

‘Human Genome Project for our diets’: Here’s how bioactive compounds could overcome a dearth of vegetables in Americans’ health

A recent paper published in [Nature Food](#) to inform the White House Conference on Hunger, Nutrition and Health proposes a public challenge to establish a National Institute for Nutrition under the NIH to accelerate a new “nutritional moonshot”. The aim is to find ways to transform nutrition as an initiative of public health.

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Science only knows less than 1% of bioactives from nature – and that’s a generous estimate. The other 99% have the combined potential to act as preventative medicine for the world’s most debilitating chronic diseases. They will help develop tomorrow’s nutritional products, create guidance for how to use food as medicine, and establish how to grow and source the best plant varieties to maximize their power.

Americans are falling dramatically short of their [daily fruit and vegetable intake requirements](#), which is fueling our public health crisis of chronic disease.

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[Forager](#), Brightseed’s artificial intelligence, is discovering bioactives and predicting their impact on human biology at a rate that was previously impossible. With a discovery process 10 times faster than traditional research, and with a hit rate 100 times higher than typical drug discovery, we’ve already found thousands of new bioactives that have the potential to beneficially modulate biological processes in the human body and promote health in every organ and biological system. By the end of 2025, Forager will expand what is known to science by 100x and in effect, host the largest natural compound library in the world.

[**This is an excerpt. Read the original post here**](#)