

Humans will eat maggots, scientists insist

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Dr Louwrens Hoffman. Credit: University of Queensland

University of Queensland researchers are investigating the use of maggots, locusts and other alternative proteins in a range of specialty foods.

University of Queensland Meat Science Professor Dr. Louwrens Hoffman said conventional livestock industries would not be able to meet worldwide demand for meat, and alternatives were needed to replace or complement traditional [protein sources](#).

"An overpopulated world is going to struggle to find enough [protein](#) unless people are willing to open their minds, and stomachs, to a much

broader notion of food," Professor Hoffman said. "Would you eat a commercial sausage made from maggots? What about other insect [larvae](#) and even whole insects like locusts? The biggest potential for sustainable protein production lies with insects and new plant sources."

Professor Hoffman said studies had shown that Western consumers who were willing to try insects in pre-prepared food recoiled from the idea of eating or preparing insect-based meals themselves, unless the insects were processed and disguised.

"In other words, insect protein needs to be incorporated into existing [food products](#) as an ingredient. For example, one of my students has created a very tasty insect ice-cream."



Sausages made from fly larvae. Credit: University of Queensland

Professor Hoffman said kangaroo meat was a potential source of global protein, as kangaroos used landscapes unsuitable for grazing.

Professor Hoffman's Queensland Alliance for Agriculture and Food Innovation (QAAFI) research involves the use of larvae (maggots) from the black soldier fly (*Hermetia illucens*) as a protein source for chicken production.

"Poultry is a massive industry worldwide and the industry is under pressure to find alternative proteins that are more sustainable, ethical and green than the grain crops currently being used," he said.

He and his collaborators have found that broiler chicken diets that include up to 15 per cent larvae meal don't compromise chicken production performance, nutrient-use efficiency, breast meat aroma, flavour, juiciness and tenderness, or long-chain fatty acid composition.

"It's all pretty logical if you think about it," he said.



Sausages made from fly larvae. Credit: University of Queensland

"Chickens in the wild don't eat feed preparations. They eat insects and larvae.

"And, while [insects](#) are largely foreign as a food in Western cultures, for many millions of people around the world they are a familiar part of the diet."

Professor Louwrens said [insect larvae](#) could be produced as a product from 'upcycled waste' including sewage.

"There needs to be a better understanding of the difference between

animal feed and human food, and a global reappraisal of what can constitute healthy, nutritional and safe [food](#) for all."

Provided by University of Queensland

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