

Opinion Open Access

Scientists Discover 14 Genes that Cause Obesity

Ken Derow*

Skinny Brain Lifestyle, USA

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machine learning-assisted testing, allowed them to identify 14 genes that cause obesity and three that help prevent it. Enticingly, they found that blocking the action of the three genes that prevented the worms from becoming obese also led to them living longer and having better neuro-locomotory function. ose are exactly the type of bene ts drug developers would hope to obtain from anti-obesity medicines.

Conclusion

More work needs to be done, of course. But the researchers say the indicators are encouraging. For example, blocking the e ect of one of the genes in lab mice prevented weight gain, improved insulin sensitivity and lowered blood sugar levels. ese results (plus the fact that the genes under study were chosen because they were associated with obesity in humans) bode well that the results will hold true in people as well, the researchers say.

Anti-obesity therapies are urgently needed to reduce the burden of obesity in patients and the healthcare system. Our combination of human genomics with causality tests in model animals promises yielding anti-obesity targets more likely to succeed in clinical trials because of their anticipated increased e cacy and reduced side e ects.

References

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Description

Obesity and our genes

Researcher new research helps shed light on the complex

Genomicists have identi ed hundreds of genes associated with

e worms have produced great bene ts for science. ey've been

Scholars used the worms to screen 293 genes associated with admirally including a business of the work of the scholars are a second or s