

Exhibit Hall - Town & Country Ballroom
A

**Invited Symposium 1: Traumatic
Brain Injury: Highlighting the
Contributions of Dr. Harvey S. Levin
Ph.D., ABPP-CN, FACS 1946 - 2022**

**Chair: Maya Troyanskaya
Presenters: Randall Scott Scheibel,
Felicia C. Goldstein, Linda Ewing-
Cobbs, Erin D. Bigler, Elisabeth A.
Wilde**

4:00 - 5:25pm
Thursday, 2nd February, 2023
Pacific Ballroom A

Credit Hours: No CE credit will be assigned for this session

Abstract:

Harvey S. Levin obtained his Bachelor's degree from City College of New York, in New York city, Ph.D. in Clinical Psychology from the University of Iowa, in Iowa City, completed his internships in Clinical Neuropsychology and Pediatric Psychology at the University of Iowa Hospitals in Iowa City and Clinical Psychology, Psychiatry and Pediatrics at the Illinois Masonic Medical Center in Chicago, and his fellowship in Neuropsychology at University of Iowa Hospitals in Iowa City.

Dr. Levin started his career in 1972 as Instructor with the Department of Psychology at the University of Iowa and transitioned to The University of Texas Medical Branch (UTMB) in Galveston, Texas, in 1974, where he began an internationally renowned career in clinical work, teaching, and, most of all, pioneering research on traumatic brain injury (TBI). He ultimately became the Chela and Jimmy Storm Distinguished Professor in Surgical Research, Division of Neurosurgery, Department of Surgery in 1987. After leaving Texas for two years to take a position with the University of Maryland Medical System and Shock Trauma Institute in Baltimore, he moved back to Houston Texas in 1995 and established the Cognitive Neuroscience Laboratory (CNL) within the Department of Physical Medicine & Rehabilitation at Baylor College of Medicine,

which was supported by federal grants, including funding from the National Institutes of Health, Department of Defense, Department of Veterans Affairs, and Centers for Disease Control and Prevention, and numerous private foundations. The CNL integrated rehabilitation and neuroplasticity research with multimodality brain imaging, clinical and neuropsychological assessment, and fluid biomarkers. Dr. Levin was Professor with the Departments of Physical Medicine and Rehabilitation where he served as Director of Research (1995-2014), Pediatrics, and Neurosurgery at Baylor College of Medicine. He was also a Research Scientist and the Director of the Center of Excellence for Traumatic Brain Injury at the Michael E. DeBakey Veterans Affairs Medical Center (2008-2013), and Adjunct Professor with the Department of Psychology at Rice University in Houston, Texas.

Dr. Levin's research focused on investigating both acute and long-term outcomes of mild to severe TBI in civilian and military populations, including cognitive and behavioral sequelae in relation to neuropathology using advanced brain imaging modalities. He began prospective, longitudinal studies of adults and children who had sustained TBI associated with closed head trauma upon joining UTMB and developed, in collaboration with Drs O'Donnell and Grossman, the Galveston Orientation and Amnesia Test (GOAT). The GOAT was the first measure to assess post-traumatic amnesia and orientation following moderate to severe TBI, is still most widely used by the clinicians and researchers, and it has been translated to 16 languages. The original publication, "Levin HS, O'Donnell VM, Grossman RG. The Galveston Orientation and Amnesia Test. A practical scale to assess cognition after head injury. *J Nerv Ment Dis.* 1979 Nov;167(11):675-84. doi:

10.1097/00005053-197911000-00004. PMID: 501342", has over 1200 citations. This work continued with participation in the NINDS Traumatic Coma Data Bank and the organization of outcome assessments for NINDS-funded clinical trials of hypothermia to treat severe TBI. To monitor the quality of outcome data across performing sites, Dr. Levin and colleagues developed a code for the reliability of data collected and implemented the role of an outcome monitor who evaluated adherence to protocol across sites. Following establishment of the CNL, he pursued investigation of TBI outcomes across the lifespan using multimodality brain imaging and

biomarkers, errorless learning, translational studies in collaboration with neuroscientists using animal models, and clinical trials of methylphenidate, progesterone, CDP-choline. Dr. Levin spent over 30 years researching neurobehavioral outcomes of head injury in children, starting with a small pilot study funded by the Shriners Hospital in 1991 and continuing with several cycles of a multicenter R01 grant funded by the National Institute of Health. In later years, he used his expertise as a member of several large consortiums, including the Long-term Impact of Military-Relevant Brain Injury Consortium \ Chronic Effects of Neurotrauma Consortium (LIMBIC-CENC) funded by the VA and DoD and the Transforming Research and Clinical Knowledge in Traumatic Brain Injury (TRACK-TBI) funded by the NINDS.

During his career, Dr. Levin authored and co-authored more than 400 articles in scientific journals and over 100 books, with one of them, "Levin, H. S., Benton, A. L., & Grossman, R. G. (1982). Neurobehavioral consequences of closed head injury. Oxford University Press, USA", having over 1100 citation, as well as book chapters that advanced knowledge of TBI, epilepsy, neurodegenerative diseases, and other illnesses that affect brain functioning. He was also very active as a reviewer on federal grant panels and as an editor and reviewer for the Journal of Neurotrauma, Journal of Clinical and Experimental Neuropsychology, Archives of Physical Medicine & Rehabilitation, Neuropsychology, Journal of the International Neuropsychological Society, Lancet, JAMA, Pediatrics, and other top-cited journals. He served as president of the International Neuropsychological Society in 1989-1990. Dr. Levin was a recipient of numerous prestigious awards, including the Javits Neuroscience Investigator Award, the Jennett-Plum Award for Research on Traumatic Brain Injury, the Distinguished Career Award by the International Neuropsychological Society, the American Congress of Rehabilitation Gold Key Award, the Distinguished Lifetime Contribution to Neuropsychology Award from the National Academy of Neuropsychology, as well as awards from other head injury and psychological organizations, including the International Brain Injury Association, the National Head Injury Foundation, the North American Brain Injury Society, Texas Psychological Association, and the Defense and Veterans Brain Injury Center. In addition to his stellar scientific accomplishments, Dr. Levin trained, mentored,

and provided supervision to interns, fellows, postdocs, residents, medical and psychology students. He was the Director of an NCMRR/NIH T32 Postdoctoral Research Program, and training supervisor in neuropsychology for Baylor College of Medicine and for the Memorial Hermann TIRR Neuropsychology Postdoctoral Fellowship Programs. A passionate educator, he taught classes at Baylor College of Medicine, the University of Houston, and the National and Kapodistrian University of Athens Medical School in Greece and served as an evaluator for the American Board of Clinical Neuropsychology/American Board of Professional Psychology. He was often invited as a lecturer at numerous scientific organizations.

The main objective of this symposium is to provide an overview of the current state of research in TBI while highlighting Dr. Levin's contributions to this field. The symposium will start with a brief overview of Dr. Levin's career (Dr. Randall S. Scheibel), followed by presentations focused on the assessment of adult TBI, including posttraumatic amnesia (Dr. Felicia C. Goldstein), the current state of pediatric TBI (Dr. L. Ewing-Cobbs), and novel imaging in TBI (Dr. Erin D. Bigler). There will be a brief discussion session at the end lead by Dr. Elisabeth A. Wilde.

Symposium 07: Early Development in Infants and Toddlers with Agenesis of the Corpus Callosum

4:00 - 5:25pm

Thursday, 2nd February, 2023

Town & Country Ballroom B

Chair

Lauren Haisley

University of Minnesota, Minneapolis, USA

Lynn Paul

California Institute of Technology, Pasadena, USA

Summary Abstract: