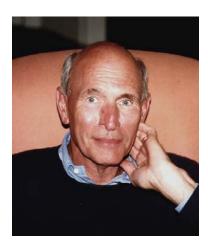
Obituary

John A. Harvey, Ph.D.



John A. Harvey died on June 25, 2011 at the age of 80. He was born in New York City Siberia by his but was raised in grandparents during the first decade of his life. John completed his B.A. degree in 1955, received his PhD degree from prestigious doctoral program Biopsychology in 1959, and began his long and celebrated career as a faculty member, all at the University of Chicago. He moved to the University of Iowa in 1968 and then to Drexel University College of Medicine in the Department of Pharmacology and Physiology in 1988, where he served as Chair from 2006-2008.

John Harvey's research career is highlighted by many seminal scientific contributions related to the biochemistry of the brain and the development of behavioral pharmacology. While at Chicago, he laid the foundation for decades of investigations seeking bv to explain how neurotransmitters within the central nervous system governed behavior and behavioral responses to drugs. He launched his career by establishing that monoamine neurotransmitters were organized into fiber tracts that could be identified selectively destroyed to determine their behavioral functions. Once the brain was damaged, he showed that impaired behavioral functions could be recovered by restoring depleted neurotransmitters or stimulating denervated receptors. Using a model of increased pain sensitivity associated with serotonin depletion, he showed that the precursor 5-HTP could replenish 5-HT to reverse that behavioral deficit. This remained a model for the treatment of neurological damage for years. He championed the transformative idea that medications used to treat psychiatric produced effects disorders their modifying behavioral functions attributed monoaminergic pathways. Subsequently, he established that the fenfluramine and amphetamines depleted brain 5-HT to produce neurotoxic effects, initiating investigations that continue in the substance abuse field. He was among the first to recognize a relationship between brain lesions that destroyed dopaminergic fibers and deficits in feeding and other motivated behaviors.

As a lifelong student of the Russian physiologist Ivan Pavlov, John used pavlovian conditioning of the rabbit nictitating membrane response for the past 25 years to understand how drugs influence John identified the underlying learning. neural circuitry in the rabbit brainstem required for associative learning and then established how drugs specifically altered different components of pavlovian His research established conditioning. unequivocally that hallucinogenic drugs enhanced learning by activating 5-HT₂ receptors and established key roles for these receptors in learning and cognition. At Drexel University, he established a NIDA

program project that used pavlovian conditioning to study the detrimental influence of prenatal exposure to cocaine on development. He also used pavlovian conditioning to examine the effects of brain dysfunction related to autism, applying these techniques to a quest for translational biomarkers for this neurodevelopmental disorder.

John Harvey published over 150 peerreviewed articles, reviews and book chapters and his research contributions were recognized by numerous awards. His career achievements in serotonin research were honored by the Irvine H. Page Award at the 2006 international meeting of the Serotonin Club. As a member of many professional societies in pharmacology and neuroscience, he contributed a lifetime of service to the scientific community. Elected a member of the ACNP in 1979 and a Fellow in 1991, he served actively on the Committee on the Use of Animals. He was especially proud of serving the Journal of Pharmacology and Experimental Therapeutics as Specific Field Editor and then Editor-in-Chief. He was a member of the editorial boards for more than ten journals.

John Harvey was widely known and respected for his humor, collegiality, and for his intelligence and was considered by many to be the paramount gentleman. He trained many graduate students and postdoctoral fellows, many of whom developed their own productive and influential careers in biomedical research. John was the beloved husband to Dr. Rhoda Harvey, and father to sons Michael (wife Pilar), Andrew (wife Sonya) and his eldest son, David, who predeceased him. He was also a loving grandfather to Oliver and

Davia who brought him the greatest joy and pride. With his passing, many who are reading this commentary on John's life and contributions lost a cherished friend and dear colleague.

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