



Mitochondria & health

NRG Scan helps practitioners move beyond symptoms and toward understanding the energetic dysfunction at the root of chronic illness. **NRG Scan** enables precision-based interventions that restore mitochondrial health—key for sustainable healing in chronic disease clients. These deeper insights are invaluable for crafting highly personalised protocols that target the root of dysfunction, optimise health, prevent chronic disease, and unlock peak client performance.

Plus, the convenience of dried blood spot collection simplifies the process for both you and your clients.



NRG Scan: Targeting the Core of Chronic Disease

For many complex, chronic conditions, mitochondrial dysfunction lies at the root. **NRG Scan** empowers you to identify these fundamental bioenergetic bottlenecks in your clients, providing crucial insights for conditions such as:

- Chronic Fatigue Syndrome / ME
- Fibromyalgia
- Neurodegenerative diseases (e.g., Parkinson's, Alzheimer's)
- Autoimmune disorders
- Type 2 Diabetes & Metabolic Syndrome
- Cardiovascular Disease
- Cancer

NRG Scan goes beyond standard energy output: it uniquely unlocks deeper insights into **Free Radical Production and Mitochondrial Network Dynamics**.

Reasons to run mitochondrial assessments



Provides information on how efficiently your body is creating and storing energy and ability to recover.



Differentiates how you make energy (efficiently or inefficiently) and how this changes when mitochondria are forced to work maximally.



Determines free radicals generated when mitochondria are stressed and not functioning properly.



Reports how interconnected your mitochondria are as disruption of the mitochondrial network can cause mitochondrial dysfunction, which has been implicated in multiple disorders.

NRG Scan: the Gold Standard for Mitochondrial Assessment

While other Seahorse-based tests offer some data, only **NRG Scan** provides a truly stable and comprehensive view of mitochondrial health. Our dried blood spot sampling overcomes the critical flaw of whole blood tests, where mitochondrial function degrades as soon as blood is drawn.

With **NRG Scan**, you get reliable, accurate results every time which **unlock deeper insights into:**

- **Proton Leak:** Identify inefficient energy production within the mitochondria, where potential energy is lost as heat instead of being converted into usable cellular fuel (ATP).
- **Free Radical Production:** Understand the oxidative burden impacting cellular health. Detects hidden oxidative stress, guides antioxidant strategies.
- **Mitochondrial Network Dynamics:** Gain insights into the collective efficiency and resilience of mitochondria.

Together, these go beyond simple ATP output and provide a multi-dimensional assessment of mitochondrial health.



The free radical production & structural analysis measures Reactive Oxygen Species (ROS) and Mitochondrial Networks and Structure.

- Quantify the basal levels of ROS compared to ROS levels measured under conditions of high stress providing a Bio-Energy Profile
- Perform a cellular image assessment of structure, integrity and organization which are correlated with efficient or dysfunctional mitochondrial performance

- 🔥 Basal Respiration
- 🔥 Mitochondrial Efficiency
- 🔥 Mitochondrial Potential
- 🔥 Mitochondrial Index
- 🔥 Glycolytic Score
- 🔥 Aerobic Score

- 🔥 Q-Score
- 🔥 Energetic Score
- 🔥 Baseline ROS
- 🔥 Stressed ROS
- 🔥 Baseline Mito-Network
- 🔥 Stressed Mito-Network



Ask your healthcare provider to learn more or visit functionaldx.com