BioSpectrum
the business of Bio & Health Sciences
ASIA EDITION

# Taiwan offers world's first handheld device for metabolic analysis

January 15, 2021 | News

**It is a portable, hand-held, and light-weight device able to fit in your coat pocket and easy to carry around**




One of the ways to control body weight is controlling metabolism. Thus, to prevent weight gain, a person must know his/her resting and physical activity energy expenditure. Traditionally, metabolic analysis requires an expensive test done in hospitals that provides passive observation and results that are difficult to interpret.

Gene-Hub, based in Taiwan, is solving the challenges of obtaining metabolic analyses with its Meta G - Accurate Monitor Your Metabolism. It is a portable, hand-held, and light-weight device able to fit in your coat pocket and easy to carry around.

Meta G allows users to measure metabolism with a simple breath to estimate their 24-hour metabolism to the minute. Meta G is a consumer electronics device that is competitively priced, energy efficient, and supports multimode connections.

This Gene-Hub product is the world's first handheld metabolic device, allowing accurate measurements of the respiratory exchange rate and basal metabolic rate through breathing to estimate the user's body metabolism in real time. Moreover, the user can actively measure the body's metabolism at home, and may help reduce the demand for medical services and related costs.

With the mobile app, the body's metabolism data can be collected and stored in the cloud. Through big data analysis, the device can serve as a personalised nutrition consultant and provide personalised diet and exercise programmes.

"We provide innovative ideas and solutions to help people understand daily metabolism through portable devices, which are also able to pair with an app to provide professional physical-training recommendations and health advice," said Yu-Pin Wang, CEO Gene-Hub.

Gene-Hub was established in 2019, with a mission to integrate different physiological information using the AIoT and to provide solutions to improve individual health across the globe. The company provides innovative ideas and solutions to help people understand their daily metabolism through portable and wearable devices. These pioneer devices actively track the body's metabolic index with non-invasive measures that are low-cost, responsive in real-time, and easy to use.