

Like humans, fish also have arthritis?

Researchers from the University of Southern California, USA have announced that fish are very susceptible to arthritis, not just humans. This new argument contradicts previous thoughts about fish in our minds.

According to statistics from the Arthritis Foundation, there are more than 50 million Americans with arthritis, which is one of the main causes of disability for people in this country. But do you know that fish families also have arthritis like us?

Researchers from the University of Southern California, USA have just announced that not only humans, fish are also very prone to arthritis. This is in stark contrast to our previous thoughts on fish.

The cause of this condition is that **synovial and lubricating joints in the fish bones are not fully evolved** like some other vertebrate species that live on the ground.

And to clarify this problem, the research team collected samples of zebrafish named **Danio rerio**, which is one of the members of the finfish family, which has evolved long ago. . It was chosen because of its long genetic structure and many similarities with genetic evolution in humans.



This fish is used in research at Oregon State University.(Image source: Oregon State University.)

By CT method, the results showed that the jaw joint and fins joints of Danio rerio fish also had synovial joints like the joints in the human body. However, this synovial synaptic system lacks **lubricants** (similar to human joint protein translation), so the joint lacks lubrication, and long-term activity causes severe joint inflammation. This arthritis is considered to be similar to human arthritis.

The Danio rerio fish is currently being studied for a new technology to replicate inflammation and anti-inflammatory joints. And if the research is successful on this fish, it must be a premise for diagnosing and treating arthritis in the human body. - Gage Crump, Professor of Stem Cell Biology and Regenerative Medicine at Medical School, Keck said in a statement.

Huynh Dung (According to Natureworldnews)

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