

How to Boost Cellular Resilience in the Face of Stress



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Increasing levels of the cellular energy molecule nicotinamide adenine dinucleotide (NAD+) can support our cellular resilience as we emerge from months of quarantine.

Your Body: A Temple Under Siege

After spending months sheltered away in protection of our health, our cellular defenses have been brought top of mind. Our cells are constantly under attack, leading to the accumulation of **quadrillions of new mutations** in our DNA each day. Our bodies were brilliantly equipped with powerful systems and processes, many of which rely on a vital supply of NAD+, to help defend against these assaults.

Over the last few months we are more apt to have subjected ourselves to the deleterious effects of poor-diet, poor-sleep, alcohol consumption, and a sedentary lifestyle. Coping with these physiological and metabolic stressors alone draw upon the precious NAD+ pool within our cells. Low NAD+ levels have been associated with weakened cellular resilience, physiological dysfunction and many of the symptoms and challenges of aging. Fortunately, preclinical data suggests NAD+ may play a role in helping defend against these stresses by promoting cellular defenses and repair.

NAD+ and Its Potential Role in Immune Stress

NAD+ powers essential enzymes like PARPs and Sirtuins [1-3], both of which play a critical role in helping repair cellular damage incurred from the inflammatory response following infection.

The protective effects of these enzymes, regulated by NAD+, helps to keep the inflammatory response within a “goldilocks zone:” too much inflammation could lead to a “cytokine storm”; too little allows a virus to spread unperturbed.

This immune regulation is powerful but energetically expensive. Viral infections stress the immune system and can deplete NAD+ levels. Preclinical research suggests viral exposure may deplete infected cells’ NAD+ levels by as much as 80% [4-6].

Supporting Cellular Metabolism to Help Build Resilience

The NAD-operated Sirtuins also play a keystone role in regulating our body’s

cellular metabolism.

Breakdown of foods, especially fatty and processed foods in large amounts, leads to production of free oxygen radicals which damage our DNA. Accumulation of this damage can cause cellular senescence (resulting in the symptoms of aging) and genetic mutations.

Sirtuins are known to decrease this damage by slowing metabolism down. Scientists believe that boosting Sirtuin activity could potentially “mimic” calorie restriction, helping mediate metabolic responses and delay age-related decline.

Tru Niagen® Pro: A Safe, Proven Way to Boost NAD+

Tru Niagen Pro, known in the scientific community as NIAGEN® Nicotinamide Riboside (NR), has been proven as a safe and efficient way to raise NAD+ levels and activate Sirtuins. It has been well studied with ten published human trials and over 30 additional clinical studies in progress. Not only has it been clinically proven to increase NAD+, it also has no attributable side effects found in published trials.

As you prepare to go back out into the world, support your cellular resilience with Tru Niagen Pro.

Author Frank Jaksch is ChromaDex Founder and Chief Executive Officer

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