Casual Friday Series Immune Boost? When and why...Part 1 A Biogenetix Clinical Presentation

BIOGENETIX.COM



Disclaimer

- Information in this presentation is not intended, in itself, to diagnose, treat, reverse, cure, or prevent any disease. While this presentation is based on medical literature, findings, and text, The following statements have not been evaluated by the FDA.
- The information provided in this presentation is for your consideration only as a practicing health care provider. Ultimately you are responsible for exercising professional judgment in the care of your own patients.





Lifestyle + Genetics = Chronic Health IMPROVEMENT



Back in the Day: TH1 vs TH2

Intracellular

TH1

- Multiple sclerosis
- Hashimoto's
- Grave's
- Rheumatoid arthritis
- Lyme arthritis
- Psoriatic arthritis
- Contact dermatitis
- Type 1/1.5 diabetes
- Erythema nodosum
- Frequent spontaneous
 abortion
- Psoriasis
- Primary biliary cirrhosis
- Pulmonary sarcoidosis
- Crohn's disease
- Inflammatory bowel disease
- Etc.

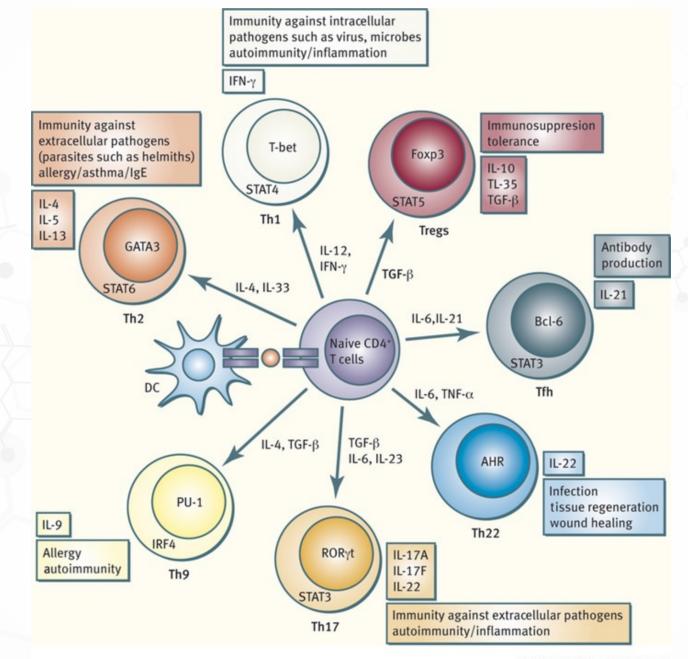


Extracellular



- Asthma
- A topic dermatitis
- Conjunctivitis
- Hyper eosinophilia
- Allergies
- Normal pregnancy
- Systemic lupus erythematosus
- Sclera derma
- Etc.







 Review
 > Cell Mol Immunol. 2010 May;7(3):182-9. doi: 10.1038/cmi.2010.22.

 Epub 2010 Apr 12.

The cytokine milieu in the interplay of pathogenic Th1/Th17 cells and regulatory T cells in autoimmune disease

Stewart Leung¹, Xuebin Liu, Lei Fang, Xi Chen, Taylor Guo, Jingwu Zhang

Affiliations + expand PMID: 20383174 PMCID: PMC4002916 DOI: 10.1038/cmi.2010.22



REVIEW ARTICLE

Front. Immunol., 31 March 2017 | https://doi.org/10.3389/fimmu.2017.00254

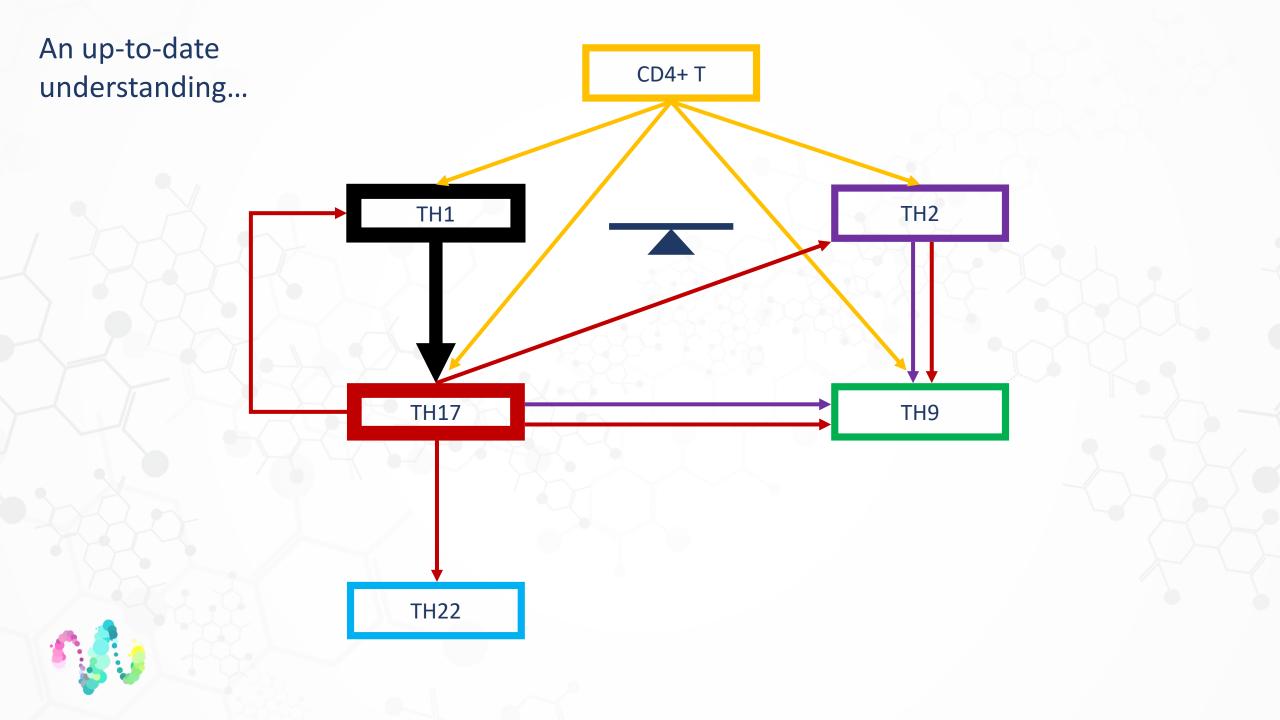


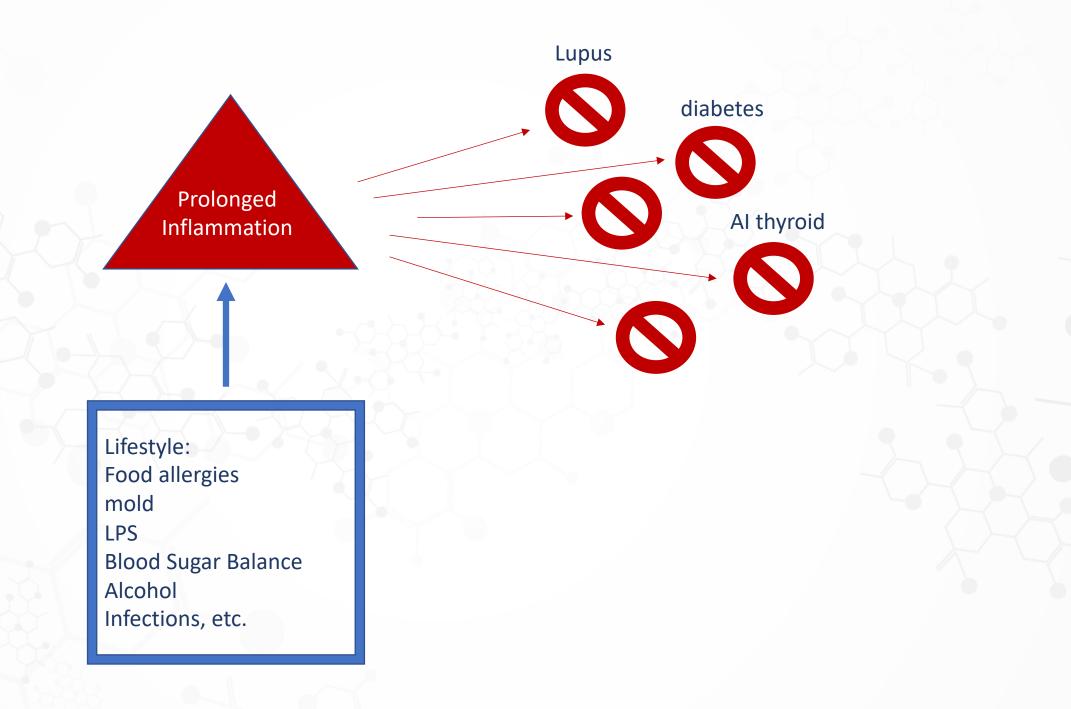
Cellular and Molecular Dynamics of Th17 Differentiation and its Developmental Plasticity in the Intestinal Immune Response

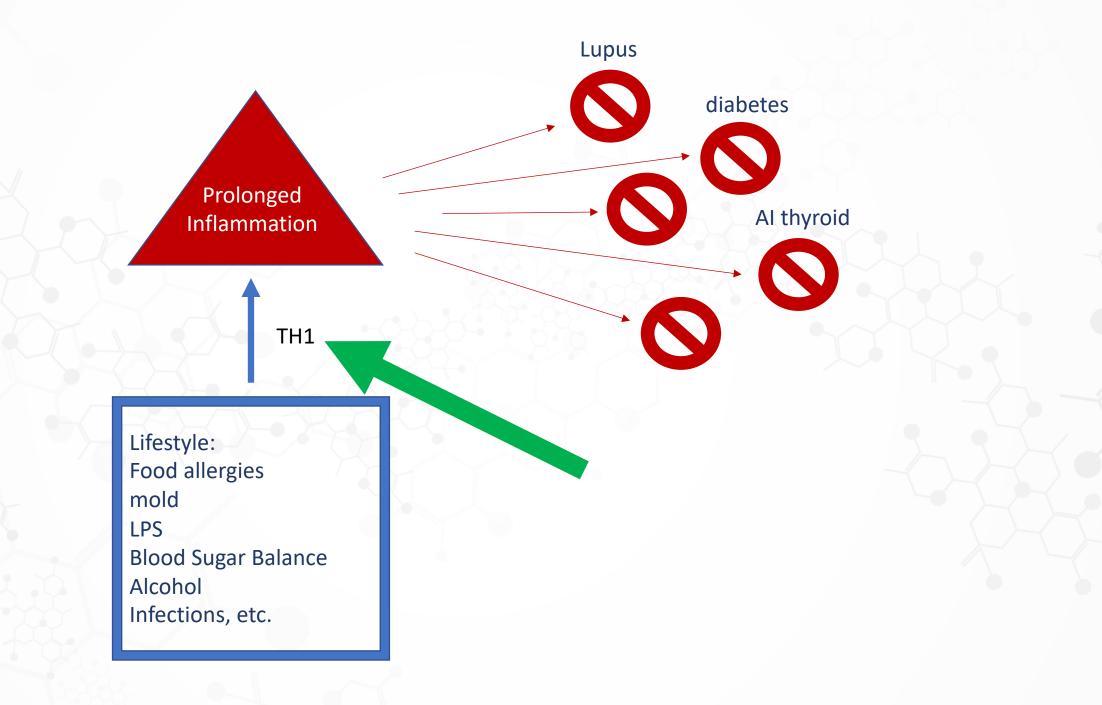
🔹 Suniti Bhaumik¹ and 🚊 Rajatava Basu^{2*}

¹Division of Anatomic Pathology, Department of Pathology, University of Alabama at Birmingham (UAB), Birmingham, AL, USA ²Division of Molecular and Cellular Pathology, Department of Pathology, University of Alabama at Birmingham (UAB), Birmingham, AL, USA

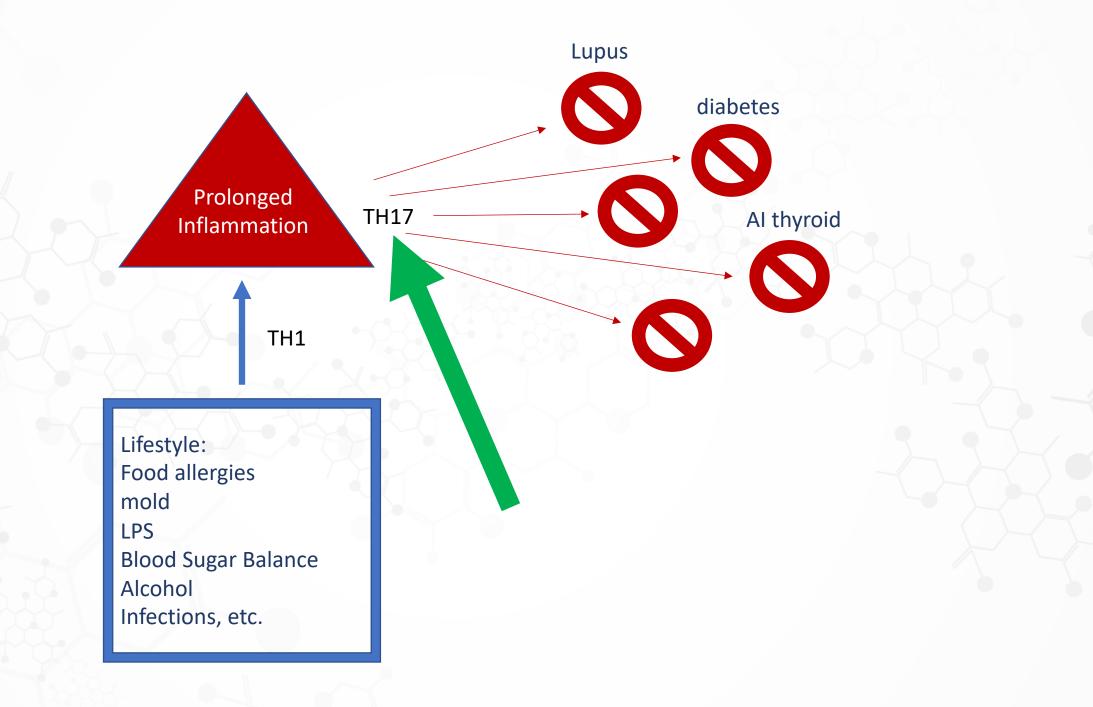


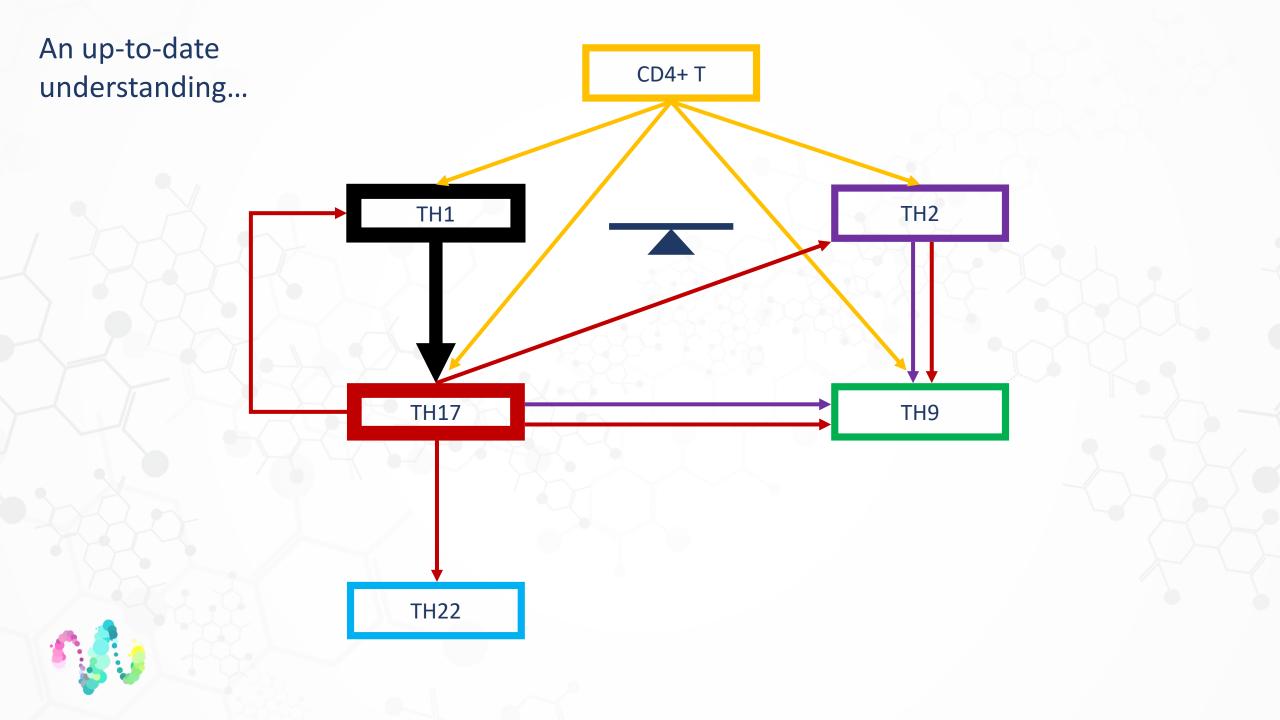


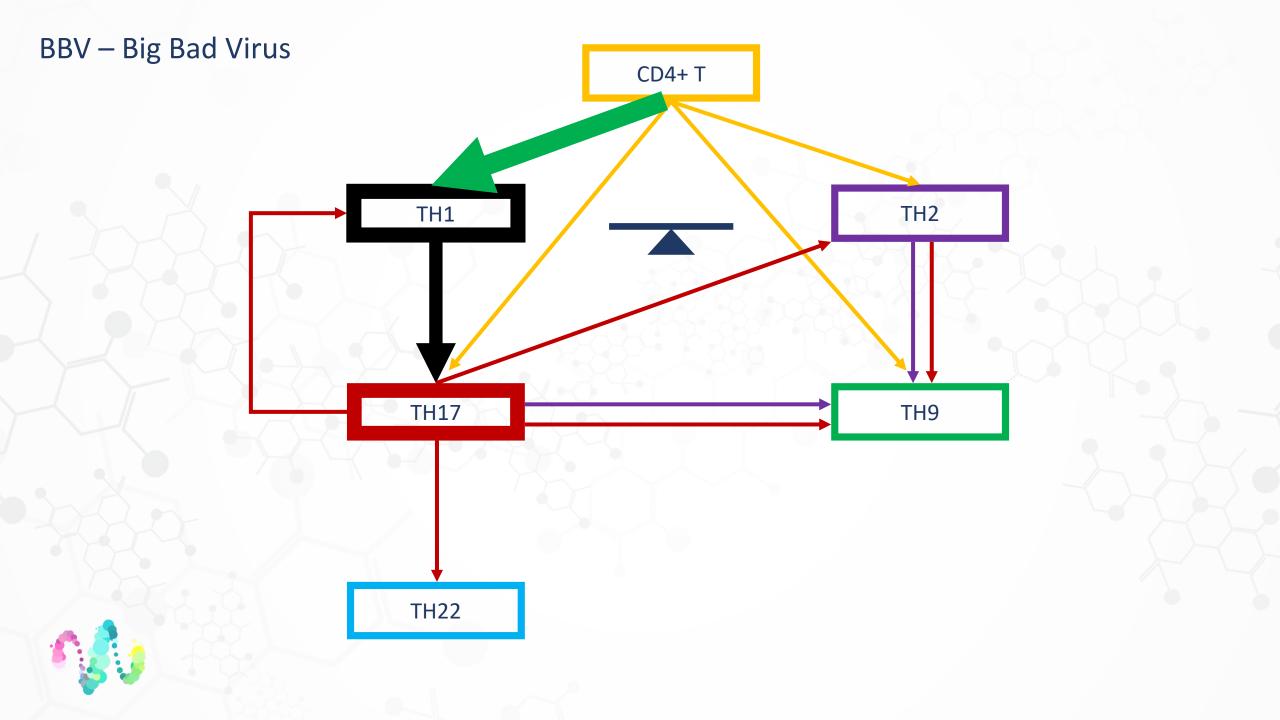


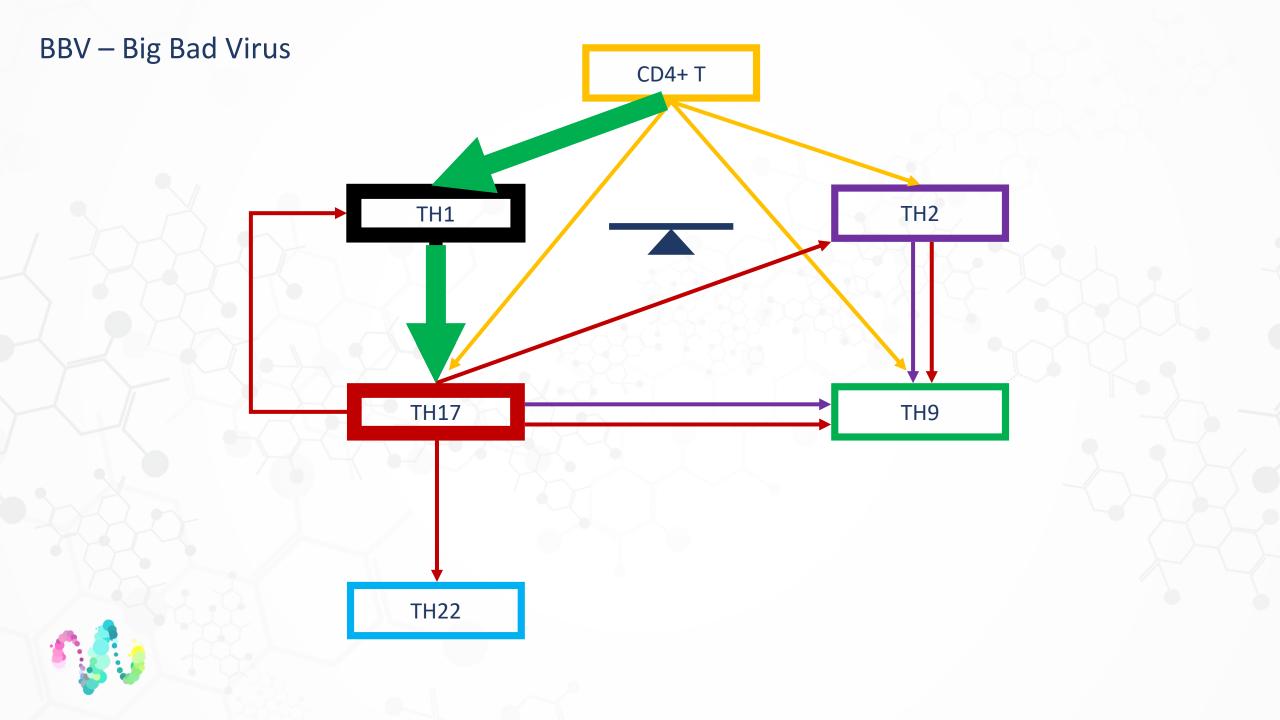


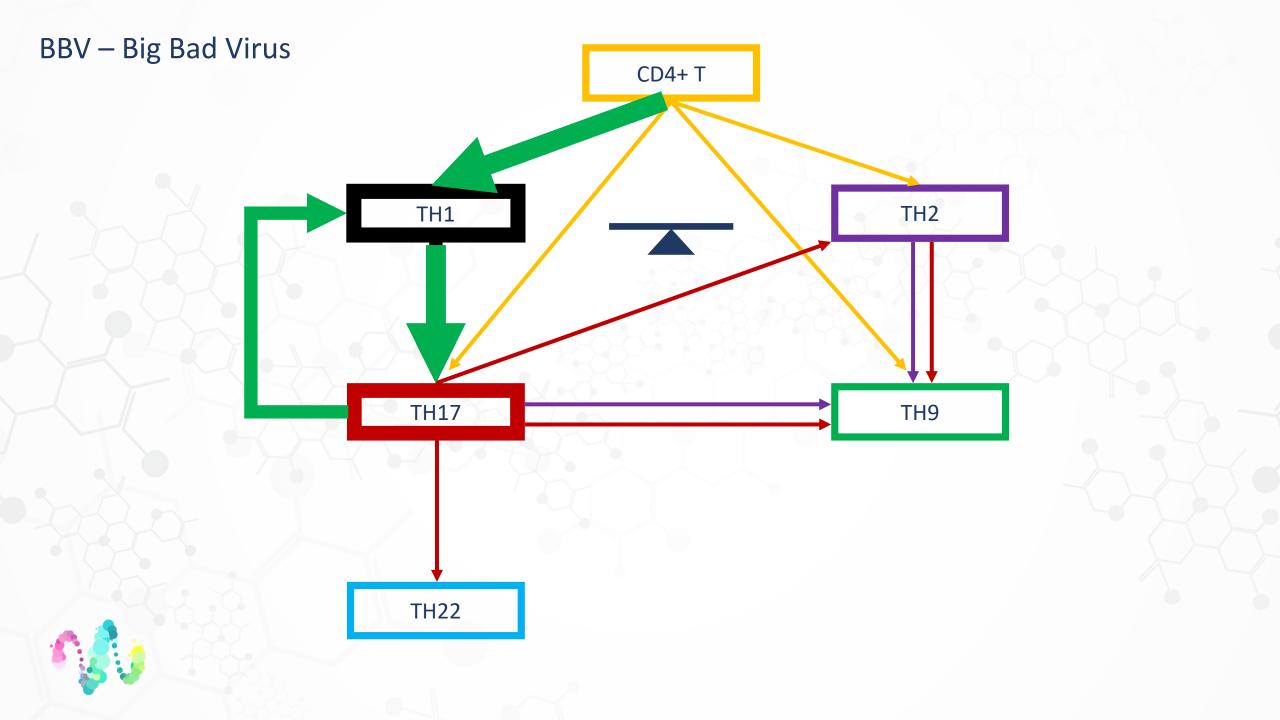
(3)

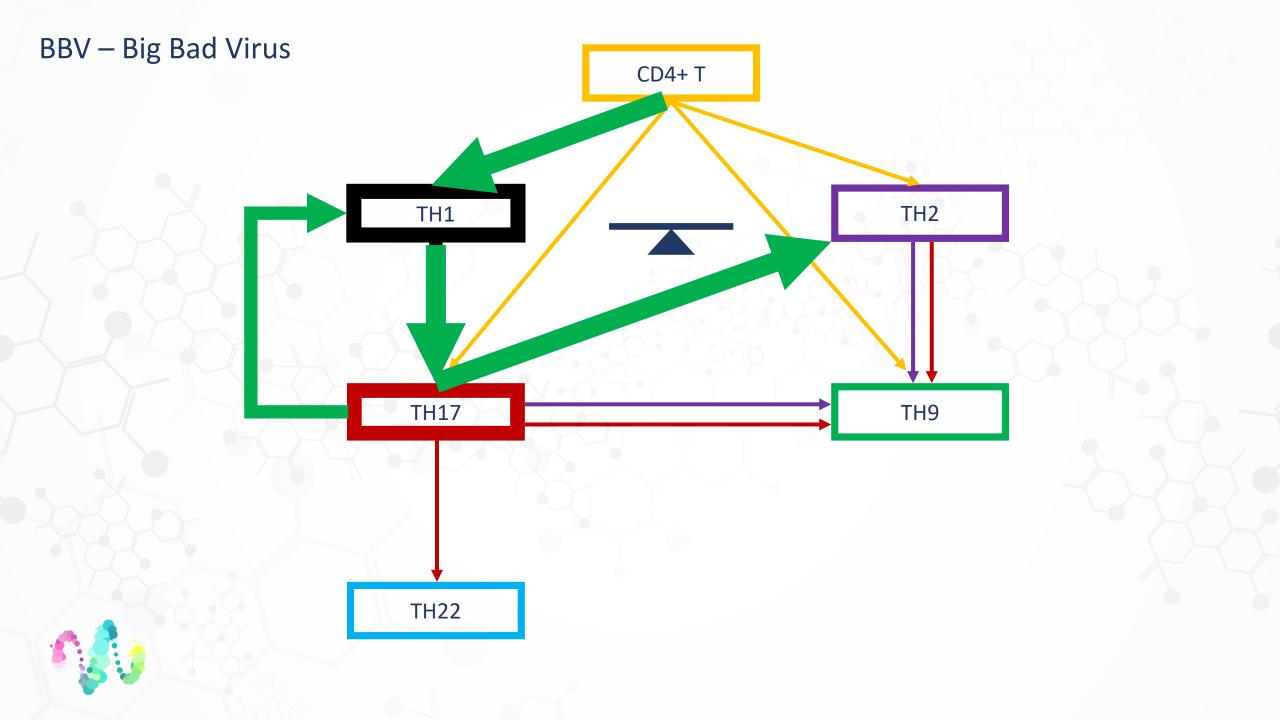


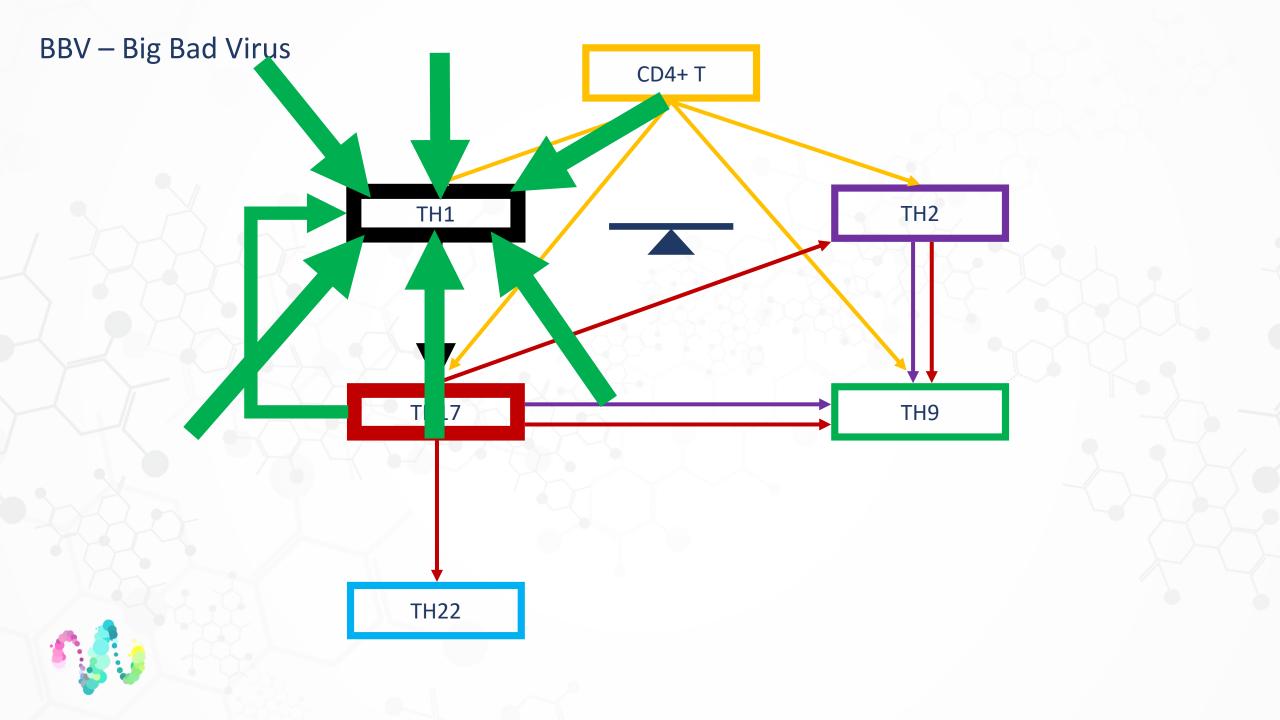












> Clin Exp Immunol. 1999 Apr;116(1):28-32. doi: 10.1046/j.1365-2249.1999.00870.x.

Immunomodulation by vitamin B12: augmentation of CD8+ T lymphocytes and natural killer (NK) cell activity in vitamin B12-deficient patients by methyl-B12 treatment

J Tamura ¹, K Kubota, H Murakami, M Sawamura, T Matsushima, T Tamura, T Saitoh, H Kurabayshi, T Naruse

Affiliations + expand PMID: 10209501 PMCID: PMC1905232 DOI: 10.1046/j.1365-2249.1999.00870.x



ORIGINAL RESEARCH article

Front. Immunol., 29 September 2017 | https://doi.org/10.3389/fimmu.2017.01239



Glutathione Fine-Tunes the Innate Immune Response toward Antiviral Pathways in a Macrophage Cell Line Independently of Its Antioxidant Properties

Marina Diotallevi¹, Paola Checconi², Anna Teresa Palamara^{2,3}, Ignacio Celestino³, Lucia Coppo⁴, Arne Holmgren⁴, Kahina Abbas⁵, Fabienne Peyrot^{5,6}, Manuela Mengozzi¹ and Pietro Ghezzi^{1*}

¹Brighton and Sussex Medical School, Brighton, United Kingdom

²Department of Public Health and Infectious Diseases, Sapienza University of Rome, Laboratory Affiliated to Istituto Pasteur Italia—Fondazione Cenci Bolognetti, Rome, Italy

³IRCCS, San Raffaele Pisana, Telematic University, Rome, Italy

⁴Department of Medical Biochemistry and Biophysics, Karolinska Institutet, Stockholm, Sweden

⁵LCBPT, UMR 8601 CNRS–Paris Descartes University, Sorbonne Paris Cité, Paris, France

⁶ESPE of Paris, Paris Sorbonne University, Paris, France



<u>J Investig Med.</u> Author manuscript; available in PMC 2012 Aug 1. *Published in final edited form as:* <u>J Investig Med. 2011 Aug; 59(6): 881–886.</u> doi: 10.231/JIM.0b013e31821b8755

Vitamin D and the Immune System

Cynthia Aranow, MD, Investigator

PMCID: PMC3166406 NIHMSID: NIHMS291217 PMID: <u>21527855</u>



Nutrients. 2017 Nov; 9(11): 1211. Published online 2017 Nov 3. doi: 10.3390/nu9111211

Vitamin C and Immune Function

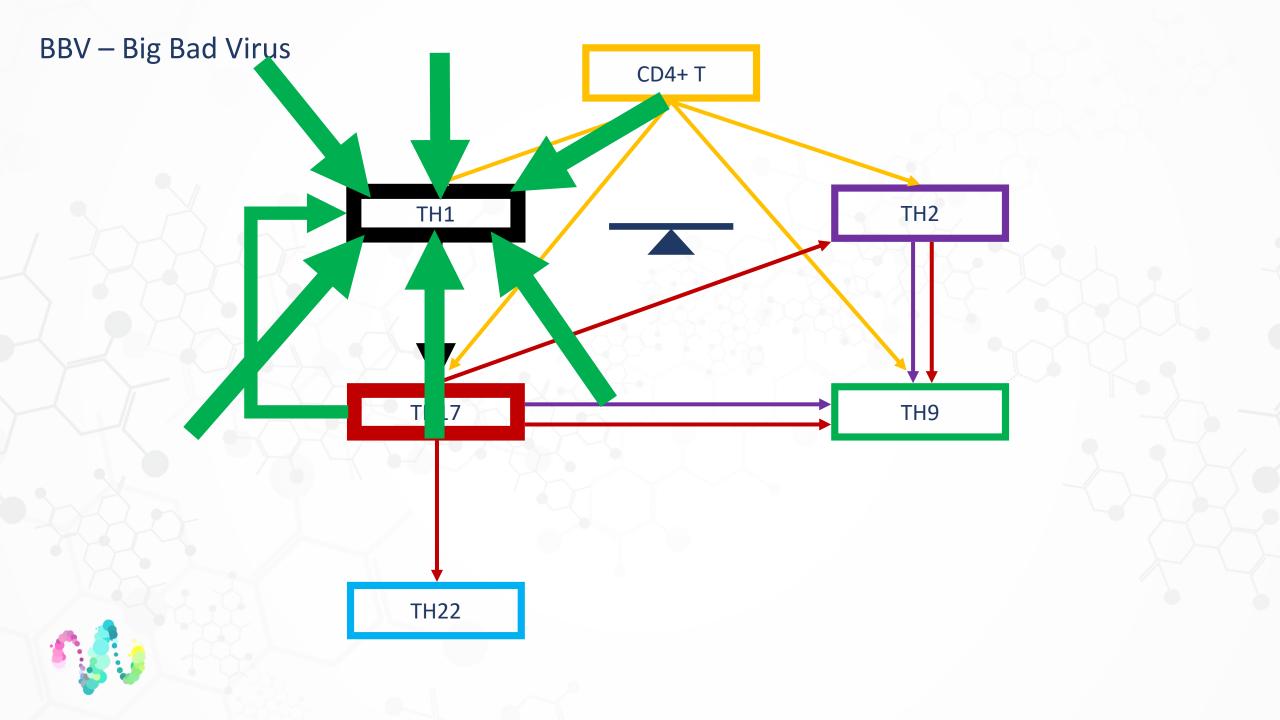
Anitra C. Carr^{1,*} and Silvia Maggini²

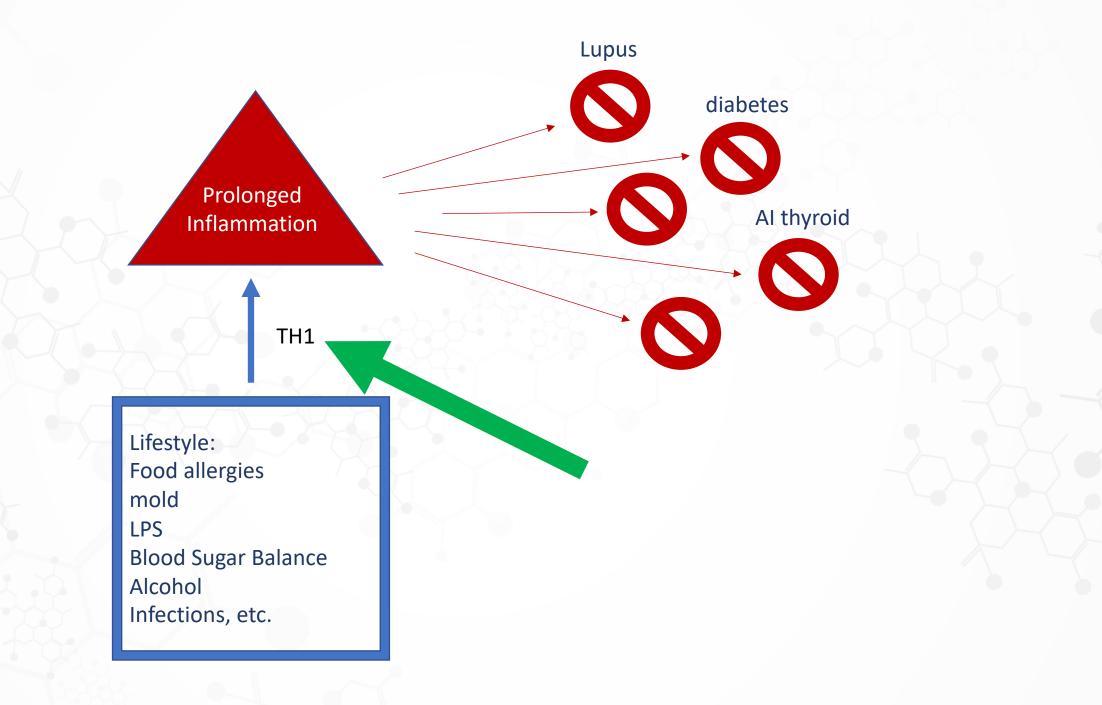
Author information > Article notes > Copyright and License information

Disclaimer



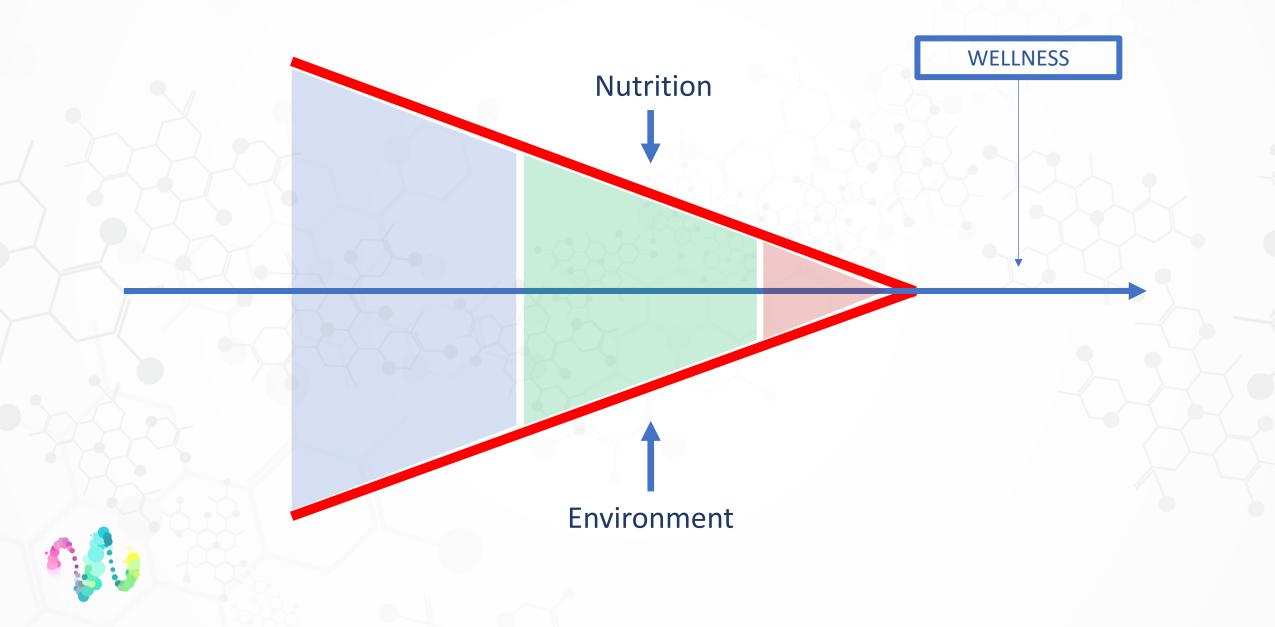
PMCID: PMC5707683 PMID: 29099763



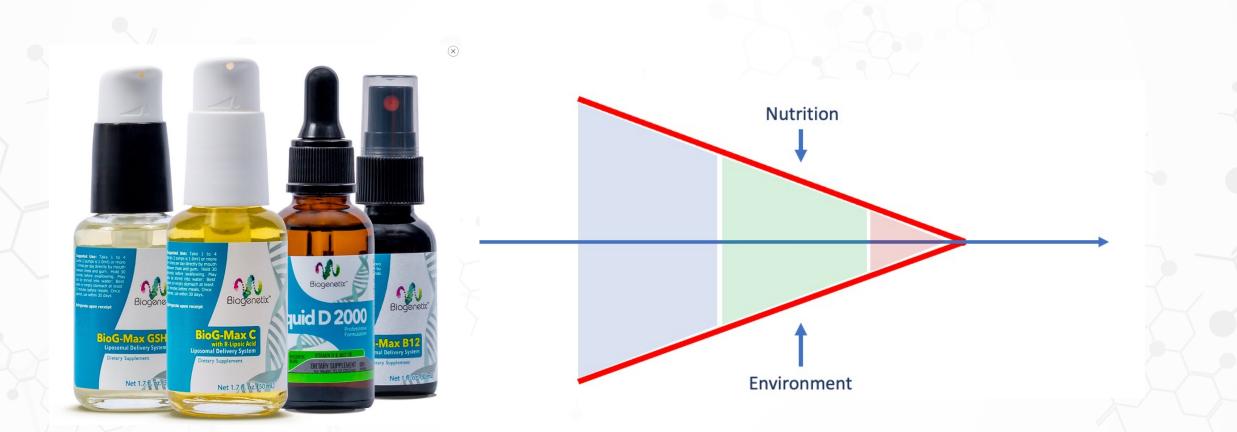


(3)

Protocols



Immune Support



130

Biogenetix: 833-525-0001



zeb@biogenetix.com



kim@biogenetix.com

