

HD Therapeutics Conference 2012 Updates: Day 3

Day 3 of our coverage of the Huntington's Disease Therapeutics Conference



By Dr Jeff Carroll

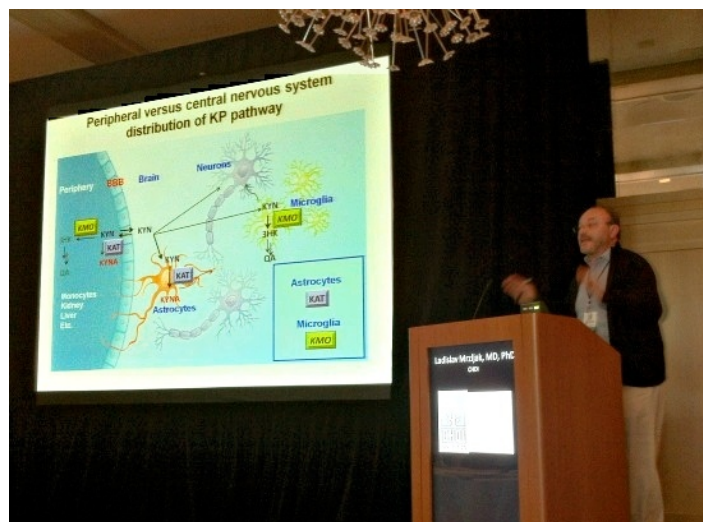
March 02, 2012

Edited by Professor Ed Wild

Our third and final daily report from the annual Huntington's Disease Therapeutics Conference in Palm Springs, California. We will be publishing a summary article and interviews from the conference over the next few weeks.

Thursday, March 1, 2012

9:10 - **Chris Schmidt** works for Pfizer, a pharmaceutical giant working with CHDI to develop new HD drugs



Ladislav Mrzljak: KMO inhibiting drugs might be able to take advantage of cross-talk between brain and immune system

9:23 - **Schmidt**: Drugs developed by Pfizer for other conditions, already tested for safety in humans, might be useful in HD

9:45 - **Schmidt**: Drugs that target enzymes called "phosphodiesterase" work well in healthy human volunteers, and might be useful in HD

9:59 - **Vahri Beaumont** of CHDI is leading the team testing Pfizer's drugs in mouse models of HD to understand if they're work testing in HD

10:01 - **Beaumont**: Brain cells in HD mice have clear changes at a very young age. Fixing these early changes is the goal of the Pfizer drugs

10:06 - **Beaumont**: Beautiful rescue of altered brain cell function in HD mice with Pfizer compounds - treated cells look much more normal

10:30 - **Schmidt**: Pfizer & CHDI planning clinical trials of PDE drugs. Preliminary work with patients hopefully 2012. HD drug trial 2013?

10:33 - **Schmidt**: Very early plans are being laid for a 2-year trial of a PDE-10 inhibitor drug in HD, if the work continues to go well

11:07 - **Ladislav Mrzljak** leads a team at CHDI developing novel drugs inhibiting "KMO", see our KMO inhibitor article for why this is good thing

11:14 - **Mrzljak**: KMO inhibiting drugs might be able to take advantage of cross-talk between brain and immune system

11:38 - **Mrzljak**: CHDI's top KMO-inhibition drug candidate is called CHDI-246. It performs well in lab tests of desirable chemical activity

11:41 - **Mrzljak**: studies of CHDI-246 are already underway in two mouse models and one rat model of Huntington's disease. Studying drugs in multiple mouse models helps prevent 'false positive' results to make sure only the best drugs reach human trials

12:01 - **Graham Bilbe** works for drug giant Novartis who are testing a drug called Mavoglurant that blocks receptors for the brain transmitter glutamate

12:04 - **Bilbe**: sometimes decades of work are required to prove that a drug is worth testing in people

12:07 - **Bilbe**: overactivity of the glutamate system has been suggested to be involved in many diseases

12:13 - **Bilbe**: From the unwanted movements that Parkinson's drugs can cause, Novartis got the idea that glutamate blockers might work in HD

"A lack of basic understanding is no longer the limiting factor in finding treatments for HD "

12:16 - **Bilbe**: Mavoglurant produced benefits in a small Parkinson's disease study, and is moving into larger trials

12:27 - **Bilbe**: Novartis' trial of Mavoglurant for HD movement symptoms has just finished, and the data are being analysed right now

14:14 - CHDI has hired **Christina Sampaio** as chief clinical officer - good news because she has lots of experience with drug trials

14:18 - **Sampaio**: to succeed in developing drugs for HD we need to close chapters, and not repeat trials with failed drugs

14:21 - **Sampaio**: We shouldn't try to run the longest, biggest, trials we can, but smart trials

14:41 - **Sampaio**: Other disease are contributing to HD - RNAi trials in Duchenne Muscular Dystrophy help us learn about the technique

14:48 - **Sampaio**: forthcoming trials will likely focus on people with HD symptoms because that's where treatment success can be measured.

14:50 - **Sampaio**: if other diseases are anything to go by, we may need several treatments to tackle HD. MANY approaches are being tested!

14:57 - **Sarah Tabrizi** (University College London) and her team have wrapped up the observational TRACK-HD trial, which was planned to run for 3 years

14:58 - **Tabrizi**: "A lack of basic understanding is no longer the limiting factor in finding treatments for HD"

15:18 - **Tabrizi**: changes in the brain seen with MRI can predict whether someone will go on to develop symptoms - trials should include MRI

15:25 - **Tabrizi**: The 3 year data from participants in TRACK-HD is hot off the presses and reveals changes that could be used in HD trials

15:29 - **Tabrizi**: Despite changes in the brains of people carrying HD mutations, they are able to compensate and act quite normally for years

15:37 - **Tabrizi**: A new study, TrackOn>HD, will try to understand how the brains of people with HD mutations compensate after loss

16:10 - **Mark Guttman** (Centre for Movement Disorders) asks the provocative question - "when do HD symptoms start?"



Simon Noble unveils CHDI's new logo

16:24 - **Guttman:** Doctors diagnose 'HD onset' based on abnormal movements. It's often difficult to be sure; uncertainty can be very worrying. Many HD-affected people and families report a 'spectrum' of symptoms before 'official' diagnosis.

16:37 - **Guttman** asks whether we should make this spectrum part of the diagnostic criteria, including things like MRI scans. One advantage of this may enable earlier treatment - if we can come up with drugs that work

16:40 - **Guttman:** A group of clinicians, scientists and patient representatives is working to examine this possibility

16:58 - **Michael Hayden** (University of British Columbia): many new HD genetic diagnoses are now made in people over the age of 60. Many people don't know they are at risk.

16:59 - **Hayden:** Because of increasing life expectancy, people who would previously have died of old age may now live long enough to get HD

17:00 - Prevalence is the name scientists use for how many people are affected by a condition at any time.

17:01 - **Hayden:** The true prevalence of Huntington's is probably much higher than previously thought

17:03 - **Hayden:** increasing awareness of HD has also brought more HD-affected people to medical attention

17:05 - **Hayden:** thorough search in British Columbia reveals the prevalence is twice as high as previously thought - at least 1 in 6,800

17:06 - **Hayden:** That means that as many as one in a thousand people in BC is at 25 or 50%

risk

17:16 - **Hayden**: these changes will require us to get better at diagnosing HD and mean that more funding for HD care is needed.

17:42 - **Simon Noble** unveils CHDI's logo- a tree made of molecules, representing HD families, connectedness and drugs!

18:02 - HDBuzz editors **Jeff** and **Ed** are describing HDBuzz to the therapeutic conference as we write

Dr Wild and Dr Carroll's registration fee for the Therapeutics Conference has kindly been waived by CHDI Foundation, Inc., sponsors of the Conference, but their attendance is supported by HDBuzz and the European HD Network, from funds independent of CHDI. CHDI has no input into the selection of subjects or the content of coverage on HDBuzz. [For more information about our disclosure policy see our FAQ...](#)

GLOSSARY

Parkinson's Disease A neurodegenerative disease that, like HD, involves motor coordination problems

Phosphodiesterase a protein that breaks down cyclic-AMP and cyclic-GMP

observational A study in which measurements are made in human volunteers but no experimental drug or treatment is given

therapeutics treatments

prevalence A figure estimating how many people there are in a particular population who have a certain medical condition.

glutamate a signalling chemical in the brain, or 'neurotransmitter'

RNA interference A type of gene silencing treatment in which specially designed RNA molecules are used to switch off a gene

magnetic resonance A technique using powerful magnetic fields to produce detailed images of the brain in living humans and animals

KMO kynurenine mono-oxygenase, an enzyme that controls the balance of harmful and protective chemicals resulting from the breakdown of proteins

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