

Translational Medication Development for Nicotine Addiction

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Objective: To review the current state of the science in medication development for nicotine dependence and to identify important areas for future research. **Methods:** The National Cancer Institute and the National Institute on Drug Abuse convened a conference focused on translational approaches to the development, evaluation, and delivery of medications for the treatment of tobacco dependence. **Results:** Future research directions include investigations of the efficacy of

novel compounds and new applications for existing medications; pharmacogenetic trials of nicotine dependence treatments; and studies of the molecular, neural, and behavioral mechanisms of action of efficacious medications. **Conclusions:** Medication development for the treatment of tobacco dependence remains a scientific and public health priority.

Key words: nicotine, tobacco, addiction, medication development

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