

University of San Diego

Digital USD

---

At Risk for Huntington's Disease

Department of History

---

3-2-2018

## The best news for the Huntington's disease community since the discovery of the gene: Ionis trial data revealed, Roche confirms jump to Phase 3

Kenneth P. Serbin  
*University of San Diego*

Follow this and additional works at: <https://digital.sandiego.edu/huntingtons>



Part of the [Nervous System Diseases Commons](#)

---

### Digital USD Citation

Serbin, Kenneth P., "The best news for the Huntington's disease community since the discovery of the gene: Ionis trial data revealed, Roche confirms jump to Phase 3" (2018). *At Risk for Huntington's Disease*. 250.

<https://digital.sandiego.edu/huntingtons/250>

This Blog Post is brought to you for free and open access by the Department of History at Digital USD. It has been accepted for inclusion in At Risk for Huntington's Disease by an authorized administrator of Digital USD. For more information, please contact [digital@san Diego.edu](mailto:digital@san Diego.edu).





[International Huntington Association](#)  
[Huntington's Disease Drug Works](#)  
[Huntington's Disease Lighthouse](#)  
[Hereditary Disease Foundation](#)  
[Huntington's Disease Advocacy Center](#)  
[Thomas Cellini Huntington's Foundation](#)  
[HDSA Orange County \(CA\) Affiliate](#)  
[HD Free with PGD!](#)  
[Stanford HOPES](#)  
[Earth Source CoQ10, Inc.](#)

## HD Blogs and Individuals

[Chris Furbee: Huntingtons Dance](#)  
[Angela F.: Surviving Huntington's?](#)  
[Heather's Huntington's Disease Page](#)

For the first time, Dr. Tabrizi's presentation (plus an [Ionis press release](#)) specified the level of huntingtin reduction.

During the clinical trial, participants received the drug via spinal injections, and doctors measured the drug's ability to reduce the protein by extracting CSF samples.

IONIS-HTT<sub>Rx</sub> lowered mutant huntingtin an average of 40 percent, with a maximum reduction of 60 percent. As Dr. Tabrizi explained, projecting from the numerous, painstaking animal studies done by Ionis, the reductions in the cortex range from 55-85 percent.



*Frank Bennett, Ph.D., Ionis senior vice president of research and the franchise leader for neurology programs (left) and Anne Smith, Ph.D., Ionis director of clinical development (middle), confer with Dr. Tabrizi moments before the two women's historic presentation of the IONIS-HTTRx trial data. Dr. Bennett led the Ionis efforts to develop the drug (photo by Gene Veritas).*

The cortex – along with the striatum, which is critical to motor control and managing the reward system – is the area of the brain most affected by HD. It is the most developed area of the brain, the source of thought and language, abilities severely hampered by HD.

Watch Dr. Tabrizi in the short video excerpts below explain this data and thank the 46 brave clinical trial volunteers and the many others involved in the effort. I also recommend watching the full video – which includes further trial data and a helpful overview of the project by Anne Smith, Ph.D., of Ionis – by [clicking here](#).



## Ionis trial reduces bad Huntington's disease protein

from [Gene Veritas](#)

06:29 |



[Ionis trial reduces bad Huntington's disease protein](#) from [Gene Veritas](#) on [Vimeo](#).

### The plans for RG6042, the drug's new name

The presentation by Drs. Smith and Tabrizi – the first public presentation of the trial data – can perhaps help inspire the HD community and researchers to become engaged in the next, crucial step: testing the drug's efficacy.

Based on its partnership agreement with Ionis, Swiss pharmaceutical giant [Roche](#), which now holds the license to the drug, will carry out a longer trial with hundreds of participants, including sites in the U.S.

The main question: will symptoms of this progressive, deadly disease stabilize, or even be reversed?

In an interview at the conference, Roche officials told me that – as Ionis had indicated – the company would take the unusual step of skipping a Phase 2 trial (testing efficacy for the first time) and going directly to a Phase 3 (confirming efficacy in hundreds, or more, participants).

They pointed to the excellent results of the Phase 1/2a trial; Ionis' superb development of the drug; the nonprofit CHDI's expertise and leadership; and the enthusiasm from – and urgent need of – the HD community.

Roche has officially changed the name of IONIS-HTT<sub>Rx</sub> to RG6042. "R" stands for Roche, and "G" for Genentech, a major U.S.-based pharmaceutical company acquired by Roche in 2009 for \$46.8 billion. The number 6042 is a standard drug number assigned by the company. If Phase 3 is successful, a drug issued for commercial sale will get a brand name.

All U.S.-based Roche personnel and products still use the name Genentech.

Roche has not yet determined a start date or timeline for Phase 3. I will provide a detailed report on the interview and Roche's plans, and also my personal reactions to the conference, in upcoming articles.





*Members of the Roche HD clinical trial team watch Dr. Tabrizi's presentation. From left to right, Scott Schobel, M.D., M.S., clinical science leader of product development; Lauren Boak, Ph.D., global development team leader; Erik Lundgren, lifecycle leader of the HD program; and Mai-Lise Nguyen, the patient partnership director for the HD program (photo by Gene Veritas).*

#### **Time for excitement, but also caution**

CHDI Chief Scientific Officer Robert Pacifici, Ph.D., called the results of the Ionis trial “incredibly exciting.”

However, he also cautioned the HD community.

“Drug discovery is a really time-consuming and inefficient process, and, sadly, fraught with many failures,” Dr. Pacifici said. “The first time you put something into people, no matter how prepared, you never know whether it’s going to be safe and well-tolerated. What the initial trial showed was that at those doses, with the route of delivery, with that population of folks, it is indeed safe and well-tolerated. (If it wasn’t, it would stop in its tracks.) Once you get to this stage, a lot of the uncertainty about timelines goes away.

“This is really the time to be incredibly careful and incredibly deliberate. It’s going to take a while now to orchestrate the Phase 3 trial. That’s the pivotal trial that tells you whether or not the drug works.”

Everything needs to be done “by the book” to get a really “conclusive result,” he added.

If the trial fails, it will still provide scientists and physicians with guideposts for future research and trials, he said.

“We owe a huge debt of gratitude to those patients who signed up for that initial trial,” Dr. Pacifici concluded. “It’s going to require not only more of that type of participation, but a lot of patience.”

You can watch my interview with Dr. Pacifici about the conference and the Ionis trial in the video below.



## A time for excitement, but also great care and deliberation

from [Gene Veritas](#)

30:55 |



A time for excitement, but also great care and deliberation from [Gene Veritas](#) on [Vimeo](#).

\* \* \*

Ionis hosted a live webcast at 11 a.m. Eastern Time today. A webcast replay, including slides with clinical trial data, are available by [clicking here](#).

For detailed coverage of the HD conference presentations, visit [hdbuzz.net](#).

Visit my [Vimeo album](#), to be periodically updated in the coming weeks, for other presentations and interviews at the conference.

*(Disclosure: I hold a symbolic amount of Ionis shares.)*

Posted by [Gene Veritas](#) at [5:09 PM](#)



Labels: [Anne Smith](#) , [CHDI](#) , [clinical trials](#) , [gene silencing](#) , [HD Therapeutics Conference](#) , [Huntington's disease](#) , [Ionis Pharmaceuticals](#) , [Roche](#) , [Sarah Tabrizi](#) , [symptoms](#) , [treatments](#) , [University College of London](#)

1 comment:

**Jim Spiegel said...**

My daughter has HD and I was wondering what the process was for her to participate in a clinical trial

[5:29 AM, March 08, 2018](#)

[Post a Comment](#)

[Newer Post](#)

[Home](#)

[Older Post](#)

Subscribe to: [Post Comments \(Atom\)](#)