

*The Stephen G. Holtzman Travel Award for Preclinical Investigators was established by family & friends of Dr. Holtzman to honor his memory in tribute to his long-time service and dedication to The College on Problems of Drug Dependence. The award will be given annually or biannually to either a pre-doctoral student or postdoctoral trainee involved in preclinical research related to drug abuse and dependence*



*4<sup>th</sup> Annual  
Stephen G. Holtzman  
Travel Award  
for Preclinical Investigators*



*Award Presented to  
Lais F. Berro  
by Alan J. Budney*

*Sunday, June 10, 2018  
Indigo BCFG  
Hilton San Diego  
Bayfront Hotel  
San Diego, CA*

**STEPHEN G. HOLTZMAN  
TRAVEL AWARD for  
PRECLINICAL INVESTIGATORS**



***Lais F. Berro, PH.D.***  
***Postdoctoral Research Fellow***  
***Department of Psychiatry and Human Behavior***  
***University of Mississippi Medical Center***

Dr. Lais F. Berro is a Postdoctoral Research Fellow in the Department of Psychiatry and Human Behavior at the University of Mississippi Medical Center. Dr. Berro attended the Universidade Federal de Sao Paulo (UNIFESP), Brazil, where she earned an Honors degree in Biomedical Sciences in 2011. As an undergraduate, Dr. Berro conducted research on the influence of different environmental stimuli on behavior in animal models of drug abuse. Dr. Berro also received her Master's Degree (2014) and Ph.D. degree (2017) from UNIFESP with Dr. Monica L. Andersen, in collaboration with Dr. Leonard L. Howell at the Yerkes National Primate Research Center, Emory University. Since her Master's Degree studies, Dr. Berro's preclinical research has focused on the investigation of the mechanisms underlying the relationship between sleep and drug abuse. Dr. Berro has a strong record of scholarly activity, having published over 30 research papers, 3 book chapters, as well as multiple abstracts at national and international scientific meetings. Dr. Berro has also received several honors and academic awards, including 2 undergraduate research Scholarships and a Master's Degree and a Ph.D. Fellowship. During her Postdoctoral studies with Dr. James K. Rowlett, Dr. Berro has continued her research investigating the relationship between the reinforcing effects of drugs, including psychostimulants and benzodiazepines, and their effects on sleep-wake cycles and sleep architecture. By understanding the mechanisms underlying the therapeutic vs abuse-related properties of those drugs, she hopes to provide important insights into clinical practice and drug discovery.



Stephen G. Holtzman, PhD (1943 - 2011) received his B.S. in pharmacology from Columbia University in 1965, and Ph.D. in pharmacology from the University of Michigan in 1969. That same year, Steve joined the Department of Pharmacology at Emory University in Atlanta, GA as a postdoctoral fellow where he rapidly moved through the ranks. He became full professor in just 10 years, with an adjunct appointment at the Yerkes Regional Primate Center. Dr. Holtzman was professor emeritus of pharmacology at Emory University, where he spent his entire academic career. One of Steve's lasting scientific achievements is the principal role he played in the development and validation of behavioral drug discrimination in the characterization of CNS-acting drugs. He was among the first to propose that the discriminative stimulus effects

of drugs in animals are analogous to their subjective effects in humans. His published reports in the 1970s through the 1990s contributed significantly to the eventual widespread adoption of drug discrimination methodology within the scientific community. This method is used widely to study drug-receptor interactions in behaving organisms and has also become a standard screening procedure within the pharmaceutical industry as it can provide important information for early decision-making on new compounds in the early stages of preclinical development. Much of Steve's research concentrated on the consequences of chronic administration of opioids and psychomotor stimulants like caffeine. In a landmark 1974 paper cited over 400 times to date (JPET 189:51-59, 1974), Steve showed that naloxone was almost as effective as d-amphetamine in suppressing eating by hungry animals, a finding that presaged the discovery of the endogenous opioid peptides in 1975-1976. Steve was a proponent and practitioner of "small science"; he was P.I. of many grants throughout his entire career. He authored around 400 publications with 250 full manuscripts that had no more than three authors. Beginning with his graduate school days and extending until his retirement in 2007, Steve had a remarkable 42-year record of continuous NIH funding, including a MERIT award from the National Institute of Drug Abuse, Research Scientist Development awards, Scientist awards, and Senior Scientist award. Steve served on numerous review committees, special emphasis panels and internal research programs. Those who served with Steve will remember his keen insight, his breadth of understanding of both the neural and behavioral sciences and the supportive direction he provided for his many colleagues. The Holtzman Lab produced 17 Ph.D.s, one master in pharmacology and mentored 21 postdoctoral fellows. At Emory, Steve was well known as an outstanding research mentor. In 1999, he was selected Outstanding Alumnus of the Department of Pharmacology at the University of Michigan. In 2011, he was selected to receive the Mentorship Award from CPDD. In 1991, he was elected President of the Society for the Stimulus Properties of Drugs. In addition to Steve's multiple, influential research contributions and inspiring mentorship, he was an extraordinary leader within CPDD where he served as President, Treasurer, Board member, and member or chair of just about every committee within the College. His professional commitment extended beyond CPDD, including the Society for Neuroscience, the American College of Neuropsychopharmacology and the American Society of Pharmacology and Experimental Therapeutics. Steve served on and chaired numerous NIH review panels, was a member of many editorial boards, as well as the Scientific Advisory Board of the Center for the Treatment of Addictions at The Rockefeller University. Throughout his career Steve participated in AS PET as a member of numerous committees, was on the editorial board of JPET from 1976-1997, and was elected as President of ASPET in 2004.

Dr. Stephen G. Holtzman will be remembered by all who knew him for his scientific achievement, mentorship, graciousness and dry wit.