

INTERNATIONAL STUDY GROUP INVESTIGATING DRUGS AS REINFORCERS

CORRESPONDENCE

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1993 ISGIDAR SCIENTIFIC MEETING -- Toronto

The 1993 ISGIDAR meeting was held in Toronto as a satellite session of CPDD. Attendance was good. A listing of the talks presented is given below. John Hughes was elected president and Rick Lamb was elected secretary. The resignation of David Downs as treasurer early this year was announced. Following the resignation, Dick Meisch asked Marilyn Carroll to serve as treasurer in the interim. At the meeting she was elected to fill this position.

Presentations at the 1993 ISGIDAR Meeting

Li, D.H., Depoerlene, R.Y., and Emmett-Oglesby, M.W. Texas College of Osteopathic Medicine. **Tolerance to the Reinforcing Effects of Cocaine in a Progressive Ratio Paradigm.**

Kelly, T.H., Foltin, R.W. and Fischman, M.W. University of Kentucky and Columbia University. **Alcohol Dose Choice by humans: Effects of Social Context and Performance Impairment.**

*Comer, S.D., Lac, S.T., Curtis, L.K., and Carroll, M.E. University of Minnesota. **Effects of Buprenorphine and Naltrexone in a Model of Cocaine Relapse in Rats.** *Student Travel Award Recipient.

Chutuape, M.A., and De Wit, H. University of Chicago. **Self-Medication in Anxious Individuals: Effects of Ethanol and Diazepam.**

Schenk, S. Texas A&M University. **Reinstatement of Extinguished Cocaine-Taking**

Behavior by Cocaine and Caffeine.

Amass, L., Bickel, W.K., and Higgins, S.T. University of Vermont. **A Comparison of the Behavioral and Physiological Effect of Buprenorphine and Morphine in Healthy Volunteers.**

Invited Speaker Pomerantz, S.M. University of Pittsburgh. **Psychostimulant Influences on Conditioned Place Preference Behavior of Rhesus Monkeys.**

Corrigall W.A., and Coen, K.M. Addiction Research Foundation. **Nicotine Action in the Ventral Tegmental Region in Nicotine Self-Administration.**

Hemby, S.E., Smith, J.E. and Dworkin, S.I. Wake Forest University. **The Effect of Response-Dependency on Nucleus Accumbens Extracellular Dopamine Levels During Intravenous Cocaine Administration in Rats.**

Invited Speaker Heyman, G.M. Harvard University. **The Use of Choice Procedures for the Analysis of the Reinforcing Properties of Alcoholic Beverages in Rats.**

Pakarinen, E.D., Schwarz-Stevens, K., and Woods, J.H. University of Michigan. **Comparison of Oral Discriminative and Reinforcing Effects of Phencyclidine, Ketamine and Dizocilpine in Rhesus Monkeys.**

Weed, M. R., and Woolverton, W.L. University of Chicago. **The Reinforcing Effects of Dopamine D1 Agonists in Rhesus Monkeys.**

Meisch, R.A., Grabowski, J., and Stewart, R.B. University of Texas Houston-Health Science Center **Orally Delivered Methadone as a Reinforcer for Rhesus Monkeys.**

Takada, K. and Yanagita, T. Central Institute for Experimental Animals (Japan). **Stimulus Effect of Ethyl-6-Carboline-3-Carboxylate in Rhesus Monkeys.**

MESSAGE FROM THE PRESIDENT

Unfortunately, I could not attend this year's ISGIDAR meeting (that's how I got elected president) but it seems that I have inherited some problems. For example, this year's meeting was again well-attended, in fact, perhaps too well-attended. It appears that we cannot continue with having impromptu registration for the 30 min before the meeting and still get started on time. In the enclosed survey, I have asked members to state their preference for alternate options. The meeting had many good papers (see enclosed listing), in fact, too many good papers as this year we had to exclude some papers. Again, I have asked via survey, your opinion about to handle this. The news from the business meeting, on the other hand, was not good in that we discovered our outflow of money is greater than our inflow. Also, David Downs has left his company and we need to find some way to pay postage for the newsletter. I have again, asked your opinion about various options to correct this problem. One solution to our money problem is to obtain pharmaceutical sponsorship for our travel awards, outside speakers, luncheon, newsletter postage, a grant in general, etc. On the survey, I am asking all members to volunteer if they know an

individual at a drug company that we could contact to solicit funds.

The only other item is one left over from the 1992 ISGIDAR and that is the possibility of a conference on measurements or definitions of drug reinforcement. I will look into that this year. Finally, if anyone has any new ideas, issues (but not problems) that they wish to discuss with me about ISGIDAR, please feel free to call or write me at the address on the front of the newsletter.

NOMINATIONS FOR ISGIDAR

Everyone is encouraged to submit nominations for ISGIDAR membership to the president at the address on the front of the newsletter. New members are essential to maintaining ISGIDAR as a vigorous organization. A letter of recommendation and vita are needed to be considered.

1994 MEETING

The 1994 ISGIDAR meeting will be held on Saturday 18 June 1994 at the Breakers in Palm Beach preceding the 1994 CPDD meeting.

INVITED SPEAKERS FOR THE 1994 MEETING

We are seeking suggestions for speakers to invite to the 1994 meeting. Invited speakers should be individuals who do not regularly attend the ISGIDAR meeting, and who are doing interesting research related to drugs as reinforcers. They will be paid an honorarium. Members are urged to submit suggestions to John Hughes.

1994 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, 1993 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, 1986).

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

John R. Hughes
Human Behavioral Pharmacology Laboratory
Department of Psychiatry
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DEADLINE FOR SUBMISSION: April 15, 1994

FELLOWSHIPS

POSTDOCTORAL FELLOWSHIP available at the Johns Hopkins University School of Medicine. Develop and implement human **behavioral pharmacology** research related to substance abuse in a stimulating and productive environment. Our laboratory has an ongoing program of research characterizing the behavioral pharmacology of benzodiazepine and non-benzodiazepine **anxiolytic/sedatives** and **caffeine**. Studies in normal subjects and drug abusers are investigating the reinforcing, discriminative stimulus, physical dependence producing and performance-impairing/enhancing effects of these drugs. Other studies are examining the behavioral pharmacology of a variety of other abused substances. The fellow will be trained in relevant procedures and will contribute to the clinical research program. The training program is part of a clinical and preclinical training program in the behavioral pharmacology of abused drugs and there are opportunities of participate in related preclinical research. Ph.D. and research experience are required. Send letter of interest, vita and phone numbers of three references to: **Roland Griffiths, Ph.D.**, BPRU, Behavioral Biology Research Center, Johns Hopkins Bayview Research Campus, 5510 Nathan Shock Drive, Baltimore, MD 21224. Telephone (410) 550-0034.

POSTDOCTORAL FELLOWSHIP available under a NIDA-sponsored training grant. Research involves animal behavioral pharmacology --animal models of drug abuse, acquisition maintenance, withdrawal and relapse -- behavioral economic analysis of drug dependence -- diet and drug self-administration interactions. **Contact: Marilyn E. Carroll, Ph.D.**, Department of Psychiatry, Box 392 UMHC, University of Minnesota Minneapolis, MN 55455, E-Mail mcarroll@staff.tc.umn.edu

POSTDOCTORAL FELLOWSHIP in Substance Abuse. Three research fellowship positions (2-3 yrs) are available in a stimulating and productive laboratory and clinic. The first position - responsibilities will be to participate in studies on the behavioral and pharmacological treatment of opioid and heroin dependence. Includes research on new pharmacotherapy, buprenorphine, as well as behavioral treatment. For this position contact **Warren K. Bickel, Ph.D.** The second position is to study caffeine and nicotine self-administration and withdrawal in humans. Both laboratory and clinical studies. For this position contact **John R. Hughes, M.D.** The third position entails participating in the development, conduct, and publication of studies on behavioral treatments for cocaine dependence. Training in conducting laboratory studies examing factors influencing human cocaine is also possible. For this position contact **Stephen T. Higgins, Ph.D.** For all positions background in behavior analysis, pharmacology, and drug abuse helpful. Research experience required. Competitive stipends. Send letter of interest, vita, and letters of reference to the individual named above at the Human Behavioral Pharmacology Laboratory, Department of Psychaitry, University of Vermont, Burlington, VT 05401.

BIBLIOGRAPHY

This is a listing of recent publications on drug reinforcement or 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. Richard Meisch
Department of Psychiatry
The University of Texas
Health Science Center at Houston
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Houston, Texas 77030-3497

Meisch, R.A. and Lemaire, G.A. (1993). Drug self-administration. In: van Harren, F. (Ed.), Methods in Behavioral Pharmacology. Amsterdam; Elsevier, pp. 257-300. (RA)

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

Carroll, M.E. and Lac, S.T.: Autoshaping I.V. cocaine self-administration in rats: Effects of nondrug alternative reinforcers on acquisition. Psychopharmacology, **110**, 5-12, 1993. (RA)

Carroll, M.E.: Reducing drug abuse by enriching the environmental context with alternative nondrug reinforcers. In Green, L. and Kagel, J. (Eds.), Advances in Behavioral Economics, Vol. **3** in press, 1993. (IP)

Carroll, M.E.: The economic context of drug and nondrug reinforcers affects acquisition and maintenance of drug-reinforced behavior and withdrawal effects. Drug and Alcohol Dependence, **33**, 201-210, 1993. (RA)

Carroll, M.E. and Rodefer, J.S.: The effects of income on choice between drug and an alternative nondrug reinforcer in monkeys. Experimental and Clinical Psychopharmacology, **1**, 110-120, 1993. (RA)

Carroll, M.E. and Comer, S.D.: Phencyclidine (PCP) and hallucinogens. In Miller, N. (Ed.) Section III: Pharmacology of Alcohol and Other Drugs. Principles of Addiction Medicine, in press, 1993. (IP)

Comer, S.D., Lac, S.T., Curtis, L.D. and Carroll, M.E. : Effects of buprenorphine and naltrexone in a model of cocaine relapse in rats. Journal of Pharmacology and Experimental Therapeutics, in press 8/1993. (IP)

Bernstein, G.A., Carroll, M.E., Crosby, R.D., Perwein, A.R., Go, F.S. and Benowitz, N.L.: Caffeine effects on learning, performance and anxiety in normal school-age children. Journal of the American Academy of Child and Adolescent Psychiatry, in press, 7/93. (IP)

Comer, S.D., Hunt, V.R., and Carroll, M.E.: A behavioral economic analysis of cocaine-base smoking in monkeys: Effects of saccharin and buprenorphine. Submitted, 7/93. (SU)

J.E. Henningfield, Ph.D.
NIDA-ARC
P.P. Box 4180
Baltimore, MD 21224

Henningfield, J.E., Stapleton, J.M., Benowitz, N.L., Grayson, R.F., and London, E.D. (1993). Higher levels of nicotine in arterial than in venous blood after cigarette smoking. Drug and Alcohol Dependence, 33, 23-29. (RA)

Kozlowski, L.T., Henningfield, J.E., Keenan, R.M., Lei, H., Leigh, G., Jelinek, L.C., Pope, M.A., and Haertzen, C.A. (1993). Patterns of alcohol, cigarette, and caffeine and other drug use in two drug abusing populations. Journal of Substance Abuse Treatment, 10, 171-179. (RA)

Huestis, M.A., Sampson, A.H., Holicky, B.J., Henningfield, J.E., and Cone, E.J. (1992). Characterization of the absorption phase of marijuana smoking. Clinical Pharmacology and Therapeutics, 52(1), 31-41. (RA)

Henningfield, J.E. and Keenan, R.M. (1993). Nicotine delivery kinetics and abuse liability. Journal of Consulting and Clinical Psychology, 61(5), 000-000. (RA)

ISGIDAR BIBLIOGRAPHY FORM

- (RA) Published, reprints available
- (IP) In Press, reprints will be mailed after publication
- (NA) Reprints unavailable
- (SU) Submitted

In submitting your entries, use any useful format. Mail this form to :

Dr. R.J. Lamb
Division of Addiction Research & Treatment (MS 984)
Hahnemann University School of Medicine
Broad & Vine
Philadelphia, PA 19102-1192

Note: If the response cost is less to just mail a copy of the preprint or reprint, please feel free to do so with ISGIDAR written on the envelope or the paper itself.

Address for reprints:

Citations (in alphabetical order)

Please fill out and return the current address form below to Rick Lamb (address pre-printed on reverse side) in order to remain on the ISGIDAR mailing list. Our mailing list has grown quite large over the years and we need to eliminate individuals from this list who are no longer interested in ISGIDAR functions in order to reduce our mailing expenses. Thank you.

Current Address (please fill out if you wish to remain on the mailing list)

Name _____

Address _____

Phone: _____ fax _____

Electronic Mail: _____

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