

# Acronyms and Abbreviations

5CSRTT	five-choice serial reaction time task
5-HT2A	serotonin 2A (receptor)
6-OHDA	6-hydroxydopamine
A2A	adenosine 2A
Abeta 25-35	amyloid beta-peptide 25-35
AD	Alzheimer's disease
ADA	Americans with Disabilities Act
ADHD	attention deficit hyperactivity disorder
AIC	Akaike Information Criterion
ANOVA	analysis of variance
ATBC	Alpha-Tocopherol, Beta-Carotene (Cancer Prevention Study)
ATR	Australian Twin Registry
AUD	alcohol-use disorder
BDNF	brain-derived neurotrophic factor
BIC	Bayesian Information Criterion
CB1	cannabinoid
CHRNA7	$\alpha 7$ nicotinic receptor
CIDI	Composite International Diagnostic Interview
cM	centimorgan
CNS	central nervous system
CO	carbon monoxide
COGA	Collaborative Studies on Genetics of Alcoholism
COMT	catechol- <i>O</i> -methyl-transferase (gene)
COT	children of twins
CPD	cigarettes per day/cigarettes smoked per day
CPP	conditioned place preference
CPS	Current Population Survey
CPT	continuous performance task
CPT-IP	continuous performance task identical pair
CS	conditioned stimulus
CYP	cytochrome P-450
CYP2A6	cytochrome P-450 2A6 (gene)
CREB	cyclic AMP-response element binding
dB	decibel
DH $\beta$ E	dihydro-beta-erythroidine
DHEA	dehydroepiandrosterone
DIS	Diagnostic Interview Schedule (NIMH)
DRD2	dopamine receptor D2 (gene)
DSM	<i>Diagnostic and Statistical Manual of Mental Disorders</i>
DSM-III-R	<i>DSM (third edition, revised)</i>
DSM-IV	<i>DSM (fourth edition)</i>
EEA	equal environments assumption
EEG	electroencephalogram

EM	Expectation maximization
EMA	ecological momentary assessment
ERP	event-related potential
FF	female-female twin pairs
FHS	Framingham Heart Study
fMRI	functional magnetic resonance imaging
FMM	factor fixture model
FTND	Fagerström Test for Nicotine Dependence
FTQ	Fagerström Tolerance Questionnaire
GABA	$\gamma$ -aminobutyric acid
GAW	Genetic Analysis Workshops
GIS	geographic information system
GGMM	general growth mixture modeling/models
GMM	growth mixture modeling/models
HSI	Heaviness of Smoking Index
HPA	hypothalamic-pituitary-adrenocortical
Hz	hertz
IBD	identical by descent
ICC	item characteristic curve
ICD	<i>International Statistical Classification of Diseases and Related Health Problems</i>
ICD-10	<i>ICD, tenth revision</i>
ICR mice	<i>(some kind of outbred mice)</i>
ICSS	intracranial self-stimulation
IP	intraperitoneal
IRT	item response theory
IV	intravenous
kg	kilogram
L	liter
LCGA	latent class growth analysis
LGC	latent growth curve
LOD	log (or logarithm) of odds
LRT	likelihood ratio test
MAO	monoamine oxidase
MAOA	monoamine oxidase A
mg	milligram
mL	milliliter
MLA	methyllycaconitine citrate
MMMF	male-male and male-female twin pairs
MSTF	Mid-South Tobacco Family
MTFS	Minnesota Twin Family Study
$\mu\text{g}$	microgram
nAChR	nicotinic acetylcholine receptor
NETSAD	Netherlands Twin Study of Anxious Depression
NDSS	Nicotine Dependence Syndrome Scale

NEAD	Nonshared Environment in Adolescent Development (Project)
ng	nanogram
NHANES-III	Third National Health and Nutrition Examination Survey
NMDA	<i>N</i> -methyl- <i>D</i> -aspartic acid
NRT	nicotine replacement therapy
PDA	personal digital assistant
PET	positron emission tomography
PNS	peripheral nervous system
PPI	prepulse inhibition
PR	progressive ratio
PTC	phenylthiocarbamide
QSU	Questionnaire on Smoking Urges
RNA	ribonucleic acid
RSA	respiratory sinus arrhythmia
RTU	regular tobacco use
RVIP	Rapid Visual Information Processing
S allele	short allele
SAS	Statistical Analysis Software
SC	subcutaneous
SEM	structural equation model
SES	socioeconomic status
SNP	single nucleotide polymorphism
<i>TH</i>	tyrosine hydroxylase (gene)
TI	tobacco initiation
TTFC	time to first cigarette
TTURC	Transdisciplinary Tobacco Use Research Center
TUS-CPS	Tobacco Use Special Cessation Supplement to the Current Population Survey (U.S. Census Bureau)
VLMR	Vuong-Lo-Mendell-Rubin (test)
VNTR	variable number tandem repeat
VTA	ventral tegmental area
WCST	Wisconsin Card Sorting Test
WISDM	Wisconsin Inventory of Smoking Dependence Motives