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The Knowing Man ([8])

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[作者] Astrobiology Magazine [单位] Astrobiology Magazine [摘要] Nov 17, 2006: Six million y UCLA scientists have identified a n [关键词] chimpanzees.humans;genes



into unique species. Now UCLA scientists have identified a new way to pinpoint the genes that separate us from our closest living relative and make us uniquely human.

The Processing of the Automat Academy of Security Security Process (and great the Status) at 18 No. 1.1 Status entires (18 No. 1.2 Status entires) in Proceedings of the Automat Academy of Security Processor of any greater belonging with chapture, "epitical entire Data and Security and Condon and Virginia MacDonald Distinguished Professor of Human Genetics at the David Gerifers School of Medicine. "What sets was apart from chimps are our brains: homo supless means "the knowl" During evolution, Changes is some gones alread how the human brain function." The adult." 'Our research has identified an equitarity are so was beautify those grees in the small portion of our DNA that addition from the chimpatenes."

By relatating the correlated existivy of thousands of grees, the UCL Atom Mentified on pain institutional grees, but existed a page of the process of the process

*Conce don't operate in isolation cased ilinections within a system of related genos," said first author Michael O'Oldanu, UCLA genetics researcher. "If we examined each gene individually, it would be insultar to reading every fifth word in The scientisis identified are neverows of genes that recorrespond to specific when regions. The wine procupated these servoirs between humans and chimps, they found that the gene networks offfered the most widely in the cerebral contex-de brain's most highly evolved region, which is three times larger in humans than chimps. Progression from fangs to need, low-brow to high Seconday, the researcher discovered that many of the genes has play a cereal rule for in cerebral contex networks in humans, but not in the chimpance, also show significant changes are the DNA level.

"When we see alternations in a gene network that corresponds functional changes in the grooms, implies that these difference are very mensingful," said Orthum. "This finding supports the theory that variations in the DNA sequent Relying on a new analytical approach developed by corresponding author Sever Bervath, UCLA associate professor of human genetics and bloatistics, the UCLA team used data from DNA microarrays vast collections of tiny DNA op-

to map the activity of virtually every gene in the genome simultaneously. By comparing gene activity in different areas of the brain, the team identified gene networks that correlated to specific brain regions. Then they compared the strength of these correlations between humans and chimps. to map the activity of virtually every gare in the genomes simultaneously. By comparing gene activity in different areas of the brain, the team identified gene networks that correlated to specific by Machine genetic interests in equivalent to footnote a dispute post of the brain specific gene networks identified by the scientists related to teaming, brain cell activity and energy metabolism.

"If you we're the brain is the body's regime, or findings suggest that the human brain fires like a 12-yillotfee regime," eighted to those places when the chump brain works more like a 6-yillotfee regime, "eighted declared Geschwidt. If you be that our general activation of the brain places and different speech, metabolize energy fater and enhance connections the place of the brain works are still focus on looking the expression of evolutionary genes to specific regimes of the brain, such as those that regulate lunguage, speech and other uniquely human abilities.



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