Laboratory Behavioral Studies of Vulnerability to Drug Abuse

Editors:

Cora Lee Wetherington, Ph.D. National Institute on Drug Abuse

John L. Falk, Ph.D. Rutgers University

NIDA Research Monograph 169 1998

U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES **National Institutes of Health**

National Institute on Drug Abuse Division of Basic Research 5600 Fishers Lane Rockville, MD 20857

ACKNOWLEDGMENT

This monograph is based on the papers from a technical review "Laboratory Behavioral Studies of Vulnerability to Drug Abuse" held on August 2-3, 1994. The review meeting was sponsored by the National Institute on Drug Abuse.

COPYRIGHT STATUS

The National Institute on Drug Abuse has obtained permission from the copyright holders to reproduce certain previously published material as noted in the text. Further reproduction of this copyrighted material is permitted only as part of a reprinting of the entire publication or chapter. For any other use, the copyright holder's permission is required. All other material in this volume except quoted passages from copyrighted sources is in the public domain and may be used or reproduced without permission from the Institute or the authors. Citation of the source is appreciated.

Opinions expressed in this volume are those of the authors and do not necessarily reflect the opinions or official policy of the National Institute on Drug Abuse or any other part of the U.S. Department of Health and Human Services.

The U.S. Government does not endorse or favor any specific commercial product or company. Trade, proprietary, or company names appearing in this publication are used only because they are considered essential in the context of the studies reported herein.

National Institute on Drug Abuse NIH Publication No. 98-4122 Printed 1998

NIDA Research Monographs are indexed in the *Index Medicus*. They are selectively included in the coverage of *American Statistics Index*, *BioSciences Information Service*, *Chemical Abstracts*, *Current Contents*, *Psychological Abstracts*, and *Psychopharmacology Abstracts*.

Table of Contents Click on page or title to go to section

| Introductionl |
|--|
| Cora Lee Wetherington and John L. Falk |
| Toward an Account of Individual Differences in Drug Abuse |
| Acquisition and Reacquisition (Relapse) of Drug Abuse: Modulation by Alternative Reinforcers6 Marilyn E. Carroll |
| The Influence of Behavioral and Pharmacological History on the Reinforcing Effects of Cocaine in Rhesus Monkeys26 Michael A. Nader |
| Stimulant Preexposure Sensitizes Rats and Humans to the Rewarding Effects of Cocaine |
| Stress, the Hypothalamic-Pituitary-Adrenal Axis, and Vulnerability to Drug Abuse83 Nick E. Goeders |
| Behavioral and Biological Factors Associated With Individual Vulnerability to Psychostimulant Abuse105 Pier Vincenzo Piazza, Véronique Deroche, Françoise Rougé-Pont, and Michel Le Moal |
| Addictive Behavior With and Without Pharmacologic Action: Critical Role of Stimulus Control134 John L. Falk |
| Γaste and Diet Preferences as Predictors of Drug Self-Administration154 Blake A. Gosnell and Dean D. Krahn |
| Individual Differences in Acute Effects of Drugs in Humans: Their Relevance to Risk for Abuse176 Harriet de Wit |

| 188 |
|-----|
| |
| |
| 209 |
| 227 |
| |
| |

Click here to go to next section