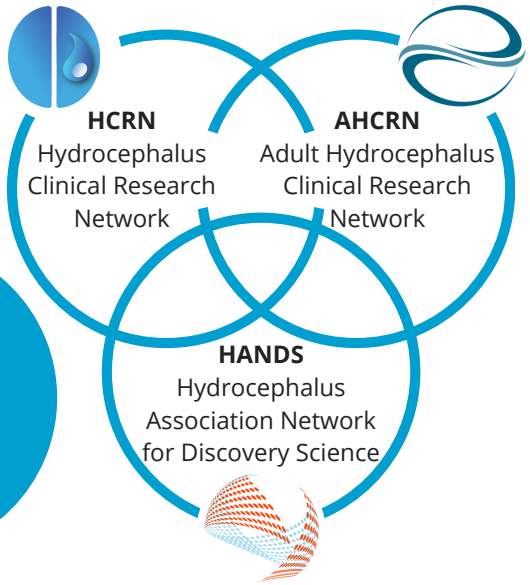
Hydrocephalus Association

HYDROCEPHALUS IN **CALIFORNIA**

HYDROCEPHALUS IS A CHRONIC NEUROLOGICAL CONDITION THAT HAS NO CURE. ANYONE AT ANY TIME CAN DEVELOP HYDROCEPHALUS, FROM INFANTS TO SENIORS. THE ONLY TREATMENT REQUIRES BRAIN SURGERY.

TOGETHER TOWARDS A CURE



PAGE 2 for a full listing of funded hydrocephalus research in California

MEMBER Hydrocephalus Clinical Research Network (HCRN)
Children's Hospital of Los Angeles, University of Southern California

$15.5M HA INVESTMENT

$87M ADDITIONAL GRANTS

MAKING AN IMPACT

The Big Picture

2 Clinical Research Networks

1 Basic & Translational Research Network

2 Biobanks

1 Hydrocephalus Patient-Powered Registry

36% Decrease in Shunt Infection Rates

12 Preclinical Drug Therapies in testing

2 New Patent for a Drug Target

1 FDA Investigational New Drug Application

WALKS TO END HYDROCEPHALUS

Sacramento, Vernon St Town Sq, Roseville, Sept 14, 2024
SoCal, Downtown Redondo Beach, September 14, 2024
San Francisco, Little Marina Green, November 9, 2024
Fresno, Woodward Regional Park, October 27, 2024
Orange County, Huntington Beach, October 20, 2024

hydroassoc.org/walk
walk@hydroassoc.org



COMMUNITY SUPPORT GROUPS

Los Angeles Community Network | State-wide Online Facebook Group
One-on-one Peer Support Volunteers

Hydrocephalus Association

CONTRIBUTIONS TOWARD A CURE

THE SCRIPPS RESEARCH INSTITUTE

2010 Hydrocephalus Association **$110,000**
Determine the role of the small lipid, lysophosphatidic acid or LPA, in fetal hydrocephalus. Principal Investigators: Yung, Yun & Chun, Jerold

2014-2018 NIH NINDS **$2,556,511**
Prenatal blood-borne lipids in post-hemorrhagic hydrocephalus. Principal Investigators: Yung, Yun & Chun, Jerold (follow on funding from HA grant)

2016 DOD CDMRP **$2,330,238**
New Hydrocephalus Therapies Through Interruption of Lipid Signaling and Inflammatory Pathways Using Novel Drug-Like Compounds. Principal Investigators: Yung, Yun & Chun, Jerold (follow on funding from HA grant)

UNIVERSITY OF CALIFORNIA SAN DIEGO

2011 Hydrocephalus Association **$110,000**
Determine the role of the peptide hormone augurin in CSF fluid homeostasis. Principal Investigator: Podvin, Sonia

2021 NIH NICHD **$1,417,141**
Developmental Mechanisms of Human Meningomyelocele. Principal Investigator: Gleeson, Joseph

LOMA LINDA UNIVERSITY

2017 Hydrocephalus Association **$50,000**
Understand how Germinal Matrix Hemorrhage (GMH) interferes with the CSF reabsorption process. Principal Investigators: Ding, Yan & Zhang, John

2017-2022 NIH NINDS **$1,728,125**
Cerebrospinal Fluid Dynamics in Posthemorrhagic Hydrocephalus in Neonates Principal Investigator: Tang, Jiping (follow on funding from HA grant)

2021 NIH NINDS $395,000
Harnessing blood clot clearance mechanisms after germinal matrix hemorrhage. Principal Investigators: Ding, Yan & Zhang, John

SCINTILLON INSTITUTE

2018 Hydrocephalus Association $300,000
Test a new way to deliver drugs to the newborn brain. Principal Investigator: Yung, Yun

SANFORD BURNHAM PREBYS MEDICAL DISCOVERY INSTITUTE

2018 Hydrocephalus Association **$1,500**
Altered DNA content in Hydrocephalus. Travel Award. Principal Investigator: McDonald, Whitney

STANFORD UNIVERSITY

2021 NIH NIBIB **$81,831**
Flexible and Wireless Bioelectronics for Continuous Monitoring of Intracranial Pressure. Principal Investigator: Khalifehzadeh, Razieh

2022 Hydrocephalus Association Innovator Award
Principal Investigator: Fame, Ryann

UNIVERSITY OF CALIFORNIA BERKELEY

2021 NIH NINDS **$504,197**
Choroid Plexus Multi-Sensory Cilia Regulate Production of Cerebrospinal Fluid. Principal Investigator: He, Lin

UNIVERSITY OF CALIFORNIA AT DAVIS

2021 NIH NIGMS **$314,000**
EFHC gene function in ciliary axomenes. Principal Investigator: Winey, Mark

UNIVERSITY OF CALIFORNIA, SAN FRANCISCO

2021 NIH NINDS **$125,010**
– Investigating Functional Ependymal Cell Heterogeneity in the Ventricular System. Principal Investigator: Redmond, Stephanie

2021 NIH NINDS **$477,471**
Structure and function of a novel population of regenerating ependymal cells. Principal Investigator: Alvarez-Buylla, Artuto

2021 NIH NINDS **$666,598**
Defective heme transport in the development of congenital hydrocephalus. Principal Investigator: Arnold, Thomas Darmody

2023 Hydrocephalus Association **$50,000**
Principal Investigator: Rauschecker, Andreas

UNIVERSITY OF CALIFORNIA, DAVIS
PACIFIC NEUROSCIENCE INSTITUTE
KECK MEDICINE AT USC

2021-2026 NIH NINDS Grant **$14,000,000**
Placebo-Controlled Effectiveness of Idiopathic Normal Pressure Hydrocephalus Shunting

SENSEER HEALTH INC.

2023 DOD CDMRP
Develop internal device that monitors information about a shunt's intracranial pressure. Principle Investigator: Lee, Sascha