

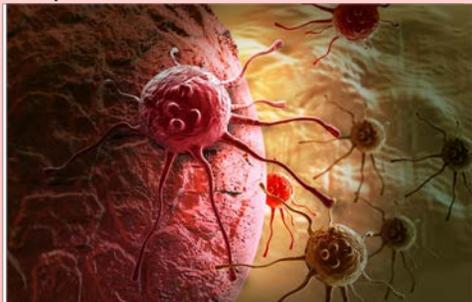
New 'potential target' for cancer therapy found

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By [Catharine Paddock PhD](#)

[Fact checked](#) by Jasmin Collier

A discovery about how cancer cells prepare the way for tumor growth and spread may lead to new treatments that stop it.



Blocking the protein Munc13-4 could stop the spread of cancer.

[Cancer](#) cells are known to release tiny fluid-filled bags, or vesicles, called exosomes.

These are packed with powerful proteins and other molecules that make tissue conditions more favorable for [tumor](#) progression in numerous ways.

The molecules can remodel the environment of the cancer cells, for instance, and they can insert cancer genes into other cells and signal the immune system not to mount attacks.

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[New 'potential target' for cancer therapy found](#)

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Type 2 diabetes: Using coffee for 'glucose control'

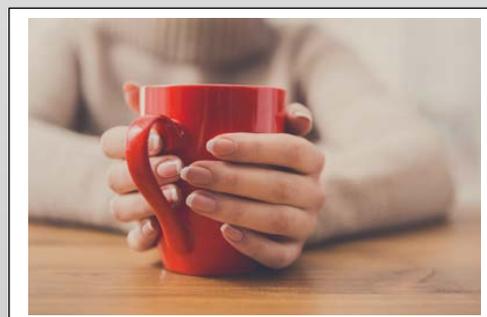
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One day, people with type 2 diabetes might be able to regulate their blood sugar by drinking tea or coffee, thanks to synthetic biology.

Coffee could hold the answer to managing type 2 diabetes.

Scientists at ETH Zurich in Switzerland have designed and tested a synthetic gene circuit that responds to beverage concentrations of caffeine.



It achieves this by releasing a glucose control compound used to treat [type 2 diabetes](#).

The researchers inserted the circuit into cells and implanted them into diabetic mice.

They showed that [coffee](#) consumption brought down blood glucose levels in line with different doses of caffeine.

Once the caffeine had entered the mice's bloodstream, it activated the synthetic gene circuit, causing it to release the compound to bring down glucose levels.

The researchers report their findings in a [study paper](#) published recently in the journal *Nature Communications*.

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[Type 2 diabetes: Using coffee for 'glucose control'](#)

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ST. GABRIEL'S DICKOYA



AUSLMAT have made many donations to orphanages in Matara and Hatton. In addition to many gifts for the children we will present another organ to Sr. Immaculate at St. Gabriels in Hatton. We will also conduct a general medical clinic with Dr. Shanmugarajah of Wanarajah estate - at the Holy Cross church hall in Hatton on Monday 9th July. Rev. Pereira will host us to lunch when we finish the clinic at 1pm. AUSLMAT is grateful to the many donors who have provided gifts to be distributed in Sri Lanka.
DONATION TO KUDA KUSUM

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Research team discovers drug compound that stops cancer cells from spreading

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