

Bone-derived hormones reverse memory loss in mice

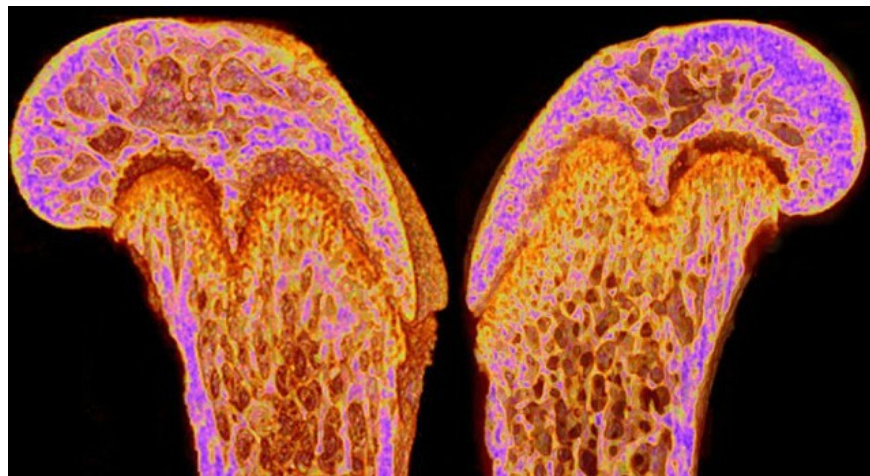
Columbia University researchers reversed memory loss in old age by increasing the level of osteocalcin in the blood, which is a hormone made by bone cells.

1. You are often teased as the "goldfish brain", do not be sad this indicates you have a brain that works very well
2. Blushing after drinking alcohol, the hidden sign of a dangerous disease many people don't expect
3. Alzheimer's can help treat patients with brain injury

Columbia University researchers reversed memory loss in old age by increasing the level of osteocalcin in the blood, which is a hormone made by bone cells.

The study, published in the Journal of Experimental Medicine, identified a hormone receptor called osteocalcin in the brain that can be used to treat cognitive decline in older people.

Dr. Gerard Karsenty, professor of medicine and president of the Department of Genetics & Development at Columbia University, said: *"In previous studies, we found that osteocalcin plays many roles in the body, including the shoulder. games in memory "*.



"We have also observed that hormones rapidly decline in humans during adulthood. That raises an important question: Can memory loss be reversed by restoring hormones? The answer is yes, at least for mice, which has opened up a new research pathway to reverse the cognitive decline with foreign hormones. vi ".

The researchers gave the old mice continuous osteocalcin infusions over a two-month period, resulting in significant improvements in mice in memory tests.

The team also injected osteocalcin into old blood-deficient mice, resulting in no improvement in memory. According to the researchers, the addition of plasma before injecting osteocalcin into the mouse helps it improve memory.

Moreover, the researchers determined that osteocalcin binds to a receptor called Gpr158 found in the neuron of the CA3 region of the hippocampus region, the brain's memory center.

You finished reading the article "**Bone-derived hormones reverse memory loss in mice**" edited by the [TipsMake](#) team. We hope this article has provided you with many useful tech tips and tricks. You can search for similar articles on tips and guides. Thank you for reading and for following us regularly.