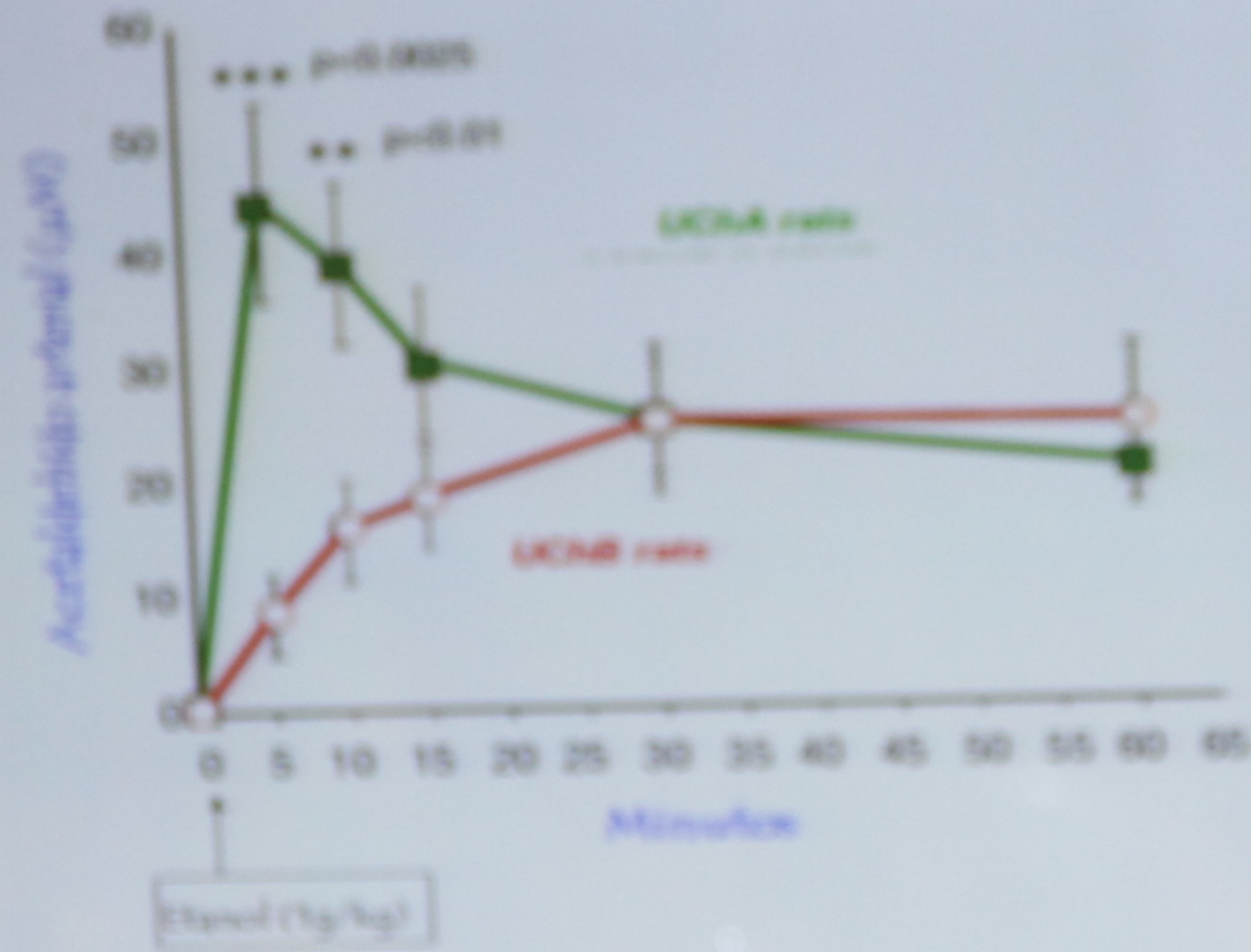


ABSTAINER RATS ALSO SHOW ELEVATIONS IN BLOOD ACETALDEHYDE LEVELS WHEN ADMINISTERED ETHANOL













Ranking of overall harm based on the mortality

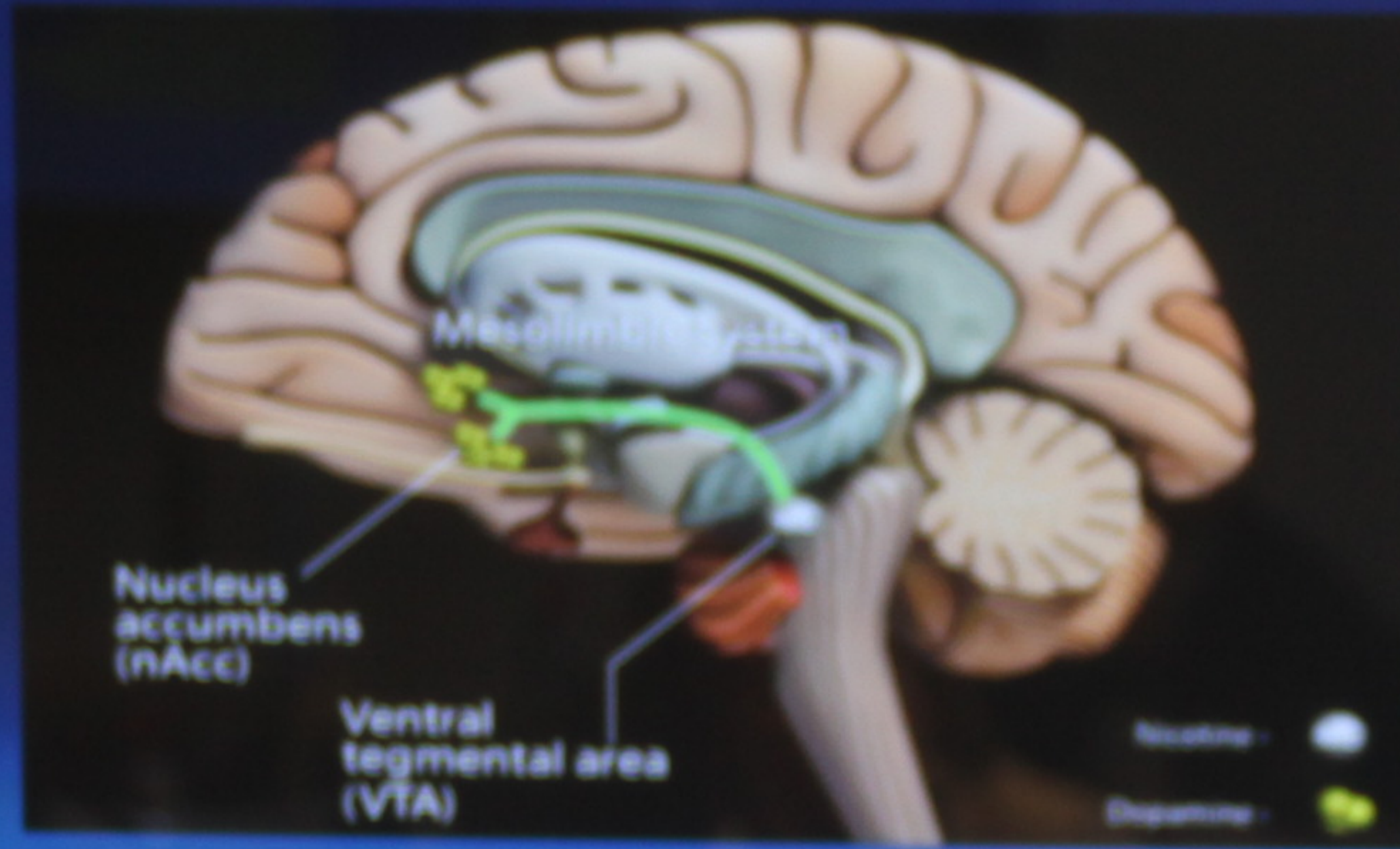
ILLICIT
DRUG ALCOHOL TOBACCO

Africa	28 000	213 000	158 000
American	61 000	279 000	802 000
Europe	33 000	538 000	1 605 000
Eastern Mediterranean	15 000	16 000	186 000
Southeast Asia	17 000	229 000	1 035 000
Western Pacific	44 000	526 000	978 000
Total	197 000	1 804 000	4 800 000

From Degenhardt et al, 2012, Lancet



Varenicline a partial agonist toward the $\alpha 4\beta 2$ nicotinic acetylcholine receptor

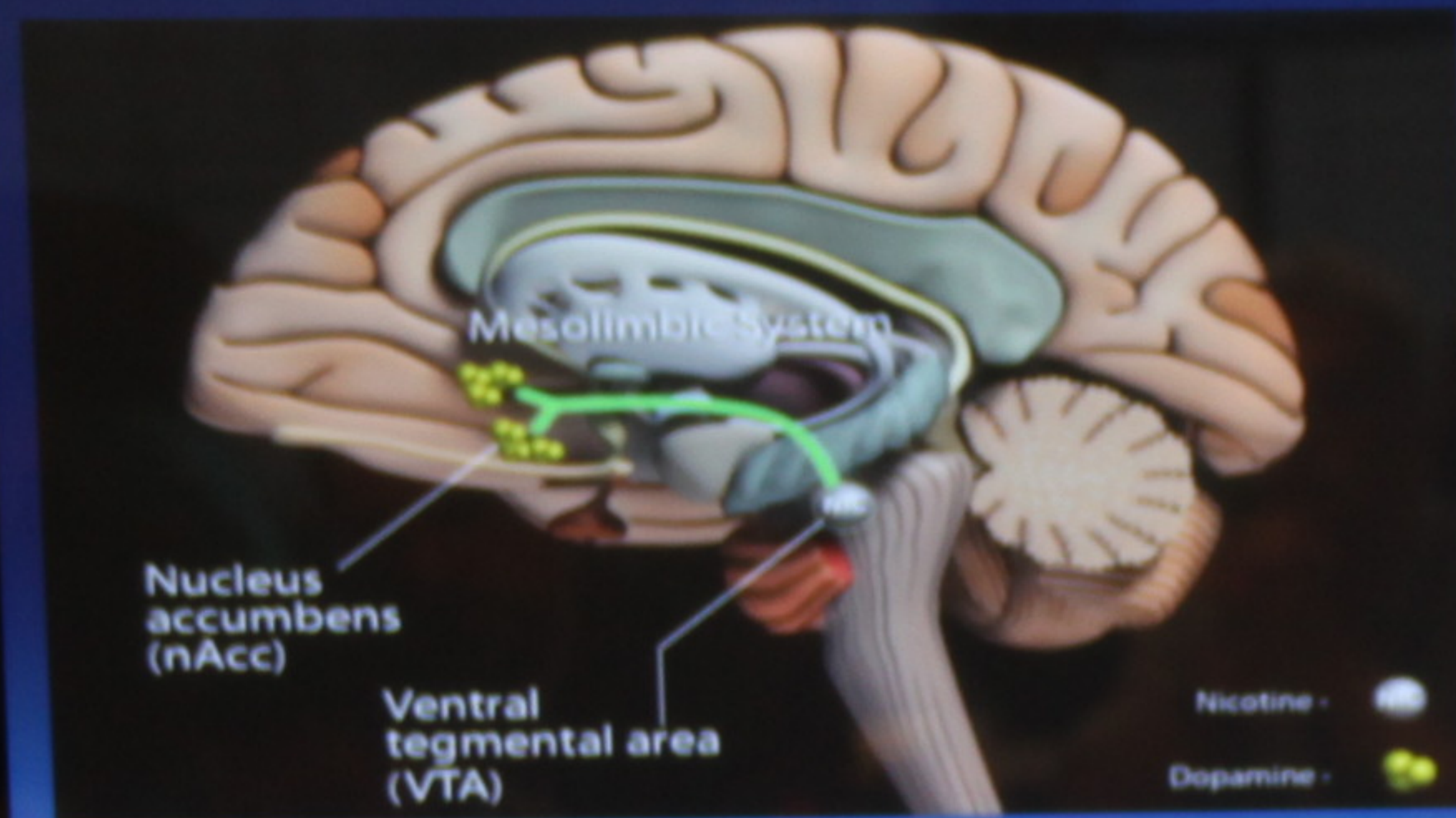


- ▶ Nicotine binds preferentially to nicotinic acetylcholine (nACh) receptors in the central nervous system; one of them is the $\alpha 4\beta 2$ nACh receptor in the Ventral Tegmental Area (VTA)
- ▶ After nicotine binds to the $\alpha 4\beta 2$ nACh receptor in the VTA, it results in a release of dopamine in the Nucleus Accumbens (nAcc), which is believed to be linked to reward

Foulds J. *Int J Clin Pract* 2006;60:571-576



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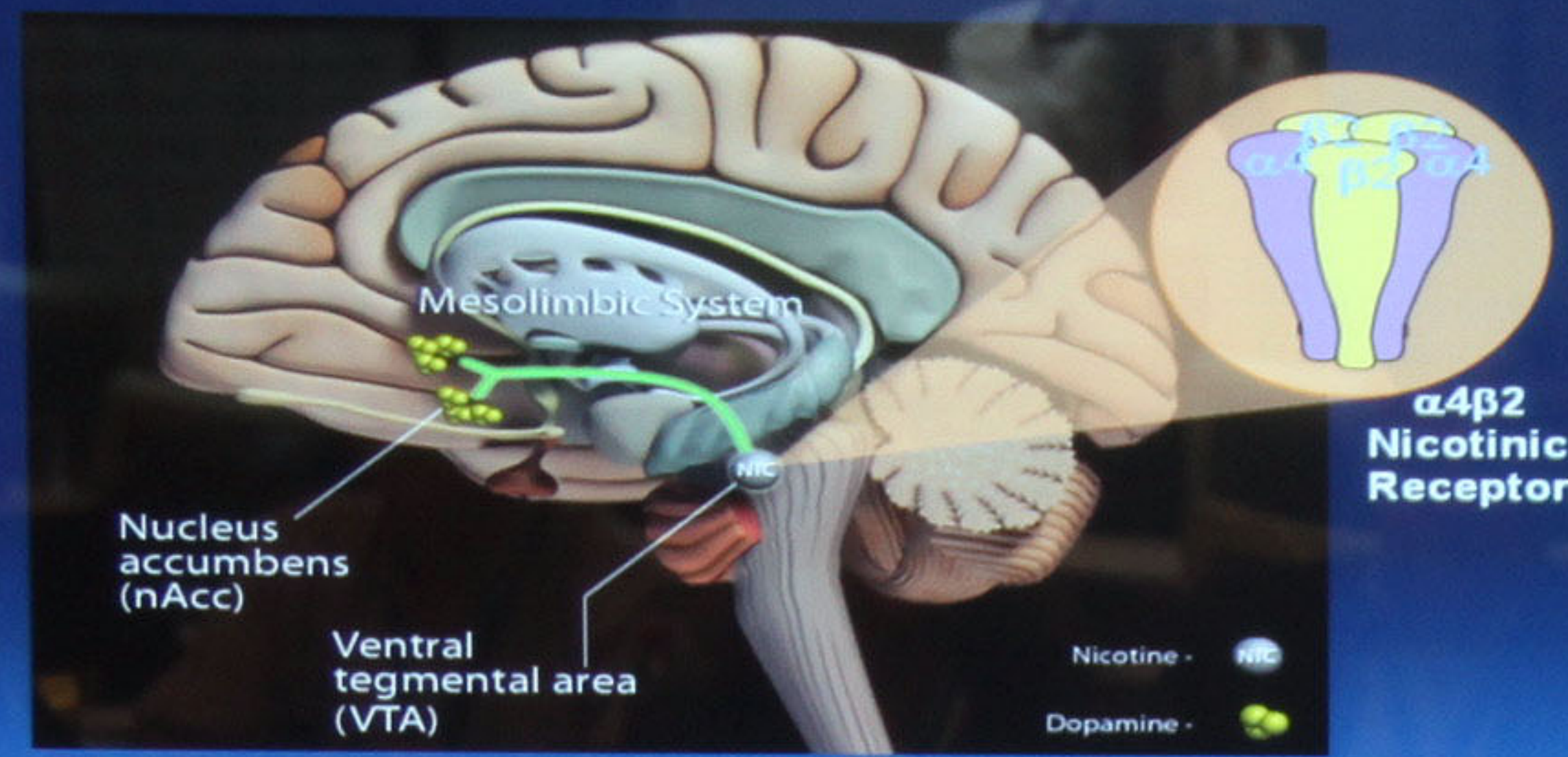


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London, Chile
12 to 14 September 2012
AMERICAN CONFERENCE
ON ADDICTION AND MENTAL HEALTH
SECCION A LAS DROGAS

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CANADA

EXPOSITOR

CELAC
Chile 2012