

Topics for Graduate Students on Becoming a Tobacco Researcher

Background Knowledge

- D Behavioral analysis, Walden Two, Beyond Freedom & Dignity
- D Behavioral pharmacology
- D Pharmacology of nicotine
- D Defining dependence
 - Classical conditioning theories
- D Epidemiology
 - Etiology, diagnosis, and treatment of non-nicotine drug disorders
- D CNS pharmacology
- D Over- vs. underreliance on statistics
 - Determining causality/theory building via science
- D Statistics, methods
- D Nosology
- D Health behavior theories
- D Expectancies

Content of Nicotine/Tobacco Knowledge

- D Genetics of smoking, prenatal exposure
- D The nicotine receptor
 - Economics of tobacco use
- D Tobacco use internationally
 - Epidemiology of smoking cessation and relapse
- D Harm reduction
- D Psychiatric comorbidity
- D Regulation of tobacco
- D Nicotine CNS pharmacology
 - Epidemiology of onset, use and cessation of tobacco use
- D Non-cigarette tobacco use
- D Smoking and other drug use
- D Smoking in women
 - Smoking in minorities & elderly
 - The titration hypothesis
- D Measurement of smoking, abstinence, and dependence
- D Stages of change
- D Craving
- D Performance effects of nicotine
- D Beneficial effects of nicotine
- D Passive smoking
- D Nonnicotine factors in addiction
- D Prevention in adolescents
- D Cigarette composition

Content of Marijuana Knowledge

- D Neuroscience
- D Epidemiology
- D Withdrawal

Topics for Graduate Students on Becoming a Tobacco Researcher

- D Treatment
- D Adverse effects
- D Methods & protocols

Methods for Being a Good Scientist

- D Research design
- D How to do clinical trials with the industry
- D Ethics of placebo controls
- D How to graph and table data
- D Writing scientific manuscripts
- D NIH and industry grantsmanship
- D Presentation tips
- D Making a poster
- D Dealing with the media
 - Getting a post-doc vs. academic position vs. industry jobs
- D Interviewing for positions
- D Keeping up with the literature
- D What to get out of meetings
 - Contingencies of academia: promotion, etc.
- D How NIH is organized
- D Picking areas to research
 - Giving drugs to humans
 - Being an expert witness
 - How to write a review article
 - Protocol tips
- D Article/grant review