A Key to Methamphetamine-Related Literature

Document Description
This document is a comprehensive, thematic index of methamphetamine-related journal articles. In its electronic format, it contains links from cited articles to PubMed, a resource of the National Library of Medicine maintained by the National Center for Biotechnology Information. A Key to Methamphetamine-Related Literature is posted on the New York State Department of Health’s web site at the following URL:

Instructions for Use

Viewing the Document
This document is best viewed with Adobe Reader®, which is freely available at the following web location:
http://www.adobe.com/products/acrobat/readstep2.html. PLEASE NOTE: Because of the large size of A Key to Methamphetamine-Related Literature, you are encouraged to download it, store it on your computer and view it directly through the Adobe Reader® rather than through a browser extension or add-on.

Navigating the Document
There are two guides for navigating through A Key to Methamphetamine-Related Literature: 1) the Grouped Themes; and 2) the more comprehensive Indexed Terms. These tools may be accessed either directly from the body of the document or via the Adobe Reader® Bookmarks. If the Bookmarks are not already visible on the left of your screen, you can view them by selecting View/Navigation Tabs/Bookmarks. There are also extensive cross references throughout the document.

External Links and Resources
In order to access external links and resources, you must have an Internet connection and a browser. If you select a citation in this document with your mouse, you will be linked in most cases to PubMed where you will find an abstract for the article. From the PubMed site you may be able to link out conveniently to other resources, including the full text of the selected article, if you have an electronic subscription to the journal in which it appears. For more information regarding PubMed, you may want to consult PubMed’s Help or its Tutorial. For articles which are not in PubMed, an attempt has been made in this document to provide links to publisher sites.

Contact Information
Recommendations for the improvement of this document or other comments may be made to the compiler, Mark Hammer, at mrh01@health.state.ny.us. No requests for the full text of articles nor for hardcopy of this document will be honored.

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Acknowledgements
This work would not have been possible without the resources of three extraordinary libraries: the National Library of Medicine, the New York State Library and the Herbert W. Dickerman Library in the New York State Department of Health’s Wadsworth Center. The methamphetamine molecule incorporated in the cover image is courtesy of erowid.org.
# G R O U P E D T H E M E S

## Human Studies

### Behavioral Correlates

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**NEUROTRANSMITTERS AND THEIR METABOLISM**

- Acetylcholine
- Dopamine and Dopamine Metabolism
- Dopamine Depletion
- Dopamine Receptors
- Norepinephrine
- Opioid Peptides and Receptors
- Serotonin and Serotonin Metabolism
OTHER SUBSTANCES

- Adulterated and Contaminated Substances
- Alcohol
- Amyl Nitrite
- Benzodiazepines
- Caffeine
- Cocaine
- Erectile Dysfunction Drugs
- Flunitrazepam (Rohypnol™)
- Heroin and Other Opioids
- Ketamine
- LSD
- Marijuana
- Methylphenidate (Ritalin™)
- Nicotine and Tobacco
- Psilocybin
- Polydrug Use
- Recreational and Club Drugs
- Testosterone

POPULATIONS

- African-Americans/Blacks (US)
- Aging and Age Factors
- Asians and Pacific Islanders (US)
- Commercial Sex Workers
- Former Methamphetamine Users
- Gay Men/Men Who Have Sex with Men
- Heterosexuals
- Hispanics
- Homeless Populations
- Incarcerated Individuals
- Lesbians/Women Who Have Sex with Women
- Men
- Native Americans/First Peoples/Aboriginal North Americans
- Race and Ethnicity
- Rural Populations
- Sex Differences
- Smokers
- Snorters
- Socioeconomic Factors
- Transgendered Individuals
- Treatment, Methamphetamine Users in Women
- Young People

POPULATIONS—GEOGRAPHY-BASED (UNITED STATES)

- Alabama
- Arizona
- Arkansas
- California
- Colorado
- Florida
- Georgia
- Guam
- Hawaii
- Illinois
- Indiana
- Iowa
- Kentucky
- Maryland
- Massachusetts
- Michigan
- Minnesota
- Missouri
- Montana
- Nebraska
- Nevada
- New Jersey
- New Mexico
- New York
- North Dakota
- Ohio
- Oklahoma
- Oregon
- South Dakota
- Tennessee
- Texas
- United States Regional Differences
- Utah
- Washington State
- Wisconsin
- Wyoming

POPULATIONS—GEOGRAPHY-BASED (OUTSIDE OF UNITED STATES)

- Africa
- Asia
- Australia
- Austria
- Belgium
- Brazil
- Burma
- Cambodia
- Canada
- China
- Czech Republic
- Denmark
- Estonia
- Europe
- Finland
- Germany
- Greece
- Hong Kong
- Ireland
- Italy
- Japan
- Korea
- Laos
- Latvia
- Lithuania
- Mexico
- Netherlands
- New Zealand
- Pakistan
- Philippines
- Poland
- Portugal
- Russia
- Slovak Republic
- South Africa
- Spain
- Sweden
- Taiwan
- Thailand
- Tijuana
- United Kingdom
# Treatment

- Acupuncture
- Contingency Management
- Drug Courts and Court-Mandated Treatment
- Harm Reduction
- Matrix Model
- Methadone Maintenance
- Pharmacological Interventions
- Psychotherapy
- Treatment, Cognitive and Behavioral
- Treatment, Methamphetamine Users
- Treatment Outcomes
- Treatment Preferences of Methamphetamine Users
- Treatment Readiness
- Treatment Utilization
- Twelve Step and Support Groups

# Usage

- Binge Use
- Dependence and Addiction
- Disclosure of Methamphetamine Use
- Initiation of Methamphetamine Use
- Injection of Methamphetamine
- Medical Uses
- Motivations for Non-Use and Use Cessation
- Motivations for Use
- Oral Administration
- Prevalence of Methamphetamine Use
- Prevention of Methamphetamine Use
- Rectal Administration
- Relapse
- Self-Regulation
- Smoking Methamphetamine
- Snorting Methamphetamine
- Tolerance
- Usage Patterns and Dosing

# Grouped Themes (human studies)
G R O U P E D  T H E M E S
NON-HUMAN STUDIES

BEHAVIORAL AND COGNITIVE RESPONSES

Aggression and Violence  Craving  Self-Inflicted Injury and Self-Mutilation
Appetite and Feeding  Drinking Behavior  Sleep
Avoidance Behaviors  Exploratory Behaviors  Social Behaviors and Environments
Behavioral Responses (comprehensive listing)  Hyperactivity  Sound and Auditory Stimuli
Binge Use  Psychomotor Task Performance  Stereotypic Behaviors
Circadian Rhythms  Reproductive Behaviors  Timing and Clock Speed
Cognition  Reward System  Vision and Visual Stimuli
Conditioned Place Preference  Self-Administration of Methamphetamine

BIOLOGICAL INFLUENCES

Aging and Age Factors  Pharmacokinetics and Pharmacodynamics  Pregnancy  Sex Differences
Genetic Factors

BRAIN

Ascorbic Acid  Hemorrhages and Strokes  Protein Expression
Blood Flow  HIV  Reward System
Electrical Activity  Imaging  Seizures
Glucose Metabolism  Lipids

DEPENDENCY

Conditioned Place Preference  Self-Administration of Methamphetamine  Withdrawal
Craving  Methamphetamine
Reward System  Tolerance

DOSING AND ROUTES OF ADMINISTRATION

Smoking Methamphetamine  Usage Patterns and Dosing

EXTERNAL INFLUENCES

Anesthesia  Social Behaviors and Environments  Stress
Pharmacological Interventions

HUMAN DISEASES (ANIMAL MODELS)

Bipolar Disorder  Huntington’s Disease  Psychosis
Brain Hemorrhages and Strokes  Movement Disorders  Schizophrenia
HIV/Methamphetamine Interactions  Parkinsonism and Parkinson’s Disease

January 2007
# A Key to Methamphetamine-Related Literature

## Metabolic, Hormonal and Immune Functions

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## Neurotransmitters and Their Metabolism

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Acetylcholine

Acetylcholine (animals)


**Acupuncture**


**Acupuncture (animals)**


**Addiction**

*See Dependence and Addiction*

**Adolescents**

*See Young People*

**Adulterated and Contaminated Substances**


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African-Americans/Blacks (US)


Aggression and Violence

See also Self-Inflicted Injury and Self-Mutilation; Suicide and Suicidal Ideation; Trauma


### Aggression and Violence (animals)


Aging and Age Factors

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Aging and Age Factors (animals)

See also Neurological Development and Adaptations (animals)

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Aging and Age Factors (animals)


Vorhees, C. V., T. M. Reed, et al. (2005). "Periadolescent rats (P41-50) exhibit increased susceptibility to D-methamphetamine-induced long-term spatial and sequential learning deficits compared to juvenile (P21-30 or P31-40) or adult rats (P51-60)." Neurotoxicol Teratol 27(1): 117-34.


Alabama


Alcohol

See also Polydrug Use


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Alcohol (animals)


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See Native Americans/First Peoples/Aboriginal North Americans

Amotivational Syndrome


Amyl Nitrite

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See also Eating Disorders


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Arizona (US)

See also Phoenix


Arkansas (US)


Asia


Asians and Pacific Islanders (US)

See also Guam; Hawaii


**Attention Deficit Hyperactivity Disorder**

See also Childhood Attention Deficit Hyperactivity Disorder; Hyperactivity


**Attention Deficits**


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Austria

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*See Driving*

### Avoidance Behaviors (animals)

*See also* Exploratory Behaviors (animals)


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Behavioral Responses (animals)
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CITATIONS


Vorhees, C. V., T. M. Reed, et al. (2005). "Periadolescent rats (P41-50) exhibit increased susceptibility to D-methamphetamine-induced long-term spatial and sequential learning deficits compared to juvenile (P21-30 or P31-40) or adult rats (P51-60)." Neurotoxicol Teratol 27(1): 117-34.


Belgium

Benzodiazepine Receptors (animals)


Benzodiazepines


Benzodiazepines (animals)


Berkeley, CA (US)


Binge Use


Binge Use (animals)


**Bipolar Disorder**


**Bipolar Disorder (animal models)**

Bisexual Men

See Gay Men/Men who Have Sex with Men

Blacks

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Bone Density


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Brain Imaging (animals)


Brazil

British Columbia, Canada
See Vancouver; Victoria

Burma


Burn Injuries


Caffeine


Caffeine (animals)


California (US)

See also Arcata; Berkeley; Fresno; Los Angeles; Riverside; Sacramento; San Diego; San Francisco; San Jose; Santa Cruz


Cambodia


Canada

See also Toronto; Vancouver; Victoria


Cardiovascular Effects and Disease

See also Hypertension; Vascular Disease


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Cartilage (animals)


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Chemical Structure


Chicago, IL (US)


Childhood Attention Deficit Hyperactivity Disorder


Children, Methamphetamine-Endangered

See also Children, Methamphetamine Ingestion by; Pregnancy


Children, Methamphetamine Ingestion by


Child Welfare System


China

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Circadian Rhythms


Circadian Rhythms (animals)

See also Timing and Clock Speed (animals)


**Circuit Parties and Raves**

*See also* Recreational and Club Drugs


Clandestine Drug Laboratories

See Methamphetamine Laboratories

Clock Speed

See Circadian Rhythms; Circadian Rhythms (animals); Hyperactivity; Hyperactivity (animals); Timing and Clock Speed (animals)

Club Drugs

See Polydrug Use; Recreational and Club Drugs; and specific substances

Cocaine

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Cocaine (animals)


Cognition
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Cognition (animals)

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Vorhees, C. V., T. M. Reed, et al. (2005). "Periadolescent rats (P41-50) exhibit increased susceptibility to D-methamphetamine-induced long-term spatial and sequential learning deficits compared to juvenile (P21-30 or P31-40) or adult rats (P51-60)." Neurotoxicol Teratol 27(1): 117-34.


Colorado (US)

See also Denver


Commercial Sex Work and Sex Workers


Compulsivity

See also Impulsivity; Conditioned Place Preference (animals); Sexual Compulsivity; Stereotypic Behaviors; Stereotypic Behaviors (animals)


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Corticosterone


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See also Conditioned Place Preference (animals); Self-Administration of Methamphetamine (animals)


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Czech Republic


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Dangerousness

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**Dental and Oral Health**


**Denver, CO (US)**


### Dependence and Addiction

*See also Craving*


**Depression**

*See also* Mood


Dermatology

See Burn Injuries; Skin and Soft Tissue Diseases and Disorders

Des Moines, IA (US)


Disclosure of Methamphetamine Use

Dopamine and Dopamine Metabolism


**Dopamine and Dopamine Metabolism (animals)**


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Pereira, F. C., E. S. Lourenco, et al. (2006). "Single or multiple injections of methamphetamine increased dopamine turnover but did not decrease tyrosine hydroxylase levels or cleave caspase-3 in caudate-putamen." Synapse 60(3): 185-93.


Dopamine Depletion


Dopamine Depletion (animals)


Pereira, F. C., E. S. Lourenco, et al. (2006). "Single or multiple injections of methamphetamine increased dopamine turnover but did not decrease tyrosine hydroxylase levels or cleave caspase-3 in caudate-putamen." Synapse 60(3): 185-93.


Dopamine Receptors


**Dopamine Receptors (animals)**


Okuyama, S., S. Chaki, et al. (1997). "In vitro and in vivo characterization of the dopamine D4 receptor, serotonin 5-HT2A receptor and alpha-1 adrenoceptor antagonist (R)-(++)-2-amino-4-(4-fluorophenyl)-5-[1-(4-(4-fluorophenyl)-4-oxobutyl)] pyrrolidin-3-yl]thiazole (NRA0045)." J Pharmacol Exp Ther 282(1): 56-63.


**Dopamine Transporters**


Dopamine Transporters (animals)


**Dosing**

*See Usage Patterns and Dosing ; Usage Patterns and Dosing (animals)*

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