

# Community Digest

SEPTEMBER 2025

FROM DR. SEEDS



### I must admit that I love butyrate, which is why I recommended it as an important over-thecounter supplement in The Redox Promise. Why do I think so highly of this compound? First, it's a naturally occurring SCFA that is produced in the colon by resident gut bacteria—

typically through the fermentation of dietary fiber. The synthesis by intestinal bacteria occurs via four pathways: nondigestible carbohydrates (like fiber), succinate, L-lysate, and glutarate. It is then taken up and metabolized by the colonic epithelial cells, after which low levels of butyrate enter the liver and regulate fatty acid metabolism. This naturally occurring postbiotic is an integral source of energy for colonocytes, the cells lining the colon, to maintain the integrity of the intestinal barrier and prevent conditions like leaky gut. Butyrate also exerts strong anti-inflammatory effects by

inhibiting histone deacetylases (HDACs), which regulate gene expression involved in immune responses and thereby reduce inflammation. Additionally, butyrate prompts the growth of beneficial bacteria. Relevant to our purposes here, butyrate has also been shown to improve insulin sensitivity. **Continue Reading** 

**JOURNAL CLUB** 



SSRP Member Video Vault Rewind from April 2025: How does melatonin influence mitochondrial quality control? Discover how this hormone helps

# This session highlights why mitochondrial resilience is central to long-term cellular health.

cells adapt to stress, boost flexibility, and stay energy-efficient.

Member's Video Vault Scroll down to videos published in April 2025.

**Article Link** 

## but it also shows promise in controlling immune-inflammatory responses via the cholinergic anti-inflammatory pathway and in

**CONTINUE READING** 

# results." - Dr. Seeds https://doi.org/10.3389/fphar.2023.1227496

Salt's Double-Edged Role in Th17 Immunity

exposure management." - Dr. Seeds

https://doi.org/10.1172/JCI137786

**Neostigmine's New Frontier: Immunity & Cognition** 

"Neostigmine is primarily used to reverse neuromuscular blockade,

protecting the brain during surgery. However, while nonclinical studies support these benefits, human trials have produced mixed

When Microbes Sync with Mosquitoes: New Insights in Malaria **Spread** "Mosquito gut microbiota follow a daily cycle which affects malaria parasite transmission rates thus enabling better results from vector-control and transmission-blocking interventions when implemented during specific daily periods." - Dr. Seeds hhttps://pubmed.ncbi.nlm.nih.gov/40947390/

## NFAT5-SGK1 signaling pathway yet it enhances Th17 pathogenicity when TGF- $\beta$ levels are low in proinflammatory environments. The study indicates that treating chronic inflammatory and autoimmune

diseases will become more effective when patients receive

inflammatory FoxP3/TGF-eta-associated fate through the p38/MAPK-

cytokine-blocking therapies (e.g., IL-1 $\beta$ /IL-6/IL-23) together with salt

"Tissue NaCl exposure leads human Th17 cells to adopt an anti-

Hold the Salt: Protect Your Liver "People who frequently add salt to their food face increased risks of MASLD cirrhosis and HCC which makes salt reduction an effective prevention method to decrease liver-related health problems. High salt consumption leads to aldose reductase activation which produces additional endogenous fructose that causes leptin resistance and results in liver fat accumulation and tissue damage." - Dr. Seeds https://pubmed.ncbi.nlm.nih.gov/40542866/

High-Dose Semaglutide Weekly: Redefining Obesity

"The 7.2 mg semaglutide dose administered weekly to obese adults with type 2 diabetes resulted in superior 72-week weight loss and waist reduction and HbA1c control compared to placebo while

## that need separate assessment for their value." - Dr. Seeds https://www.thelancet.com/journals/landia/article/PIIS2213-8587(25)00225-6/abstract

Nicotinamide: A Shield Against Skin Cancer "Use of nicotinamide 500 mg twice daily represents a practical chemopreventive approach for first-time keratinocyte carcinoma patients because it shows effectiveness in lowering future skin cancer risk particularly for cSCC in real-world settings." - Dr. Seeds https://doi.org/10.1001/jamadermatol.2025.3238

**Grand Rounds** 

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producing similar glycemic effects to 2.4 mg but more side effects

**UP NEXT** 



# **Mastermind 15: The Aesthetic Matrix** March 13 - 14, 2026 • Oahu, HI

Join The

Tuesday!

Mastermind 14: The Brain Code

November 9, 2025 • Westlake Village, CA

Schedule a Call

November 7 - 8, 2025 • Westlake Village, CA

Click here to watch now. New episodes of Redox Revolution drop every Tuesday!

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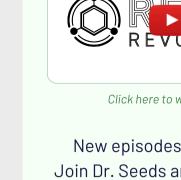








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Join Dr. Seeds and the Redox Medical Group as they uncover the science of cellular resilience and real-world clinical strategies.