

NEWSLETTER

ISGIDAR

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INTERNATIONAL STUDY GROUP INVESTIGATING DRUGS AS REINFORCERS

CORRESPONDENCE

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Annual Meeting of the International Study Group Investigating Drugs as Reinforcers

Keystone Lodge and Conference Center
Keystone, Colorado
June 18, 1989

The behavioral economics of human cigarette and coffee self-administration. W.K. Bickel, J.R. Hughes, P. Rizzuto, and S.T. Higgins. University of Vermont, College of Medicine, Burlington, Vermont.

Pharmacology of nicotine self-administration. W.A. Corrigall and K.M. Coen. Addiction Research Foundation and Department of Physiology, University of Toronto, Toronto, Canada.

Triazolam self-administration and yohimbine pretreatment effects in humans. J.D. Roache, R.A. Meisch, J.E. Henningfield, S.A. Klein, and J.H. Jaffe. University of Texas Health Science Center at Houston, Houston, Texas, and Addiction Research Center, NIDA, Baltimore, Maryland.

Invited Speaker: Choice and alcohol abuse. R.E. Vuchinich. Department of Psychology, Wayne State University, Detroit, Michigan.

ISGIDAR Travel Award: A temporal analysis of fixed-ratio cocaine self-administration in rhesus monkeys. R. S. Mansbach and R.L. Balster. Commonwealth of Virginia Center for Drug Abuse Research, Medical College of Virginia, Richmond, Virginia.

Attenuation of the self-administration of cocaine by D₁ and D₂ dopamine antagonists in squirrel monkeys. J.B. Kamien, J. Bergman, and R.D. Spealman. Laboratory of Psychobiology, Harvard Medical School and the New England Regional Primate Research Center, Southborough,

Massachusetts.

Invited Speaker: Studies of the neurochemical substrates of cocaine self-administration using a progressive ratio schedule of reinforcement. D.C.S. Roberts. Department of Psychology, Carleton University, Ottawa, Canada.

Amphetamine, but not morphine, produces conditioned place preference in chicks. B.T. Lett. Memorial University of Newfoundland, St. John's, Newfoundland, Canada.

Environmental variables influencing drug-induced adjunctive responding in rhesus monkeys. M.A. Nader and W.L. Woolverton. Department of Pharmacological and Physiological Sciences, University of Chicago, Chicago, Illinois.

Invited Speaker: Physiological and subjective effects of smoked cocaine in humans. D.K. Hatsukami. Department of Psychiatry, Research Unit, University of Minnesota Medical School, Minneapolis, Minnesota.

Cocaine choice in humans: Effects of response cost and monetary gain. R.W. Foltin and M.W. Fischman. Department of Psychiatry and Behavioral Sciences, Johns Hopkins University School of Medicine, Baltimore, Maryland.

The reinforcing effects of smoked marijuana in humans. J.P. Zacny and L.D. Chait. Department of Psychiatry, University of Chicago School of Medicine, Chicago, Illinois.

Behavioral dependence on PCP in rats performing under a multiple fixed-ratio fixed-interval schedule. W.D. Wessinger and B.W. Massey. Department of Pharmacology and Toxicology, University of Arkansas for Medical Sciences, Little Rock, Arkansas.

Meta-analysis as a regulatory decision-making tool: Evaluating the behavioral safety of drugs. F.R. Funderburk, L.L. Weinhold, and A.T. Summerfelt. Behavioral Pharmacology Research Unit, Johns Hopkins University School of Medicine and Maryland Psychiatric Research Center, Baltimore Maryland.

ISGIDAR BUSINESS MEETING

Treasurer David Downs reported that the balance of the ISGIDAR account prior to the 1989 meeting was \$1653.51. The proceeds from the Keystone meeting were \$767, and the estimated expenses were \$1150, leaving a balance of approximately \$1270.

President Ator congratulated the 1989 winner of the Travel Award, Robert Mansbach of the Medical College of Virginia. She also expressed the organization's appreciation of the three invited speakers at the meeting, Rudy Vuchinich, Dorothy Hatsukami and David Roberts. Their presentations were interesting and informative and, as intended, broadened the scope of the ISGIDAR session. ISGIDAR members are again encouraged to submit names of potential invited speakers for next year's meeting, and as well names of candidates for the 1990 Travel Award.

It was announced that the following four individuals had been accepted for membership in ISGIDAR, following a mail ballot vote: Jonathan Kamien, Robert Mansbach, Carles Muntaner i Bonet and James Zacny.

The following officers were elected for the 1989-90 term:

President

Harriet de Wit

Vice-President (Animal Use)
Vice-President (International)

Secretary
Treasurer

Nancy Ator
(to be named by
T. Yanagita)
Richard Meisch
David Downs

President Ator announced that the proposed ISGIDAR symposium at the 1990 meeting of the Congress Collegium International Neuro-Psychopharmacologicum (CINP) in Kyoto, Japan had been accepted. Dr. Yanagita proposed that ISGIDAR attempt to raise funds to pay for travel expenses for this conference, and that additional funds may be available from CINP.

There was discussion concerning the possibility of publishing ISGIDAR abstracts, but a majority of those present felt that this would threaten the informality of the meeting. To improve visibility of ISGIDAR and its scientific content, it was suggested that titles of ISGIDAR presentations be circulated with the CPDD notice. This possibility will be raised with Dr. Adler.

Dr. Ator agreed to notify members when comment letters are needed for animal use issues.

Dr. Yanagita suggested that we charge a "corresponding fee" for inactive members to raise money for ISGIDAR activities. This idea was rejected because it was thought that the Newsletter serves an important role in publicizing the organization, and because the efforts required to collect such fees were not considered to be cost-effective. It was also agreed that dues should remain at their current level (\$15.00).

The members expressed their deep appreciation to President Ator for her outstanding contributions as President over the past two years, in particular her efforts in revising the ISGIDAR by-laws, and her activity with regard to animal use issues.

It was announced that the 1990 meeting of ISGIDAR would be held in Richmond, Virginia as a satellite session of the Committee on Problems of Drug Dependence. The day and date are Sunday and June 10, 1990.

A MESSAGE FROM NANCY ATOR, VICE-PRESIDENT (ANIMAL USE)

Update on USDA Animal Care Regulations for U. S. Members of ISGIDAR

On behalf of ISGIDAR, letters were submitted to the USDA/APHIS, commenting on the proposed revisions to the animal care regulations. Comments on Parts I and II were sent for the May 15 deadline and those on Part III for the July 13 deadline. If implemented as written, these regulations will have a significant impact on researchers who use animals and on the research enterprise in general. In many areas, no differentiation is made among dealers, exhibitors, and researchers; this results in certain procedures that are necessary for research, particularly behavioral research, being prohibited. In order to use these procedures (e.g., single housing, standardized feeding conditions) specific requests for exemption would have to be made to the Institutional Animal Care and Use Committee (IACUC). In fact, there are a plethora of reporting requirements that would significantly increase the need for the IACUC and the attending veterinarian to alter the actual conduct of research as well as animal care. Proposed regulations purporting to improve the psychological well-being of nonhuman primates in the laboratory are extremely specific, yet as a whole they seem to represent a scattershot approach to an undefined endpoint. In addition to the time involved in either implementing the procedures or writing requests for exemptions, the expense of meeting many requirements is staggering. For example, individually caged monkeys are to be housed in cages twice the minimum size or are to be placed in an area three times the minimum size four

hours per week. Some specific requirements for maintaining animal facilities are problematic as well (e.g., a requirement to clean daily any surface the monkey is in contact with). The impracticality of meeting certain requirements, many of which appear to be unwarranted, could lead to capricious inspection and enforcement across institutions and laboratories. Anyone wishing a copy of the letters submitted should contact Nancy Ator (301-955-3135; Johns Hopkins School of Medicine, 720 Rutland Avenue, Traylor 624, Baltimore, MD 21205).

As you are no doubt aware, the letters sent by ISGIDAR were only part of an intensive effort by the scientific community to draft comment letters on these regulations. Such efforts two years ago resulted in a complete redrafting and some changes by APHIS to the initial drafts of Parts I and II. Given the number of situations around the country in which political activism on the part of those opposed to the use of animals in research has resulted in extremely restrictive legislation, it is clear that it is important to continue to provide information and comment to our legislators and regulators whenever the opportunity arises. Legislation continues to be introduced that would have important implications for research if passed into law. This is an area in which ISGIDAR as an organization cannot comment nearly as effectively as can the individual (i.e., the voter!). It is important to draft even a brief letter or postcard letting your legislator know whether you are for or against specific bills. It was just a few innocuous-sounding statements added as amendments to the Animal Welfare Act a few years ago that have resulted in the current proposed regulations. Two important bills currently under consideration in committee are described below.

Senate bill S.727, The Animal Research Facilities Protection Act introduced by Senator Howell Heflin as an amendment to the Animal Welfare Act to make it a federal crime to steal, destroy or make unauthorized use of research animals, equipment, or data.

Senate bill S.891 and House bill H.R.1676 introduced by Senator Harry Reid and Representative Barbara Boxer, respectively, would prohibit the Food and Drug Administration from considering the results of the Draize test or LD50 tests unless the Secretary determined that no suitable alternatives were available. Thus the Congress would enter the area of mandating which data may be considered in making regulatory decisions. The basic issue here is obscured by proponents casting the bill in terms of "modernization of testing of consumer substances."

INVITED SPEAKERS FOR THE 1990 MEETING

We are seeking suggestions for speakers to invite to the 1990 meeting. The invited speakers who attended the 1989 meeting were Drs. Vuchinich, Roberts, and Hatsukami. They gave excellent talks, and those who attended the meeting thought that this new feature was a big success. Invited speakers should be individuals who do not regularly attend the ISGIDAR meeting and who are doing interesting studies of drug reinforced behavior. They will be paid a \$100 honorarium. The continued success of having invited speakers depends on members' suggestions of speakers.

1990 TRAVEL AWARD: STUDENT PAPER COMPETITION

ISGIDAR will again sponsor a Student Paper Competition Award for a new investigator to present a paper on drug self-administration research. Up to \$500 in reasonable and documented travel costs will be paid to the winner to attend the meeting of the Committee on Problems of Drug Dependence, 1990 to present a paper at the ISGIDAR satellite session. Payment will be made upon submission of travel receipts to the ISGIDAR Treasurer. Those who did not receive the award, but who did receive good reviews will be encouraged to present their papers at the

ISGIDAR meeting.

ELIGIBILITY: Applicants must be enrolled in a graduate program and be working toward a doctorate or have received their doctorate within the last five years (after June 1, 1985).

Applicants who are not ISGIDAR members must be sponsored by an ISGIDAR member.

The research to be reported at ISGIDAR must not already be published.

MANUSCRIPT REQUIREMENTS: Papers should not be more than 10 pages excluding figures and references.

The length and scope of the paper should be consistent with a 20-25 minute slide presentation.

Please include paper title, name, address, phone number and author's signature on the cover page of the manuscript.

The signature and typed name of the author's sponsor should also appear on the cover page after a statement indicating that the applicant made a significant scientific contribution to the research.

Submit four copies, double-spaced.

REVIEW: Each manuscript will be independently reviewed by the ISGIDAR officers for originality, scientific contribution, sound methodology and clarity of the manuscript.

Blind review is possible upon request.

Reviewers will not participate in the review of papers from their own institution.

Submit manuscripts to

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ISGIDAR BIBLIOGRAPHY

Listing of recent publications or manuscripts in press on the behavioral pharmacology of drugs of abuse by ISGIDAR members:

RA = published, reprints available

IP = in press

SU = submitted

NA = published, reprints not available

Dr. Marilyn E. Carroll
Department of Psychiatry
Box 392 UMHC
University of Minnesota
Minneapolis, MN 55455

Carroll ME, Lac ST and Nygaard SL: A concurrently available nondrug reinforcer prevents the acquisition or decreases the maintenance of cocaine-reinforced behavior. Psychopharmacology, 97:23-29, 1989. (RA)

Carroll ME, Hagen EW, Asencio M and Brauer LH: Behavioral dependence on caffeine and phencyclidine in rhesus monkeys: Interactive effect. Pharmacology, Biochemistry and Behavior, 31:927-932, 1989. (RA)

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Carroll ME: Phencyclidine and Hallucinogens. In: C. K. Erickson, M.A. Javors and W.W. Morgan, Addiction Potential of Abused Drugs and Drug Classes., Haworth Press: 1989. (IP)

Carroll ME, Lac ST and Keenan RM: Nicotine dependence in rats. Life Sciences, 1989. (SU-IP)

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Woolverton WL, Ator NA, Beardsley, PM and Carroll ME: Effects of environmental conditions on the psychological well-being of primates: A review of the literature. Life Sciences, 44:901-917, 1989. (RA)

Carroll ME and Carmona G: Phencyclidine dependence measured by disruptions in food-maintained behavior: Effects of food FR and food deprivation. Submitted, 7/89. (SU)

Dr. John L. Falk
Dept. of Psychology ---Busch
Rutgers University
New Brunswick, NJ 08903

Falk, J.L. and Tang, M. What schedule-induced polydipsia can tell us about alcoholism. Alcoholism: Clin Exp Res 12:577-585, 1988. (RA)

Falk, J.L. and Tang, M. Schedule induction of drug intake: Differential responsiveness to agents with abuse potential. J Pharmacol Exp Ther (IP)

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Tang, M., Lau, C.E., and Falk, J.L. Midazolam and discriminative motor control: Chronic administration, withdrawal and modulation by the antagonist Ro 15-1788. J Pharmacol Exp Ther 246: 1053-1060, 1988. (RA)

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Tang, M., Williams, S.L., and Falk, J.L. Prior schedule exposure reduces the acquisition of schedule-induced polydipsia. Physiol Behav 44:817-820, 1988. (RA)

Dr. Henry Marcucella
Department of Psychology
64 Cummington St.
Boston University, Boston, MA 02215

Marcucella, H. Predicting the amount of ethanol consumed per bout from schedule of access to ethanol. Animal Learning & Behavior 17:101-112, 1989. (RA)

Dr. Richard A. Meisch
Dept. of Psychiatry
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Meisch, R.A. and Lemaire, G.A. Oral self-administration of pentobarbital by rhesus monkeys: Maintenance of behavior by different concurrently available volumes of drug solution. Journal of the Experimental Analysis of Behavior (IP)