

# Spectruth DAO and Elata Biosciences Announce Collaboration on Prospective Epigenetic Study of PTSD

*Uniting expertise to deliver proactive, personalized mental health solutions for those most at risk.*

KYIV, KYIV, UKRAINE, May 27, 2025 /EINPresswire.com/ -- [Spectruth](https://www.Spectruth.com/) DAO, a leader in precision mental health innovation, and Elata Biosciences, a pioneer in open-source mental health, are proud to announce a strategic collaboration to advance the understanding and prevention of post-traumatic stress disorder (PTSD) in military populations. This partnership centers on Spectruth's newly proposed research initiative, the "Prospective [Epigenetic](#) Study of PTSD Risk in Active-Duty Military & Veterans," and will leverage Elata's state-of-the-art ElataEEG device to establish new standards in personalized mental health care.



## A New Era for PTSD Research: Precision, Prevention, and Personalization

PTSD remains a persistent and devastating challenge for military personnel and veterans worldwide. Traditional mental health approaches have often focused on reactive treatment, leaving a significant gap in early detection and proactive care. Spectruth DAO's mission is to close this gap by harnessing the power of epigenetics, artificial intelligence (AI), wearable tech, and community-driven science to predict, prevent, and personalize PTSD interventions.

The newly proposed research, detailed in Spectruth's "Prospective Epigenetic Study of PTSD Risk in Active-Duty Military & Veterans," aims to identify individuals at heightened risk for PTSD before significant symptoms emerge. By integrating epigenetic biomarker analysis, real-time

physiological monitoring, microbiome, and advanced EEG data, Spectruth seeks to revolutionize how PTSD is understood and managed—moving from a model of crisis response to one of proactive, individualized care.

### Elata Biosciences: Powering the Next Generation of Brain Monitoring

Central to this collaboration is Elata Biosciences' open-source ElataEEG, which will be deployed by Spectruth to collect baseline and longitudinal brainwave data from study participants. Elata's EEG system offers:

- \*High-fidelity, artifact-resistant signal acquisition
- \*Customizable channel count and sampling rates controlled directly from a computer
- \*Seamless integration with other wearable and digital health devices
- \*Open-source architecture for transparency and community-driven improvement

This technology enables the precise measurement of brain activity both at rest and during therapy sessions, providing an unprecedented window into the neurobiological underpinnings of trauma and recovery.

### Study Design: A Multi-Modal, Longitudinal Approach

The research will enroll two cohorts of 100 participants each:

- \*Cohort 1: Active-duty military personnel prior to deployment
- \*Cohort 2: Veterans transitioning out of service

#### Data Collection Timeline:

- \*Baseline: Saliva-based epigenetic testing, EEG, and wearable monitoring at study entry
- \*6 Months: Follow-up epigenetic and EEG assessments
- \*12 Months: Final epigenetic, EEG, and comprehensive PTSD symptom evaluation



Elata's EEG machine



Holz Center opening soon

## Key Measures:

- \*Epigenetic Testing: Saliva samples analyzed for DNA methylation patterns—chemical markers that reflect the body's response to trauma and stress.
- \*EEG Monitoring: Baseline and longitudinal brainwave recordings to identify neurophysiological correlates of PTSD risk and resilience.
- \*Wearable Vitals: Continuous monitoring of heart rate, HRV, skin temperature, and movement to contextualize stress responses in real time.
- \*Clinical Assessments: Standardized PTSD questionnaires and clinical interviews to track symptom development and severity.

## Harnessing AI and Community Science for Impact

Spectruth DAO's proprietary AI platform will analyze the vast, multi-modal dataset generated by the study, uncovering patterns and predictive markers that would be invisible to traditional methods. By combining genetic, physiological, and behavioral data, Spectruth aims to:

- \*Identify epigenetic and neurophysiological signatures that predict PTSD risk
- \*Develop personalized, adaptive intervention strategies for at-risk individuals
- \*Inform government and NGO policy decisions regarding personnel placement and support
- \*Empower clinicians to prescribe the most effective, individualized treatment protocols

The entire research process will be governed by Spectruth's decentralized, community-driven DAO model, ensuring transparency, data security, and equitable benefit-sharing.

## A Vision for the Future: Transforming Mental Health for Generations

This collaboration marks a pivotal step toward Spectruth's broader vision: a world where PTSD is no longer a life sentence, but a manageable condition detected early and treated with unprecedented precision. By integrating the latest advances in epigenetics, neurotechnology, and AI, Spectruth and Elata are laying the groundwork for a future where:

- \*Early Detection is the Norm: Simple, non-invasive tests identify those at risk before symptoms manifest.
- \*Personalized Treatment is Standard: Individual biological profiles guide every therapeutic decision.
- \*Data Empowers Progress: Open science and AI-driven insights continuously refine our understanding and improve outcomes for all.

## Quotes from Leadership

James Holz, Esq., Founder of Spectruth DAO:

"PTSD is a silent epidemic, especially among those who serve. Our mission at Spectruth is to move beyond one-size-fits-all solutions and deliver truly personalized, proactive care. By partnering with Elata Biosciences and leveraging their cutting-edge EEG technology, we're not just collecting data—we're building a future where every veteran and service member can access the care they need, when they need it, tailored to their unique biology and experience."

Elata Biosciences Team:

"We're excited to partner with Spectruth DAO and see ElataEEG powering such a significant study aimed at advancing PTSD understanding and care. Our open-source EEG technology is designed to provide the precise brain activity data needed to uncover the neurobiological underpinnings of trauma and recovery, ultimately contributing to personalized and proactive PTSD care."

#### About Spectruth DAO

Spectruth DAO is a decentralized, community-governed organization dedicated to transforming mental health care through precision diagnostics, AI-driven analytics, and innovative digital health solutions. With a focus on PTSD and trauma-related conditions, Spectruth's roadmap includes the development of saliva-based biomarker tests, wearable monitoring systems, and personalized treatment protocols. Learn more at [Spectruth.com](https://spectruth.com).

#### About Elata Biosciences

Elata is building an open-source ecosystem for precision psychiatry committed to projects at the forefront of science and technology. Our open-source projects sit at the intersection of cutting-edge mental health science and blockchain, and our commitment to open-source drives scalability and transparency across the ecosystem.

#### Join the Movement

Spectruth DAO and Elata Biosciences invite researchers, clinicians, veterans' organizations, and community stakeholders to join this collaborative effort. Together, we can build a future where trauma is met with understanding, innovation, and hope.

For partnership inquiries, media requests, or to learn more about the research proposal, please contact:

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