

Scientists in Korea develop biosensing lens for diabetics

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A team of researchers, affiliated with Ulsan National Institute of Science and Technology (UNIST), South Korea has recently introduced a new biosensing contact lens capable of detecting glucose levels in patients with diabetes.

This innovative smart lens with built-in pliable, transparent electronics can monitor glucose levels from tears in the eye. The device has not yet been tested in humans.

However, the research team expects that the release of this device will offer diabetics a pain-free way to measure their glucose levels with the blink of an eye.

To solve contact lens discomfort issues, the research team has unveiled a new smart contact lens that uses electrodes comprised of highly stretchable and transparent materials.

This clear, flexible lens also contains a glucose sensor that sends electrical signals to an LED. With this sensor, patients can transmit their health information in real-time using the embedded wireless antenna in the lens.