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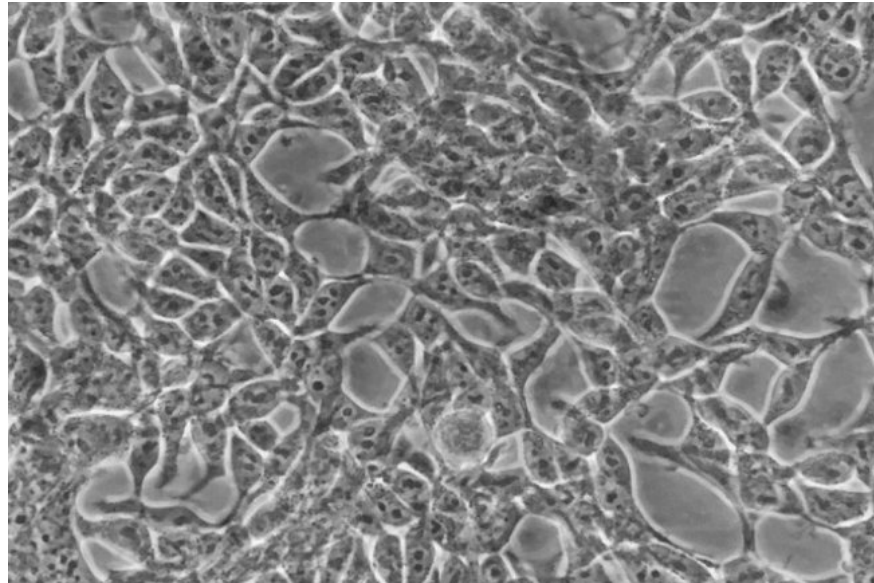
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Why is this study supposed to be important? Health monitoring is said to be an extremely important part of many people's daily lives - and this is a new technology that could one day monitor the cells in the body that can be connected. directly with your smartphone.



Today, the **Internet of Things** era - the **Internet of Things** is growing tremendously - a refrigerator connected to the Internet, a TV connected to the Internet and a sports bracelet connected to the Internet. However, these wearable devices are only capable of tracking the floating part of the iceberg with the health name only. That's why researchers hope in the future to be able to observe the whole body more comprehensively - by monitoring the cells in our bodies.

According to an article published on **Nature Communications** , the researchers invented a method of reprogramming cells, allowing them to identify electronic signals. What does this mean? It is that someday in the near future, you can self-monitor cells in your body through your smartphone.



So how does it work? This system works by using " *redox molecules* ", allowing electrons to travel through the biological system through a series of chemical reactions. These redox molecules can change from one state to another by electrodes.

When genetically altering some of the body's bacterial cells, the team of scientists can control how these bacteria produce proteins. Thanks to that, the protein is shown in green, the team can essentially " *turn on or off* ", activate or disable these bacterial cells.



This is not the only application of this study. Another example, scientists can directly affect many microbial cells.

Although this experiment was only in the early stages of implementation, the researchers imagined the invention of an automated system that could better monitor the health situation than any sports bracelet marketed. This system is integrated to keep track of your normal activities, but it can do more than that - perhaps someday you will get a notification on your smartphone that a dangerous disease has been detected in the body cell and it has

been completely cured - without your knowledge, all thanks to these programmed cells.

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