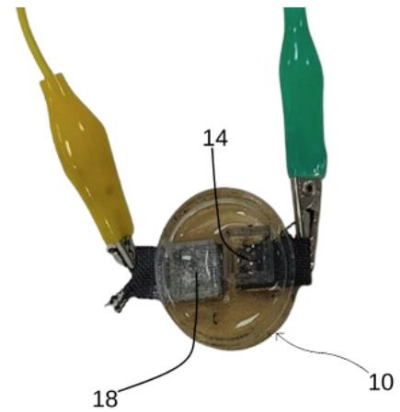


PENDING**(IN202311038759)****Miniaturized 2D
nanomaterial-based
dual-hormone sensor for
simultaneous dopamine and
insulin****NEED**

With rising healthcare concerns and an increasing demand for accurate hormone monitoring, a device that can detect multiple hormones like dopamine and insulin in human blood offers a significant advancement in diagnostics.

TECHNOLOGY OVERVIEW

This two-electrode device offers a simple and efficient method to detect multiple hormones, including dopamine and insulin, in human blood. It uses a carbon cloth working electrode, an acrylic base, and a reference electrode, ensuring accuracy and reliability in hormone detection.

TECHNOLOGY KEY FEATURES

Dual electrode system for hormone detection, carbon cloth electrode, titanium dioxide nanofiber coating for enhanced sensitivity, circular acrylic base, hormone detection for dopamine and insulin, low charge transfer resistance.

[Read more here](#)**MARKET ANALYSIS**

The global hormone testing market is projected to grow at a CAGR of 5.8% from 2023 to 2033. Increased prevalence of hormone-related disorders, rising demand for point-of-care diagnostics, and advancements in miniaturized medical devices will drive this growth.

Target Industries

1) Healthcare device manufacturers, 2) Diagnostic kit producers, 3) Medical research institutions focused on hormone disorders.

AT A GLANCE

- SDG 3 (Good Health and Well-Being), SDG 9 (Industry, Innovation, and Infrastructure), SDG 10 (Reduced Inequality), SDG 17 (Partnerships for the Goals)

Technology is available for licensing/ co-development.

Reach out to Prof. Deepak Chitkara, Coordinator, BITS Technology Enabling Centre,
BITS Pilani Contact Details: tec.bits@pilani.bits-pilani.ac.in, 91 1596-255913