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diet rich in unsaturated fatty Fish naturally produce omegaacids such as omega-3. The 3fatty acids but mammals can't family of fatty acids is

thought to prevent blood platelets from clotting and sticking to artery walls, reducing the risk for heart attacks and strokes.

The study's senior author, Jing Kang of Massachusetts General Hospital and Harvard Medical School, found the gene was passed on to four generations of mice.

The researchers fed genetically modified mice and normal mice a diet high in omega-6 fatty acids and low in omega-3.

The genetically modified mice could chemically convert omega-6 fatty acids into the healthier omega-3 version.

"At present, farm animals are fed fishmeal and other marine products, but this time-consuming and costly, and is limited by the quantity of the source," they wrote

in Thursday's issue of the journal Nature.

"Production of [omega-3] fatty acids by the animals themselves would be a cost-effective and sustainable way of meeting the increasing demand."

The researchers are trying to breed transgenic chickens that would lay omega-3 eggs. Kang acknowledges it may be difficult to do in a cow or a pig.

Promising results in mice cannot always be duplicated in experiments on larger, more complicated species.

Other scientists said controversial transgenic herds would face regulatory and consumer hurdles, including animal welfare and human safety concerns.

Researchers have tried to feed livestock omega-3 supplements with poor results. Flavours and textures in the meat, butter and cheese also differed.

So far, neither the U.S. Food and Drug Administration nor Health Canada have approved transgenic livestock for human consumption. Last year, the FDA said cloned animals were probably safe.

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