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Newly Discovered Genes, Brain Chemicals Likely Play a Role in Complex Bee Behavior $(\, |\!|\!|\!|\,)$

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[Fit] Owner Fit National Science Foundation of techniques, U.S. and European scientists have identified by genes that encode brain deminatal Ratio play a ratio in the complex behaviors of the honey bee-down wording in and defending the live to Ringsling, displaying and interpreting date: language. Understanding the jobs fuence chemicals, called interoperptiles, carry our in the honey bee will help researchers understand what they have harmonic said.

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iques, U.S. and European scientists have identified 36 genes that encode brain chemicals likely to play a role in the complex behaviors of the honey bee

from working in and defending the hive to foraging, displaying and interpreting dance language. Understanding the jobs these chemicals, called neuropeptides, carry out in the honey bee will help researchers understand what they do in humans, the scientists said. Some 10,157 genes have so far been identified in the recently sequenced honey bee (Apis mellifors) genome. Journalum Sweedler at the University of Illinois at Urbana

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Campages and his convolves in Belgium report in the Oct. 27, 2006, issue of the journal Science they identified 36 loney bee grace that encode 100 neuropeptides. The insect's brain contains 1 million neurons

--ecreal of the organs would fit on the head of a pin-which are balled in neuropeptides that influence the animals van army of behaviors.

The group seed a new combination of methods that included genetic analysis, poverful computing programs and mass spectrometry to make the discoveries. Determining the gene that encodes a neuropeptide, which is a smallful protein, is harder than in most instance of the procedures of the product better objects as the confidence formation of the properties. The work was funded by the National Science Foundation and the National Institutes of Health.

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