



Science of Sweat

Researchers led by Wei Gao, assistant professor of medical engineering, have developed a mass-producible wearable sensor that can monitor levels of metabolites and nutrients in a person's blood by analyzing a person's sweat. Previously developed sweat sensors mostly target compounds that appear in high concentrations, such as electrolytes, glucose, and lactate. Gao's sweat sensor is more sensitive than current devices and can detect these sweat compounds at much lower concentrations. This high sensitivity, along with the ease with which the graphene-based sensors can be manufactured, means patients could eventually monitor health conditions like gout, diabetes, and cardiovascular diseases in real time and adjust their own medication levels and diet as required.

Find out more at magazine.caltech.edu/post/ttkk