

The Marker

The 2022 HDSA Research Report



Navigating the Complex Maze of Huntington's Disease Research



The Marker The 2022 HDSA Research Report

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HDSA Mission Statement

HDSA Research in 2022: Innovation and Community

Message from Arik Johnson, PsyD

HDSA Chief Mission Officer



Research is a cornerstone of the Huntington's Disease Society of America's mission. In our commitment to improving the lives of all people affected by Huntington's disease, HDSA both invests in science by directly funding research in the lab and connecting HD families to participate in the clinical research

necessary to develop new potential treatments. This year's issue of *The Marker* is filled with reports showcasing HDSA funded scientists and collective efforts to support the development of new therapeutics.

The world of HD science, especially as of late, is filled with ups and downs. However, for every clinical trial that ends, there are new trials beginning and even more happening in pre-clinical research. Those "failures" actually provide data that is incorporated into the broader HD science landscape and inspires further innovation. This leads to better understanding HD processes and unlocks opportunities for potential treatments to keep the field of HD science moving forward.

Research is also a fundamental element in all HDSA Mission programs and services. Our Educational Program features scientific updates at both local and national events, like the HDSA Annual Convention. HDSA Social Workers and Support Group Leaders regularly field questions from the community about studies and trials and connect them to HDTrialfinder.org. Our Disability Program and Advocacy efforts are guided by all that has been discovered and informed by the work happening today to increase access to care.

Research is truly the key to solving the mysteries of HD and unlocking methods of treating symptoms and the disease itself. Your ongoing support of HDSA's research programs and the larger mission makes this important work possible. Thank you for your continued partnership in the fight against HD.

Please enjoy this edition of *The Marker* and cheers to the year ahead.

Message from Leora Fox, PhD

HDSA Assistant Director, Research & Patient Engagement



As the year draws to a close, I reflect upon the many opportunities HDSA had in 2022 to support fantastic Huntington's disease science, share research news with the community, and amplify family voices in drug development. 2022 brought a diverse and expanded portfolio of scientific approaches, rooted in a commitment

to human-centric discovery and career development in HD research. In this year's edition of *The Marker*, we highlight current fellows' exciting findings, as well as past award recipients who have developed into independent investigators.

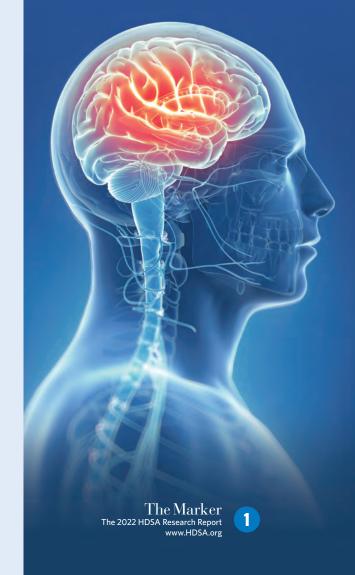
Our direct research funding programs support passionate people advancing HD science in ways that will directly impact clinical trials, and who are becoming mentors of the next generation of HD researchers. The breadth of HDSA-supported work continues to expand, from innovative molecular applications, to understanding racial disparities in HD diagnosis, to rigorous clinical study of the benefits of dance, to improvements in palliative care. Our wide community reach, strong partnerships with industry, and the influence of HD family voices in drug development, are reflected in data surrounding the use of HDSA research resources like HD Trialfinder.

As in-person educational events and forums for scientific innovation began to resume in 2022, HDSA continued to be a trusted source of reliable information about HD science, information about opportunities to participate in research, hope in new directions, and support in the face of clinical setbacks.

I believe strongly that community engagement with research is a form of advocacy, and an understanding of progress should be accessible to all. Thank you for your support of HD research and care, and for reading *The Marker*.

A Focus on Human Biology and the HD Clinic

Although animal models have been instrumental to our understanding of HD biology, the most relevant scientific observations are those that are made in humans and human tissues. For this reason, HDSA has adopted a patient-centric research strategy, with the HD Human Biology Project as its cornerstone. Clinical Research Pilot Grants are also available to medical professionals associated with HDSA Centers of Excellence. To date, HDSA has committed more than \$6.25 million dollars to support these programs.



2022 Human Biology Project Fellowships



Following review of applications by HDSA's expert Scientific Advisory Board, six scientists were awarded the 2022 HDSA Human Biology Fellowship. These awards are open to people at any career stage, location, or institution, and provide up to \$150,000 to support a two-year human-centric research project, from small

human trials to the study of human cells in a dish. This year's cohort includes researchers from Hungary, Spain, the United Kingdom, and the United States, and spans a diverse scientific range. We look forward to hearing about their progress in the months and years to come.





Ines Bras, PhD
Postdoctoral Scholar
University of Central Florida

Non-Invasive HD Biomarkers

Dr. Bras has shown that huntingtin protein can be found in extracellular vesicles, small sacs that are shed from brain cells. Over the course of this project, she will work with mentor **Dr. Amber Southwell** to refine techniques for detecting these vesicles in blood donated by people with HD. This project could produce a new and less invasive biomarker — a potential way to track the effectiveness of huntingtin-lowering therapies over the duration of a clinical trial.



Lea Danics, PhDPostdoctoral Scientist
Semmelweis University (Hungary)

Identifying Novel Therapeutic Targets in HD

Under the mentorship of **Dr. Karolina Pircs,** Dr. Danics' project will utilize
a model system in which human skin
cells donated by people with HD can
be directly converted in a dish into brain
cells, retaining properties of the donors
in a way that better reflects the adult
onset of HD. This cutting-edge system
will enable Dr. Danics to investigate the
biological pathways that control the
breakdown of toxic huntingtin, which
could be applied to drug development.



Paul Dennis, MFAProfessor and Chair, Dance Department
Hunter College, CUNY

Dance for Huntington's Disease

While regular exercise is often recommended for people with HD, there are no rigorous clinical studies examining the use of dance as an intervention to improve daily functioning and quality of life.

Mr. Dennis has partnered with a team of HD-experienced physical therapy and neurology specialists for a clinical pilot to generate data supporting the safety and benefits of a non-pharmacological intervention for Huntington's disease.



Maria Rosario Fernandez-Fernandez, PhD Senior Scientist

FINBA-ISPA (Spain)

Restoring Protein-Building Machinery

This work takes a new approach to exploring and correcting brain cell dysfunction in HD, aimed at the machinery that builds proteins from RNA recipes. Dr. Fernandez-Fernandez has found that this machinery is disorganized and tends to stall in HD. Her goal is to test existing chemical compounds with "stalling relief" properties in human cells, to restore their ability to produce proteins efficiently.



Kilian Hett, PhDPostdoctoral Research Fellow
Vanderbilt University

Studying the Flow of Cerebrospinal Fluid

Dr. Hett, an expert in neuroimaging analysis, will work under the direction of **Dr. Daniel Claasen**, Director of the HDSA Center of Excellence at Vanderbilt. He will use non-invasive MRI imaging to investigate circulation of the fluid that bathes the nervous system, known as cerebrospinal fluid (CSF). Understanding how CSF flow changes in HD has implications for improved spinal delivery of huntingtinlowering drugs.



Mitsuko Nakajima, MBChB, MPhil Clinical Research Fellow University College London

Visualizing Brain Changes in Pre-Symptomatic HD

Whether HD begins deep inside the brain and spreads to the outer layers, or vice versa, is currently unknown.
Under the mentorship of renowned HD clinician-researcher **Dr. Sarah Tabrizi,** Dr. Nakajima will use powerful imaging and EEG techniques to look at the structure and function of different brain layers in HD gene carriers. This will help to determine what brain changes are present before the onset of symptoms..



The 2022 Berman-Topper Career Development Fellowship



Fellowships

HDSA's vision of ensuring that the pipeline of passionate HD scientists and clinicians remains full is shared by the **Berman** and **Topper** families. With generous commitments exceeding \$2,640,000, HDSA has to date awarded 10 **Berman-Topper HD Career Development Fellowships** since the program's inception in 2016. These extraordinary young scientists have exceeded expectations, self-organizing to form a supportive network where they collaborate and troubleshoot their work.

A highly competitive application process led to the selection of **Dr. Sara Sameni** of California's

Salk Institute for Biological Studies as the 2022 recipient of the Berman-Topper Fellowship. She has unique expertise in biomedical engineering and mathematics. Under the mentorship of **Dr. Terry Sejnowski**, she is applying novel computational techniques to HD cells to create personalized models that can predict disease course and treatment response in people with HD.

In her very first quarterly report, Sarah simulated what happens to important signaling molecules when cells get sick over the course of HD, and showed how some of these changes might be corrected with an existing drug.



Dr. Sara Sameni

2022 Donald A. King Summer Research Fellowships



In 2005, HDSA launched the **Donald A. King Summer Research Fellowship** with the goal of attracting bright young scientists to HD research. The program was established to honor Don King, a tireless advocate for HD families who served as HDSA's Chairman of the Board

from 1999 to 2003 before his sudden passing in 2004. In 2022, HDSA's SAB selected five researchers to receive this fellowship, jumpstarting their research endeavors through the study of HD biology and pathology.



Manasa ChillarigeUniversity of Pittsburgh

Manasa worked with mentor **Dr. Diane Carlisle** to study whether activation of a specific protein pathway can protect brain cells from the negative effects of stress brought on by HD.



Carly FisherOhio State University

Carly investigated the role of a DNA repair protein in regulating CAG repeat expansion in Huntington's disease, under the mentorship of **Dr. Richard Fishel.**



Carolina Gomez Casas
UMass Medical School

Carolina worked with **Dr. Michael Brodsk**y to determine how a
CRIPSPR-Cas9 system may be
used to reduce CAG expansions
in the mutated HD gene.



Anthony Ventimiglia *Ohio State University*

Anthony was mentored by **Dr. Richard Fishel,** and studied protein complex MLH1-PMS1, which plays a role in repair of CAG repeat expansions in Huntington's disease.



Katherine VinskiUniversity of Pittsburgh

Katherine studied how crosstalk between two protein pathways affects stress response in HD and how they might be regulated, under the mentorship of **Dr. Diane Carlisle.**



"I would like to express my sincerest gratitude to the donors that supported my work this summer. I learned more than I could have imagined and have truly enjoyed every moment I spent in lab. Thank you to HDSA for your generosity and continued support of young researchers like myself."

ANTHONY VENTIMIGLIAOhio State University

"I am grateful to HDSA for giving me this opportunity. I learned so much in lab that I never would have been able to learn in a classroom, both about research in general and about Huntington's disease. I hope to continue to use the skills and knowledge I have learned in future research. I am very grateful to have been able to work with an incredible team for such an important cause."

KATHERINE VINSKI

University of Pittsburgh







By the Numbers



\$1,896,333 was awarded by HDSA in 2022



300% growth since 2015



93% of HDSA Centers of Excellence provide clinical research



55HDSA Centers of Excellence nationwide



35 states including the District of Columbia



HDSA Center of Excellence partner sites nationwide

Continued





The 2022 HDSA Centers of Excellence Grantees



Albany Medical College (NY)

Barrow Neurological Institute (AZ)

Beth Israel Deaconess

Columbia Health Sciences/NYS

MedStar Georgetown University

Henry Ford Hospital (MI)

Indiana University

Johns Hopkins University (MD)

Massachusetts General Hospital

Medical University of

Ochsner Health System (LA)

Ohio State University

Oregon Health & Science University*

Rocky Mountain Movement Disorders Clinic (CO)

Rowan University School of Medicine & Rutgers University RWJ Medical School (NJ)

Medical Center (MA) Cleveland Clinic (OH)

Psychiatric Institute (NY)

Duke University (NC)

Emory University (GA)

Hospital (DC)

Hennepin Health Care (MN)

South Carolina

Northwestern University (IL)

* Blue text indicates newly designated HDSA Center of Excellence or Partner Sites for 2022.

Rush University Medical Center (IL)

Sanford Health (ND)

Stanford University (CA)

Stony Brook University Hospital (NY)

University of Alabama, Birmingham

• Partner Site: University of South Alabama

University of Arkansas

University at Buffalo (NY)

University of California, Davis Medical Center

• Partner Site: Kaiser Permanente (CA)

University of California, Irvine

University of California, Los Angeles

University of California, San Diego

University of California, San Francisco

University of Cincinnati (OH)

University of Colorado

University of Florida

University of Iowa

University of Kansas Medical Center

University of Louisville (KY)

University of Miami (FL)

University of Mississippi Medical Center

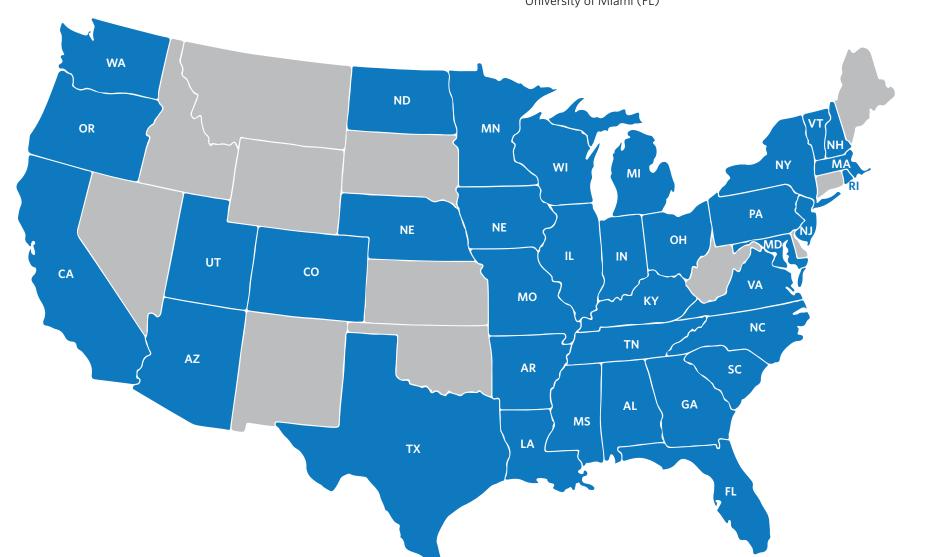
University of Nebraska Medical Center

University of Pennsylvania

• Partner Site: St. Luke's University Health Network, Bethlehem, PA*

University of Pittsburgh Medical Center (PA)

University of Rochester (NY)



University of South Carolina School of Medicine

University of South Florida

• Partner Site: Central Florida Center for Huntington's Disease, Winter Park and Orlando, FL*

University of Texas Health Science Center at Houston, McGovern Medical School

- Partner Site: Covenant Medical Group Neurology, Lubbock, TX
- Partner Site: Texas Movement Disorders Specialist, PLLC
- Partner Site: University of Texas Health San Antonio

University of Utah

University of Vermont, Frederick Binter Center for Parkinson's Disease and Movement Disorders

University of Virginia

University of Washington (WA)

• Partner Site: Selkirk Neurology, Spokane, WA*

University of Wisconsin

Vanderbilt University Medical Center (TN)

- Partner Site: Cole Neuroscience Center, University of Tennessee Medical Center
- Partner Site: University of Tennessee, Erlanger Medical Center

Virginia Commonwealth University

Washington University School of Medicine (MO)





Keeping On the Pulse of HD Research

HDSA is committed to involving the HD community in research, by keeping abreast of scientific advancements, ensuring that news is conveyed with accuracy and clarity, and providing information about research opportunities. We strive to meet these goals by attending conferences and communicating closely with industry partners. We then help families to navigate scientific and clinical twists and turns by creating spaces to share news, and producing understandable research content.

HD Research Conferences in 2022

As in-person gatherings resumed throughout 2022, HD researchers from academia and industry came together at field-wide meetings to share findings and discuss progress. HDSA staff were present to hear research updates and strengthen HDSA's partnerships at a variety of scientific conferences.

FEBRUARY

17th Annual HD Therapeutics **Conference: A Forum for Drug Discovery & Development** Palm Springs, CA

Hosted by CHDI Foundation, industry and academic scientists met to discuss their findings





HDSA's 37th Annual Convention Atlanta, GA

A variety of research programming was designed by HDSA for families, along with showcases of companies recruiting clinical studies

AUGUST

HD2022, the Hereditary Disease Foundation's (HDF) 12th Milton **Wexler Biennial Symposium** Cambridge, MA

This conference is devoted to academic and clinical research on HD and related rare diseases.

The editorial board of HDBuzz.

SEPTEMBER

European Huntington's Disease Network Plenary Meeting Bologna, Italy

This biannual plenary meeting highlights clinical progress from academic and industry researchers.

NOVEMBER

29th Annual Meeting of the **Huntington Study Group** Tampa, FL

The yearly HSG meeting focuses on clinical progress and is directed at medical professionals and families.

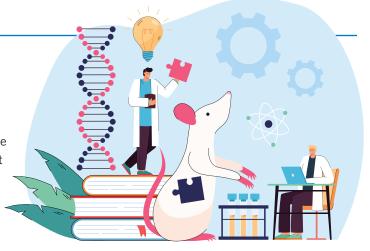


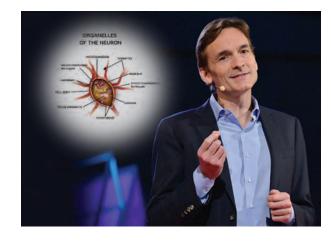


Hot Topics in HD Research

New Mouse Model Aids Researchers

In early 2022, researchers at UCLA published a new mouse model for HD, called **BAC-CAG**, that mimics CAG-repeat expansion in humans more closely than previous mouse models of the disease. It could help us better understand how instability in the CAG repeat region of the huntingtin gene sets the course of HD in humans.





Advancements In Zooming In On Single Cells

2022 brought technological advances allowing researchers to zoom in on single cells and examine changes in hundreds of genetic messages and proteins simultaneously. This is allowing scientists like Harvard's **Dr. Steve McCarroll** to investigate why certain brain cells are most vulnerable in HD.

HD Integrated Staging System — A New Classification System for HD

In mid-2022, a worldwide team of HD researchers published a classification system for Huntington's Disease known as the **HD Integrated Staging** System (HD-ISS). Among its many applications is to provide a framework for



presymptomatic individuals who carry the HD gene. Dr. Sarah Tabrizi presented the HD-ISS at HDSA's Convention in June.

Enroll-HD Celebrates Ten Years

This year brought the tenth anniversary of Enroll-HD, a worldwide observational study that follows people in HD families over time. This study and its thousands of participants continue to be a driving force for pharmaceutical intervention and improving our understanding of HD biology.







2022 Developments In Clinical Research

There are currently dozens of companies working in the HD research space, developing drugs to treat HD from many different scientific angles. Numerous players are in the early phases of HD drug development; others are further along in their clinical investigations of treatments for HD. Here we provide some highlights to help you navigate the news around their progress in 2022.

Annexon Biosciences completed in 2022 a successful safety trial of ANX-005, a drug aimed at preserving



the connections between brain cells. They announced in August that they are

planning for a larger Phase 2 trial in people with Huntington's disease.

AskBio announced in late August 2022 that they were approved to begin a Phase 1/2 trial for a novel HD



gene therapy, BV-101. The AskBio trial will take place in France, and the drug aims to improve

cholesterol metabolism in order to preserve the function of brain cells and lower huntingtin protein.

LoQus23 Therapeutics is focused on developing oral drugs to stop the expansion of CAG repeats.



In May 2022 they announced an international collaboration to develop tools and

therapies to monitor and slow the rate at which the repeat grows.

Neurocrine Biosciences reported successful control of HD chorea in the Phase 3 KINECT-HD trial of



valbenazine. This is a **eurocrine** once-daily pill to help with Huntington's

disease movement symptoms, and they are now applying to regulatory agencies for approval

Novartis tested an oral huntingtin-lowering therapy, branaplam, which was originally developed for a different childhood disorder. The Phase 2 VIBRANT-HD trial was suspended in August 2022 due to concerns about peripheral neuropathy, and unfortunately, development of (I) NOVARTIS

branaplam ended in December. Despite this

disappointing conclusion, Novartis remains committed to learning as much as possible about the effects of branaplam and making that knowledge available to the HD community for the benefit of future drug development.

Prilenia Therapeutics is running the PROOF-HD Trial of pridopidine, a drug aimed at protecting brain cells to slow the prilenia progression of HD. They fully recruited this 600-person Phase 3 study in 2022, and will share the results in the second half of 2023.

PTC Therapeutics is also developing an oral huntingtin-lowering therapy, PTC-518, which was designed for HD. Their 1-year Phase 2 trial is called PIVOT-HD and began recruiting in mid-2022, with an expansion of eligibility criteria in November. It is currently moving forward in

Australia and Europe in people with pre-motor and motor symptoms. PTC is seeking approval from the FDA to continue the trial as planned in the US.

Roche announced in November 2022 that a new trial of the spinally delivered huntingtin-lowering drug tominersen will begin recruiting early next year. After the Phase 3 GENERATION-HD1 trial was halted in 2021 due to concerns about long-term safety, Roche



presented data during 2022 suggesting that younger people who began the trial with less severe symptoms may have

benefited from tominersen. For this reason, they took a step back and will proceed with a Phase 2 trial, GENERATION-HD2. They also confirmed their commitment to HD by announcing that they have two additional huntingtin-lowering drugs in their pipeline, one spinal and one oral.

Sage Therapeutics began running the DIMENSION and SURVEYOR trials in people with HD to test



Therapeutics™

SAGE-718, an oral drug aimed at preserving thinking abilities and day to day

function. These trials began in mid-2022 and are recruiting participants at sites across the USA.

Spark Therapeutics is working on an innovative



approach that aims to turn the brain's support cells into new neurons. They have partnered with NeuExcell to develop a gene therapy for HD.

uniQure is conducting a small clinical trial (Phase 1/2) of the first gene therapy for HD (AMT-130), delivered to the brain via surgery. Promising safety and huntingtin-

lowering was reported in June 2022 for participants who

received a low dose; a pause was initiated in the high dose group in August, but surgeries resumed in November with new safety measures in place. More results are expected in mid-2023.



SIGNAL trial of pepinemab for HD, which concluded in 2020. Although the study ACCINEX did not meet its primary endpoints, some data

suggested potential cognitive benefits of the drug.

Wave Life Sciences is also testing a spinally delivered huntingtin-lowering therapy, WVE-003, in a Phase 1/2

trial in people with HD in Canada and Europe. Their focus is the harmful form of huntingtin, and the drug has a redesigned chemistry that will hopefully allow Wave to overcome the roadblocks they



faced in 2021, when the PRECISION-HD trials were halted due to lack of huntingtin-lowering.



Supporting HD Research Participation and Advocacy

HDSA's research communications, resources for participation in research, and global research advocacy programs seek to ensure that families can find hope in progress, make informed choices about participation, and have a voice in the drug development process. Our goal is to guide families through the HD media maze and provide accurate and up-to-date information.

HDSA Research Communications



Research Webinars

HDSA Research Webinars give academic and industry scientists a direct forum to share their latest findings with families.



HDBuzz

HDSA supports **HDBuzz**, a website devoted to clear and effective communication about HD research and clinical studies.



HDSA Online

Research news and press releases are vetted and posted on HDSA's website news feed and social media channels.



This Week in HD Research

Kelly Andrew and **Dr. Leora Fox** provide a roundup of HD research activities in HDSA's blog, *This Week in HD Research.*

RESEARCH ADVOCACY

Huntington's Disease Coalition for Patient Engagement (HD-COPE)

Now expanding and in its fifth year, **HD-COPE**



continues to provide family input to help industry researchers better understand HD and to guide their clinical plans. The worldwide group of volunteer advocates met virtually and

in-person during 2022 with several pharmaceutical and biotech companies.

HDSA-Vetted Survey Studies

Researchers, healthcare professionals, and students studying HD frequently need input from the HD community on different topics relevant to HD families. More than a dozen HDSA-vetted surveys were featured on our website in 2022, with opportunities for everyone in the community.



HD Trialfinder

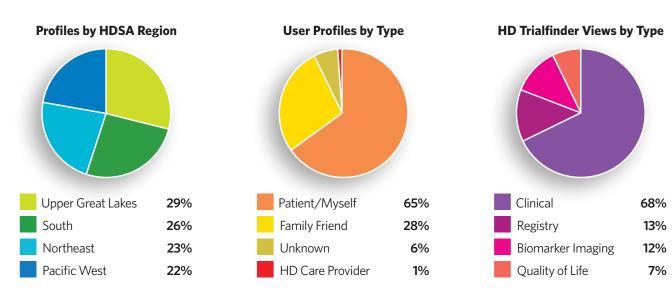
HDSA's HD Trialfinder (www.hdtrialfinder.org) is a website, call center, and clinical trials matching service created by HDSA in 2015 to help families learn about and participate in HD clinical trials. HD Trialfinder is powered and programmed by Carebox, which provides anonymous user data to HDSA. HDSA was selected by the Huntington Study Group to present a poster at their November 2022 conference on community use of HD Trialfinder. Below are the key findings from this analysis.

Usage of HD Trialfinder is even across HDSA's main regional development areas, highlighting the reach of our

resources and interest in clinical trials across the USA.

Users are mainly creating profiles for themselves or a family member, and are most commonly seeking and viewing information about clinical studies. This finding can help HDSA to strengthen the messaging to clinical researchers that it is valuable to present opportunities in understandable language.

Site views and profiles on HD Trialfinder peaked in response to major clinical trial news, speaking to HDSA's wide reach and strong partnerships with industry.



Unique Web Sessions Over Time



HDSA Award-Winning Scientists Continue Ground-Breaking Work

Former HDSA Human Biology Fellows Continue to Innovate

Several scientists published academic papers in 2022 detailing their findings supported by the Human Biology Fellowship.



Dr. Edith Pfister

2018 Human Biology Project Fellow, Dr. Edith Pfister, works on chemical engineering of genetic therapies for brain diseases.
A recent publication in *Nature Communications* explored a novel siRNA drug design and showed that it could silence the harmful huntingtin message in a mouse model of HD.



Dr. Veronica Brito

Dr. Veronica Brito, 2016 Human Biology Project award recipient, examines changes in RNA metabolism in HD and how they may damage brain tissue over the course of the disease. A study published in *Cellular and Molecular Life Sciences* this year looked at how this phenomenon affected learning and memory in HD mice, which could be a new treatment target for HD.



Dr. Ali Khoshnan

2017 Human Biology Project
Fellow, Dr. Ali Khoshnan, works
to understand how changes in gut
microbiota affect HD symptoms
and onset in fruit flies. A study
recently published in Frontiers
in Neuroscience shows that
when HD fruit flies are exposed
to certain bacteria, they experience more rapid onset of HD-like
symptoms.

HDSA-Supported Scientists Blossom

HDSA's Research Fellowships have supported awardees through important career transitions; these HD-committed scientists have gone on to start laboratories of their own and are training the next generation of HD researchers.



Dr. Amber Southwell

Dr. Amber Southwell, 2015
Human Biology Fellow, became
a professor during her fellowship
and continues to run an independent HD laboratory at the University of Central Florida, where she
has trained several Donald King
Summer Research Fellows and
is now mentoring 2022 Human
Biology Project Fellow, Dr. Ines Bras.



Dr. Melanie Alpaugh

During her fellowship,
2020 Human Biology Fellow
Dr. Melanie Alpaugh obtained
a faculty position at Guelph
University (Canada) where
she will run her own HD lab
and continue to work on blood
biomarkers of cognitive changes
in Huntington's disease.



Dr. Lauren Byrne

At the conclusion of her HDSA award period, 2019 Berman-Topper Fellow Dr. Lauren Byrne was named the recipient of a prestigious Medical Research award in the UK. Lauren's HDSA fellowship supported her transition to an independent research lab at University College London, and her new award will devote unprecedented funding to the study of Juvenile HD.

2022 HDSA Scientific Advisory Board

We are grateful to the HDSA Scientific Advisory Board (SAB) members who generously volunteer their time and talent to ensure that HDSA's research programs are scientifically sound and maximally impactful for the HD community. The HDSA SAB is comprised of leading researchers and clinicians in HD and related fields, as well as HD community members with a passion for research. Additionally, the SAB advises HDSA management and its Board of Trustees on a range of issues influencing the scientific direction of the Society.



Neil Aronin, MD Professor and Chairman of Endocrinology anåd Metabolism, UMass Medical School



Susan Browne, PhD Executive Director, Acadia Pharmaceuticals



Jeff Carroll, PhD Associate Professor of Neurology University of Washington





Tanya Garcia, PhD

University of North Carolina

Associate Professor,

HDSA Scientific Advisory

Board Chair, Professor, University of California at Irvine

Blair Leavitt, MD, PhD Professor, University of British Columbia



Michelle Grav, PhD Assistant Professor, University of Alabama-Birmingham



David Howland, PhD

Director, CHDI Foundation

Harry Orr, PhD University of Minnesota



Dr. Holly Kordasiewicz

V.P. of Neurology Research,

Ionis Pharmaceuticals

Assistant Professor, University of Central Florida



Community Representative





Marcy MacDonald, PhD

School, Mass General Hospital

Professor, Harvard Medical



OUR MISSION

To improve the lives of people with Huntington's disease and their families.

OUR VISION

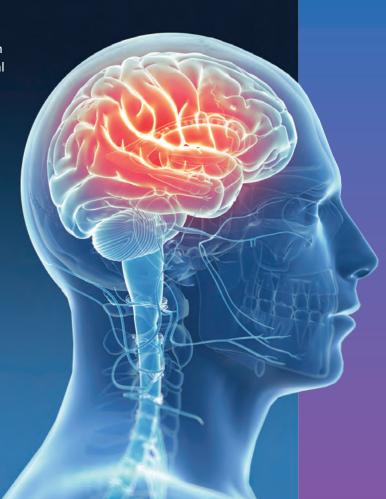
A world free of Huntington's disease.

Huntington's disease (HD) is a fatal genetic disorder that causes the progressive breakdown of nerve cells in the brain. It deteriorates a person's physical and mental abilities often starting in their prime working years. Currently, there is no cure for Huntington's disease.

HD is known as the quintessential family disease, because every child of a parent with HD has a 50/50 chance of carrying the faulty gene that causes Huntington's disease. Today, there are approximately 41,000 symptomatic Americans and more than 200,000 individuals at-risk of inheriting the disease.

The Huntington's Disease Society of America (HDSA) is the premier nonprofit organization dedicated to improving the lives of everyone affected by HD. From community services and education to advocacy and research, HDSA is the world's leader in providing help for today and hope for tomorrow for people with HD and their families.

Across the United States HDSA supports 50 volunteer-led Chapters & Affiliates, 55 HDSA Centers of Excellence, more than 60 social workers and 80 support groups specifically for HD families.



Huntington's Disease Society of America

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