Scientists demonstate link between genetic variant and effectiveness of smoking cessation meds

September 11 2007

A genetic variant present in nearly half of Americans of European ancestry is linked to greater effectiveness of the smoking cessation medication bupropion (Zyban), according to research by scientists supported by the National Institute on Drug Abuse (NIDA) and the National Cancer Institute (NCI), part of the National Institutes of Health (NIH).

People with this variant were less likely than those without it to have resumed smoking six months after treatment with bupropion.

The study, published in the September issue of the journal *Biological Psychiatry*, is a step toward the goal of being able to tailor smoking cessation treatment to individuals based on their unique genetic make-up.

"This study is part of our ongoing commitment to develop more accurate and personalized approaches to medicine," said NIH Director Dr. Elias A. Zerhouni. "This kind of genetic research is helping us to better understand why some people respond to certain smoking cessation treatments, and others don't."

Source: National Institute on Drug Abuse

Citation: Scientists demonstate link between genetic variant and effectiveness of smoking cessation meds (2007, September 11) retrieved 26 April 2024 from https://medicalxpress.com/news/2007-09-scientists-demonstate-link-genetic-variant.html

This document is subject to copyright. Apart from any fair dealing for the purpose of private study or research, no part may be reproduced without the written permission. The content is provided for information purposes only.