

# Does genetics cause aversion to eating vegetables?

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Credit: BBC Terrific Scientific

As part of BBC Learning's Terrific Scientific campaign – and with the guidance of Coventry University – young scientists have been eating kale every day in an effort to prove that there may be a genetic reason as to

why some people don't enjoy their green vegetables.

The collaboration between BBC Learning and the university's Centre for Technology-Enabled Health Research (CTEHR) saw [school children](#) aged 9-11 take part in an 'exposure test' and use blue food dye, a piece of card, a magnifying glass and bags of kale to find out what affects our ability to learn to love vegetables.

Children were separated into two groups; half were asked to eat a piece of kale every day over a 15 day period, whilst the other half ate raisins. The study found that, overall, children who ate kale every day showed an improvement in liking kale over that time, whereas those who ate the raisins did not.

Some children in the kale group showed big improvements in their liking, whilst others disliked it as much as before. When delving deeper into this, the young scientists found that someone who has more 'fungiform papillae' (which carry our 'taste buds') on their tongue did not increase their liking of kale. These children were identified as 'supertasters'.

Approximately 25 percent of the UK population may be supertasters and this makes them a lot more sensitive to strong tasting food such as olives, bitter coffee and grapefruits. If this is the case you may need to persevere for longer with strong tasting [green vegetables](#) such as kale before you start to enjoy them.

50 percent of the population are 'tasters', meaning they are likely to try most food – but may have a few they dislike – whilst the remaining 25 percent are non-tasters and may require more salt, spice and condiments than others to prevent food from tasting bland.

This exposure test is part of Terrific Scientific, BBC Learning's 18

month, UK-wide campaign to bring practical science into the classroom and into our homes. Focusing on ten investigations over the next two years, the campaign will work in partnership with organisations from the world of science, as well as a few famous faces.



Credit: BBC Terrific Scientific

Aimed at upper primary school level, Terrific Scientific will help deliver the objectives of the science curricula for 9-11 year olds across the UK. So far over 8,000 classes and almost 4,000 schools have signed up to take part in the campaign.

Coventry is one of only four universities – including Oxford – chosen to partner with the BBC on its Terrific Scientific campaign.

Jackie Blissett, professor of childhood eating behaviour at Coventry University, said:

"It's been wonderful to work with these young scientists, and they've helped shed some light on one of the great mysteries: why some of us might not like our Brussels sprouts! BBC Learning's Terrific Scientific campaign is a fantastic way to engage youngsters in an interactive experiment which makes the learning experience much more fun."

Helen Foulkes, creative director of BBC Learning, said:

"Terrific Scientific is already helping children, parents and teachers to get excited about science. It's great to see our [young scientists](#) already making an impact on the scientific world and with the help of our partners we have been able to show school [children](#) that their work and participation matters."

**More information:** For more information, see [bbc.in/2iaNr57](https://bbc.in/2iaNr57)

Provided by Coventry University

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