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Matching Nutrients to Cellular Needs

Total metabolic streamlining for increased human performance

Our Technology: Overview and Data

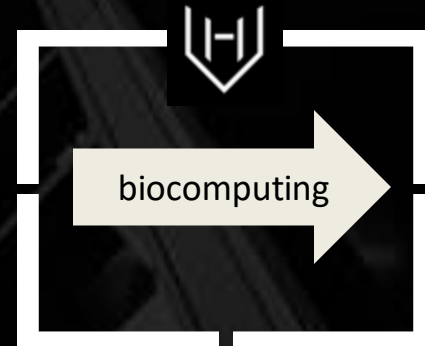
- We streamline metabolism by eliminating unnecessary cellular processes while maintaining/improving desired processes
- We harness genomic information and use our proprietary Bioinformatics Pipeline to determine exact nutrients and ratios needed for total cellular metabolism and function, and consequently, optimal performance
- We can optimize biology on any scale – cellular, individual, or population

<p>Proven to increase cell abundance in liquid and solid culture. Demonstrated 6x increase in bacterial colony formation.</p>	<p>Maintained the same growth rate in organisms while using 95% less nutrient broth. Reduced cost of nutrients by 88%.</p>	<p>60-120% increase in mammalian cell counts over 36 hours. Demonstrated 2x increase in recombinant protein expression.</p>
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The Process: From Bio Fingerprint to Custom Nutrients

Custom Inputs

Genomic data + Desired metrics collected via user-friendly platform



Custom Outputs

Exact nutrients for optimal performance available as dry powder ingredients



Benefits: Readiness, Recovery, Health

- Optimized human metabolism can enhance muscle recovery, enhance cardiovascular health, improve sleep quality and duration, improve O2 saturation and VO2 max, decrease stress responses, accelerate general health and wellness, decrease hunger, and enhance efficiencies of numerous cellular processes
- Examples of use cases:
 - Warfighter optimization before, during, or after critical activities or extreme stress
 - Lightweight meal replacements with a long shelf life for harsh conditions, spaceflight, or emergency nutrition behind enemy lines
 - Enhanced training and recovery
 - General health and wellness aid
 - Enhanced wound recovery and/or COVID-19 recovery
- Our nutrients can also be stored as dry powder, are light weight, long-lasting, portable, can withstand harsh conditions, and are cost effective for large scale production

Who We Are: Our Proven Track Record

- Founded in 2020 by Rebecca Vaught, CEO/Founder, PhD Evolutionary Genetics; located at the HudsonAlpha Institute for Biotechnology
- Highly specialized team with over 30+ years of experience in life sciences and biotechnology
- Successfully secured first provisional patent
- Successful formulation and beta testing of 3 human prototypes
- 9 Commercial Customers, such as:
 - Foresight Biosciences - complex media development for biotech and industrial enzyme sectors
 - Successful COVID-19 vaccine-related manufacturing pilot for plant-based pharmaceutical company
 - Texas A&M Health Sciences Center - complex media development for surgical applications/collagen research