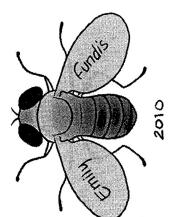


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But all-in-all, something this small has been used to study things as big as cancer, drug disorders, neurological disorders, and even abuse, aging, memory loss, developmental ₹ 5 7 sexual orientation.



And lab experiements are now revealing secrets about how a particular molecule plays a role in processing memories.

Their resistance to alchohol is being tested to identify strategies in preventing alchohol abuse.



international space station to study the effects of gravity on an astronaut's health. Scientists are sending some to the

*

То пате а few ...

What are they currently being used for?

We've only been studying fruit flies in-depth for about a century, and there are still big questions that have yet to be answered.



lar genes, scientists can generate a mutation in their genetic code and observe its effects. 2000. To understand the function of particu-The entire fly genome was sequenced in

physical differences! They have complex ritu-We're really quite similar if you look past our

als of behavior, they have sleep cycles like us, and they can become addicted to caf-

feine, cocaine, and other drugs.



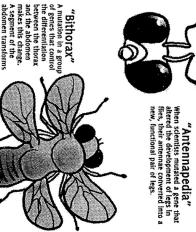
finding answers in their genome may lead to Since flies and humans have the same fundamental genetic system of development, finding similar answers in ours!

econd thorax.

the "college" fly, pictured here.

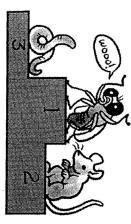
How can they be used to study humans? stand which genes control specific physical through history that have helped us under-There have been some famous mutant flies or behavioral traits.





Common fruit flies (Drosophila melanogaster) are one of the most frequently used "model organisms" in genetic research. What's more, over 60% of fruit fly genes are

similar to a human's.



So what makes them such ideal subjects? Well, they're

 Easy to manipulate genetically



Cheap

















