Hydrocephalus Association

HYDROCEPHALUS IN **CONNECTICUT**

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

HCRN
Hydrocephalus Clinical Research Network

AHCRN
Adult Hydrocephalus Clinical Research Network

HANDS
Hydrocephalus Association Network for Discovery Science

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for a full listing of funded hydrocephalus research in Connecticut

$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



COMMUNITY SUPPORT GROUP

Hartford Community Network
State-wide Online Facebook Group
One-on-one Peer Support Volunteers

Hydrocephalus Association

CONTRIBUTIONS TOWARD A CURE

YALE SCHOOL OF MEDICINE

2016 Hydrocephalus Association **$50,000**
Understand the role of the Choroid Plexus Epithelium (CPE) in posthemorrhagic hydrocephalus (PHH). Principal Investigator: Kahle, Kristopher

2017 Hydrocephalus Association **$50,000**
Understand the role of the Choroid Plexus Epithelium (CPE) in postinfectious hydrocephalus. Principal Investigator: Kahle, Kristopher

2018 Hydrocephalus Association **$294,312.98**
Identify and test new drug targets to prevent postinfectious hydrocephalus. Principal Investigator: Kahle, Kristopher

2018-2023 NIH NINDS **$1,832,030**
Modulation of choroid plexus immuno-secretory function to restore cerebrospinal fluid homeostasis in hydrocephalus. Principal Investigator: Kahle, Kristopher (follow on from HA funding)

2021 NIH NINDS **$486,258**
Human genetics and molecular mechanisms of congenital hydrocephalus. Principal Investigator: Kahle, Kristopher

2021 NIH NICHD **$30,891**
Role of TRIM71 in neural stem cell biology and congenital hydrocephalus. Principal Investigator: Phan, Duy

2021 Hydrocephalus Association **$1,500**
Genes involved in DNA packaging and reading implicated in congenital hydrocephalus development. Travel Award. Principal Investigator: Mekbib, Kedous

2022 NIH NINDS **$2,794,767**
Analysis of Congenital Hydrocephalus Genes In Xenopus. Principal Investigator: Deniz, Engin

YALE UNIVERSITY

2019 Hydrocephalus Association **$49,999**
Understanding the role of cilia in post-traumatic hydrocephalus. Principal Investigator: Deniz, Engin

YALE UNIVERSITY CON'T

2020 NIH NINDS **$30,375**
The Role of Pten in Congenital Hydrocephalus. Principal Investigator: Despenza, Tyrone

2020 Hydrocephalus Association **$1,500**
HA – A role for inflammation: TLR-4-mediated cerebrospinal fluid hypersecretion in post-hemorrhagic and post-infectious hydrocephalus. Travel Award. Principal Investigator: Karimy, Jason

2020-2022 NIH NINDS **$432,988**
Xenopus as a Model System for Hydrocephaly and Ependymal Ciliogenesis. Principal Investigator: Deniz, Engin (follow on from HA funding)

2021 NIH NCCIH **$737,021**
Lymphatics-Glymphatics in CNS Fluid Homeostasis. Principal Investigator: Benveniste, Helene

UNIVERSITY OF CONNECTICUT SCH OF MED/DNT

2020 NIH NIGMS **$407,224**
Molecular Analysis of Flagellar Dynein Function. Principal Investigator: King, Stephen

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2017 Hydrocephalus Association **$75,000**
Post-infectious hydrocephalus: Developmental sensitivities based on stem cell niche and ependymal lining status. Principal Investigator: Conover, Joanne

2020-2025 NIH NINDS **$1,760,940**
Disease Mechanisms of Prenatal and Pediatric Acquired Hydrocephalus. Principal Investigator: Conover, Joanne (follow on from HA funding)

2021 HA/Rudi Schulte Research Institute **$50,000**
Single-cell multiplex characterization of the inflammatory response in congenital post-infectious hydrocephalus. Principal Investigator: Conover, Joanne

2022 Hydrocephalus Assoc Travel Award **$1,500**
Effect of Post-Infectious Hydrocephalus on the Developing Ventricular-Subventricular Zone Stem Cell Niche. Principal Investigator: Herman, Juliana