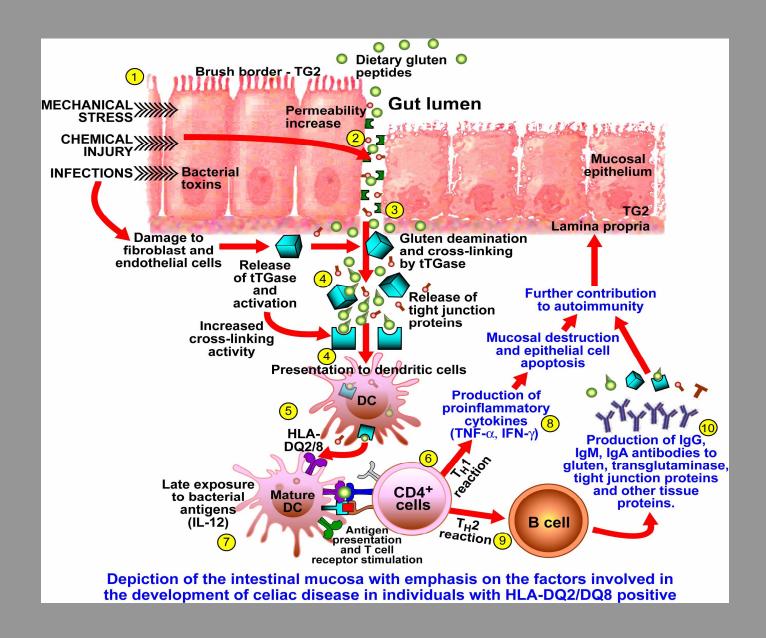


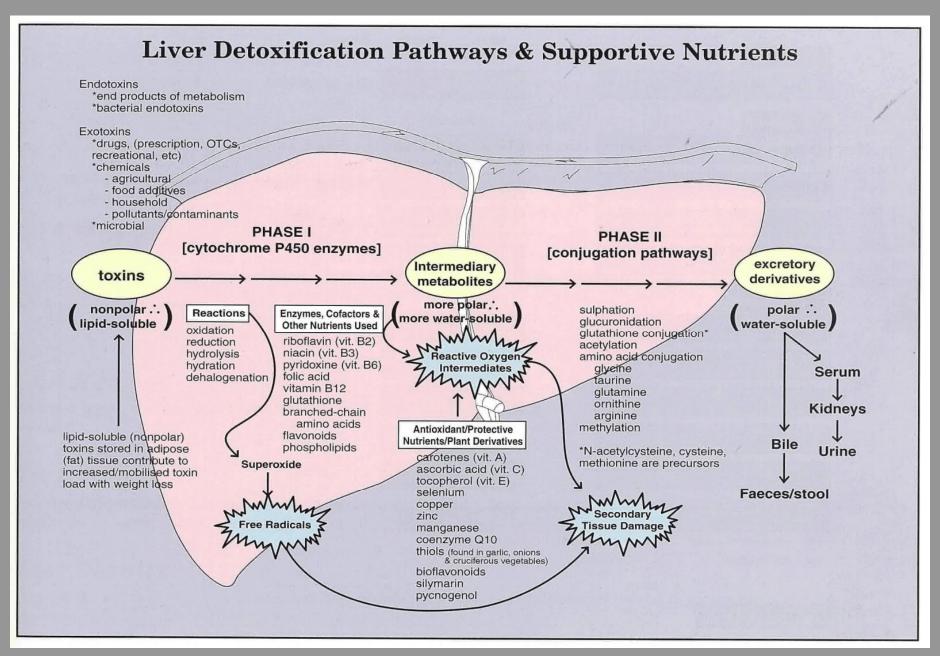


Vojdani, A. A Potential Link Between Environmental Triggers and Autoimmunity. *Autoimmune Dis*. Feb 2014



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Immune Boosting Foods

<u>Grapefruit</u>



Packed with vitamin C makes this an immune-boosting essential. They are packed with bioflavonoids, which are phytonutrients.

Cruciferous Vegetables



Rich in antioxidant vitamins which give an immune system boost, and also contain Choline which keeps your cells functioning properly and helps maintain healthy gastrointestinal

<u>Carrots</u>



A great source of beta carotene which support the body's mucus membrane, which lines the respiratory and intestinal tracts, making it harder for bacteria to enter the bloodstream.

<u>Cinnamon</u>



Cinnamon is an antiviral, antifungal, and antibacterial and an immune system booster. Itt actually fights the pathogens that cause illness.



Berries contain antioxidants responsible for the health of your immune system, as well as your body's ability to destroy invading bacteria and germs. They also contain vitamin C and that are essential in maintaining the strength and function of your immune system.

Mushrooms



A major source of the immune system-boosting mineral, zinc. If you don't have enough zinc in their diet tend to have fewer white blood cells to help fight off disease, which can magnesium, two nutrients lead to a reduced immune reponse.



Greens such as kale, spinach, and Swiss chard are immuneboosting foods that contain high levels of vitamin C, which help fight off infection and regenerate other antioxidants carotene, which helps fight in the body, including vitamin E. They also contain folate, another immune booster.

Watermelon



Contains antioxidant Vitamins A and C, which helps to neutralize free radicals than can lead to inflammation, general sickness and chronic illnesses such as stroke and heart attack. It contains betacancer, particularly colon cancer. Lycopene, a carotenoid found in in watermelon provides additional cancer fighting health benefits.

http://eatingmywaytobetterhealth.blogspot.com/



Case Presentation

Additional Resources

Functional Medicine: www.functionalmedicine.org

Toxicology of Autoimmune Diseases, Pollard:

www.ncbi.nlm.nih.gov/pmc/articles/PMC3076021/

A Potential Link Between Environmental Triggers and Autoimmunity, Vojdani:

www.ncbi.nlm.nih.gov/pmc/articles/PMC3945069

Autoimmunity and the Gut:

www.ncbi.nlm.nih.gov/pmc/articles/PMC4035413/#po.=6.52174-

Detoxification and Healing: The Key to Optimal Health, Dr. Sidney Baker, 2003