# Project Name: Digital Biosensor for stress and hormone monitoring

## Principal Investigator: Professor Julian TANNER

## Technology

- **Core Components:** A portable smart reader, single-use disposable test strips, and a mobile App with future AI-powered virtual assistant.
- **Sensing Mechanism:** A patented DNA-based biosensor on the strip converts biomarker levels into an electrical signal.
- **Data Output:** The reader sends real-time, medical-grade results to the user's smartphone.

## Key Advantages

- **Deeper Health Insights:** Unlike wearables that track symptoms like heart rate, we monitor the root biological cause, like hormonal fluctuations.
- **Dynamic Monitoring:** Continuously tracks biomarker changes, unlike single-point lab tests, to find a user's "own normal".
- **Superior Usability:** A simple, error-minimizing process provides lab-grade results at home.
- **Personalization:** Actionable lifestyle guidance based on user's unique data, going beyond current generic health app advice.

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## Stage of Development

- **Current Stage:** Critical stage at building MVP prototype.
- **Immediate Roadmap:** Over the next two years, the goal is to advance to early clinical trials and open to next financing round.

## Opportunities

- **Address Market Gap:** Rising demand in the stress and women's health, areas underserved by current lab tests and wearables.
- **Go-to-Market:** Leverage athletes and fitness KOLs to drive mainstream adoption.
- **Open to New Markets:** Connect users to the health food and supplement market with data-driven recommendations.
- **Future Integration:** The digital nature allows integration with wearable like smartwatches for a fuller personal health ecosystem.

## Intellectual Property

4 US provisional patents

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