UNITED STATES

SECURITIES AND EXCHANGE COMMISSION

WASHINGTON, D.C. 20549

FORM 8-K

CURRENT REPORT

Pursuant to Section 13 or 15(d) of the Securities Exchange Act of 1934

Date of Report (Date of earliest event reported): April 15, 2021

PTC THERAPEUTICS, INC.

(Exact Name of Company as Specified in Charter)

Delaware (State or Other Jurisdiction of Incorporation) 001-35969 (Commission File Number) **04-3416587** (IRS Employer Identification No.)

100 Corporate Court South Plainfield, NJ (Address of Principal Executive Offices)

07080 (Zip Code)

Registrant's telephone number, including area code: (908) 222-7000

			-		
	Not applicable				
		(Former Name or	Former Address, if Changed Since La	st Report)	
oelow):	Check the appropriate box below if the Form 8-K filing is intended to simultaneously satisfy the filing obligation of the registrant under any of the following provisions (see General Instruction :				
		Written communications pursuant to Rule 425 under the Securities Act (17 CFR 230.425)		
		Soliciting material pursuant to Rule 14a-12 under the Exchange Act (17 $$	CFR 240.14a-12)		
		Pre-commencement communications pursuant to Rule 14d-2(b) under th	ne Exchange Act (17 CFR 240.14d-2(b)))	
		Pre-commencement communications pursuant to Rule 13e-4(c) under the	e Exchange Act (17 CFR 240.13e-4(c))	
Securiti	es regi	egistered pursuant to Section 12(b) of the Act:			
		Title of each class	Trading Symbol(s)	Name of each exchange on which registered	
		Common Stock, \$0.001 par value per share	PTCT	Nasdaq Global Select Market	
		check mark whether the registrant is an emerging growth company as defined 12b-2 of this chapter).	d in Rule 405 of the Securities Act of 1	1933 (§230.405 of this chapter) or Rule 12b-2 of the Securities Exchange Act of	
Emergin	g grov	owth company \square			
f an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided ursuant to Section 13(a) of the Exchange Act.					
_		<u> </u>			

Item 7.01. Regulation FD Disclosure.

As previously announced, PTC Therapeutics, Inc. (the "Company") will host a webinar on April 15, 2021 at 9:00 a.m. eastern time. During this webinar, the Company expects to discuss its PTC518 Huntington's disease program and provide preliminary results from its Phase 1 study of PTC518 in healthy volunteers. A copy of the slide deck that will be presented during the webinar is attached as Exhibit 99.1.

The information in this Current Report on Form 8-K, including Exhibit 99.1, shall not be deemed "filed" for purposes of Section 18 of the Securities Exchange Act of 1934, as amended (the "Exchange Act,"), or otherwise subject to the liabilities of that section, nor shall it be deemed incorporated by reference in any filing under the Securities Act of 1933, as amended, or the Exchange Act, except as expressly set forth by specific reference in such a filing. All website addresses given in this Current Report or incorporated herein by reference are for information only and are not intended to be an active link or to incorporate any website information into this Current Report.

Item 9.01. Financial Statements and Exhibits.

(d) Exhibits

 Exhibit No.
 Description

 99.1
 Corporate Presentation – PTC.518 Huntington's Disease Deep Dive Webinar

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 The cover page from this Current Report on Form 8-K, formatted in Inline XBRL

Signature

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this Report to be signed on its behalf by the undersigned hereunto duly authorized.

PTC Therapeutics, Inc.

Date: April 15, 2021

By: /s/ Emily Hill
Name: Emily Hill
Title: Chief Financial Officer

Forward Looking Statements:

This presentation contains forward-looking statements within the meaning of The Private Securities Litigation Reform Act of 1995. All statements contained in this release, other than statements of historic fact, are forward-looking statements, inclustatements with respect to the future expectations, plans and prospects for PTC, PTC's strategy, including with respect to expected timing of clinical trials and studies, availability of data, regulatory submissions and responses and other matters, future operations, future financial position, future revenues, projected costs; and the objectives of management. Other forwlooking statements may be identified by the words "guidance", "plan," "anticipate," "believe," "estimate," "expect," "intend, "may," "target," "potential," "will," "would," "could," "should," "continue," and similar expressions.

PTC's actual results, performance or achievements could differ materially from those expressed or implied by forward-look statements it makes as a result of a variety of risks and uncertainties, including those related to: the outcome of pricing, coverage and reimbursement negotiations with third party payors for PTC's products or product candidates that PTC commercializes or may commercialize in the future; the enrollment, conduct, and results of ongoing studies under the SMA collaboration and events during, or as a result of, the studies that could delay or prevent further development under the program, including any regulatory submissions and commercialization with respect to Evrysdi; significant business effects, including the effects of industry, market, economic, political or regulatory conditions; changes in tax and other laws, regulations, rates and policies; the eligible patient base and commercial potential of PTC's products and product candidate PTC's scientific approach and general development progress; and the factors discussed in the "Risk Factors" section of PT most recent Annual Report on Form 10-K, as well as any updates to these risk factors filed from time to time in PTC's othe fillings with the SEC. You are urged to carefully consider all such factors.

As with any pharmaceutical under development, there are significant risks in the development, regulatory approval and commercialization of new products. There are no guarantees that any product will receive or maintain regulatory approval any territory, or prove to be commercially successful.

The forward-looking statements contained herein represent PTC's views only as of the date of this presentation and PTC c not undertake or plan to update or revise any such forward-looking statements to reflect actual results or changes in plans prospects, assumptions, estimates or projections, or other circumstances occurring after the date of this presentation excerequired by law.

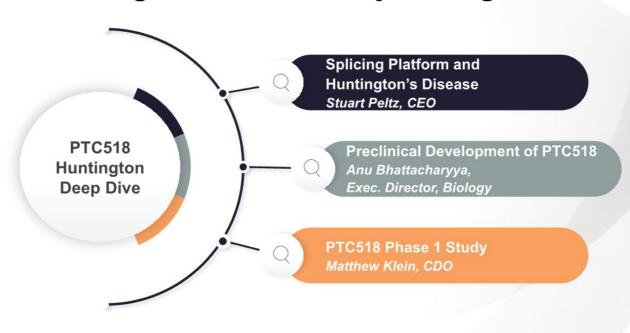
Diversified Platform Drives Strong Portfolio

SCIENTIFIC PLATFORMS and RESEARCH

					_				
	Deflazacort	LatAm Commercial	Nonsense Mutation	Splicing	Gene Therapy	Bio-e	Metabolic	Oncology	Viro
Commercial	Emflaza (deflazacort) sepi sepia sepiaka 20 rejet ord kapanike	Tegsedine (Rossos store) (Rossos store) (verlares perior sociatio) (rossos abbre per lares.	translarna ataluren	Evrysdi.	PTC-AADC				
Clinical			US Dystrophin	PTC518 HD	PIC-AADC	Vatiquinone ME Vatiquinone FA PTC857 GBA-PD	PTC923 PKU	PTC596 DIPG PTC596 LMS PTC299 AML	PTC COV
Research	Potential reg	istrational studies		SCA-3 MAP-Tau	FA Angelman IRDs Cog Disorders	Undisclosed			

AADC, aromatic L-amino acid decarbox/lase deficiency; AML; acute myeloid leukemia; COVID-19, coronavirus disease 2019; DIPG, diffuse intrinsic pontine glioma; FA, Friedreich's ataxia; GBA, glucocerebrosidase; HD, Huntington's disease; IRD, inherited retinal dystrophy LMS, leiomyosarcoma; ME, Mitochondrial Epilepsy; PD, Parkinson's disease; FKU, phenylketonuria; SCA-3, spinocerebellar ataxia type 3.

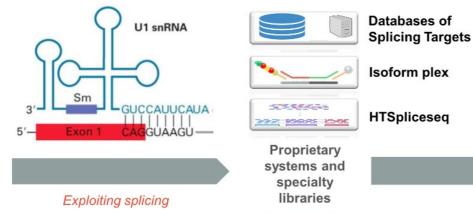
PTC518 Huntington's Disease Deep Dive Agenda

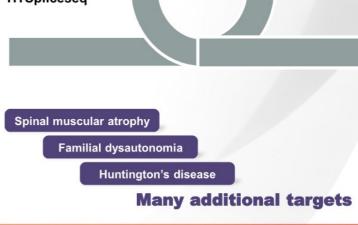


PTC is the Leader in Splicing With 20 Years of Expertise and Proven Track Record

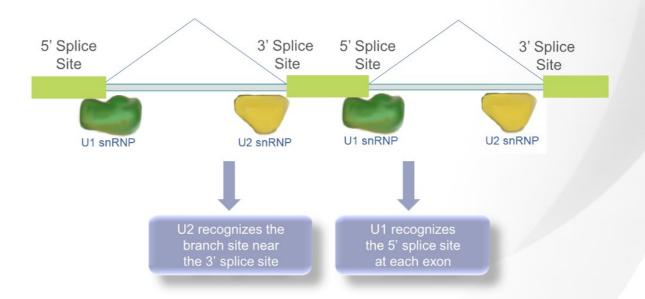
Small Molecule

Library

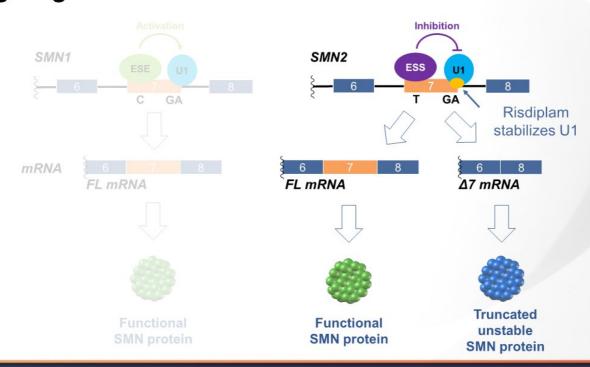




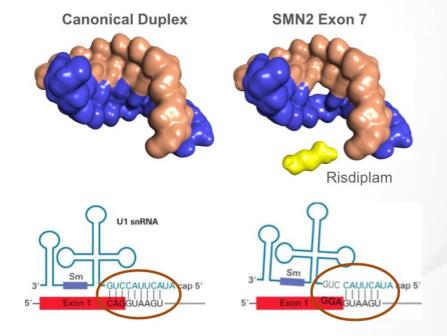
Recognition of Pre-mRNA is Mediated by U-snRNP Complexes U1 and U2



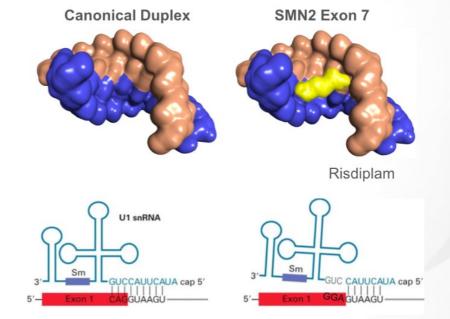
Targeting Alternative Splicing of SMN2 in SMA by Targeting the U1 Site



The SMN2 5'-Splice Site Presents a Unique Structural Interface for Small Molecule



Risdiplam SMN2 Improves the Ability of the 5'-Splice Site to Promote Splicing



Risdiplam Increases SMN Protein in Multiple Tissues to Near or Above Heterozygous Levels

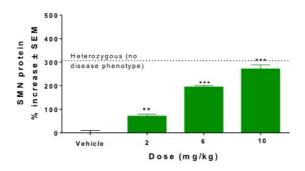


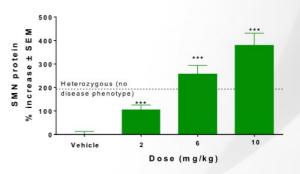
Oral dosing for 10 days in mild SMA mouse model



Brain

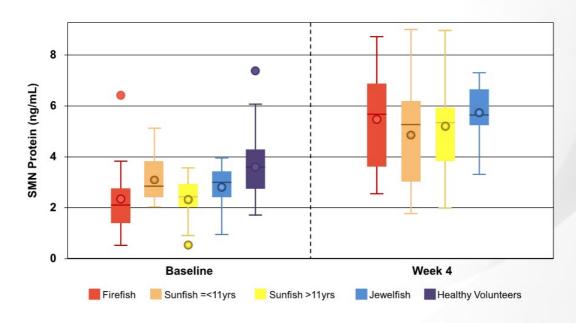
Peripheral Blood Mononuclear Cells





- SMN protein levels in peripheral blood cells correlate to those in brain
- Similar increases in SMN observed in spinal cord, muscle, heart, liver, skin

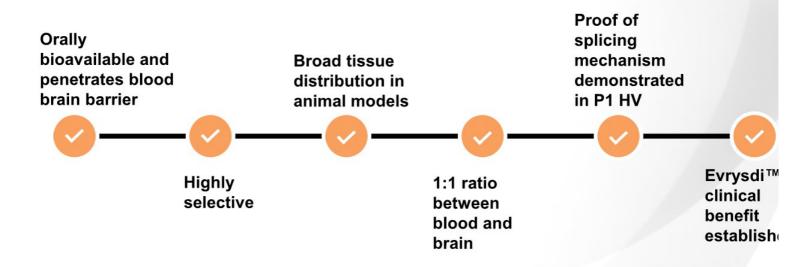
Risdiplam Increases SMN Protein Levels in All SMA Types to the Level in Adult Healthy Subjects



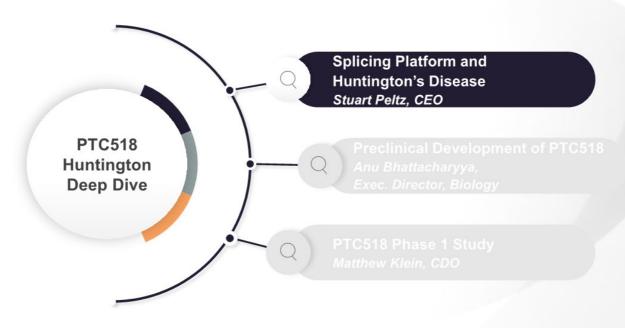
SMA, spinal muscular atrophy, SMN, spinal motor neuron.

Kietzi H, et al. 23rd international Annual Congress of World Muscle Society, October 2-6, 2018; Mendoza, Argentina.

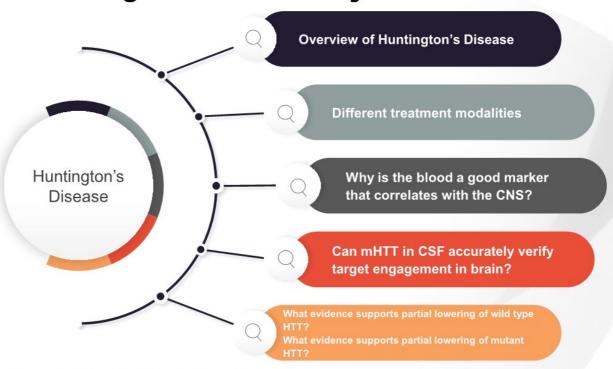
Evrysdi™ Roadmap to Success



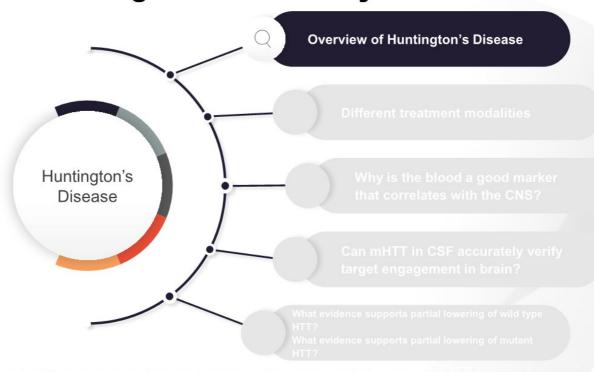
PTC518 Huntington's Disease Deep Dive Agenda



PTC518 Huntington's Disease Key Focus Areas



PTC518 Huntington's Disease Key Focus Areas



Huntington's Disease is a Debilitating Neurodegenerative Disorder with No Available Disease Modifying Treatment





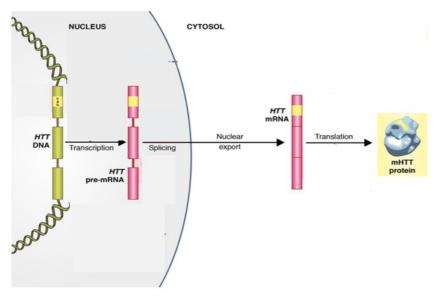
Huntington's Disease

- Caused by a monogenic defect; autosomal dominant inheritance
- · Expansion of CAG trinucleotide repeat in the huntingtin (HTT) ge
- · Leads to movement, psychiatric and cognitive disorders

Current Treatments

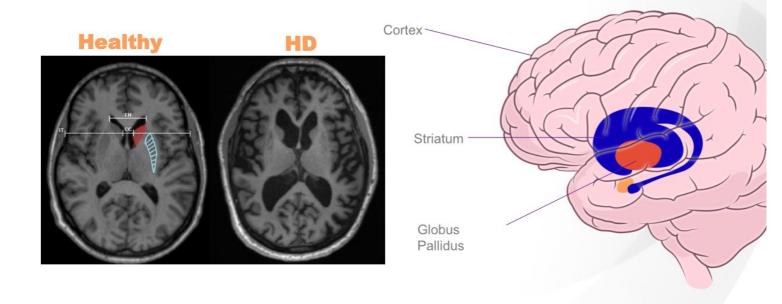
No approved disease modifying therapies

Molecular Basis of Huntington's Disease is Well Understood



Repeat Count				
<28	Normal	Unaffec		
28–35	Intermediate	Unaffec		
36–39	Reduced Penetrance	+/- Affec		
40-above	Full Penetrance	Affecte		

Progressive Neuronal Degeneration Occurs Throughout the Brain



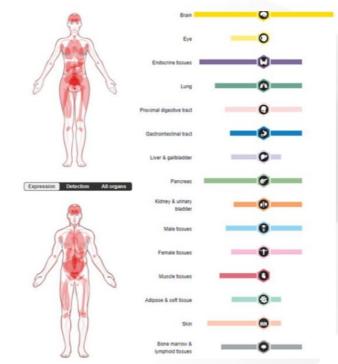
Goh et al. Aus Psychiatry. 2018

HTT is Ubiquitously Expressed and Involved in Many

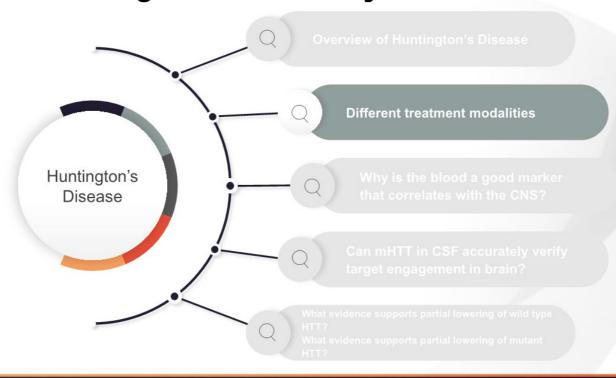
Cellular Processes

 Predominantly an intracellular protein

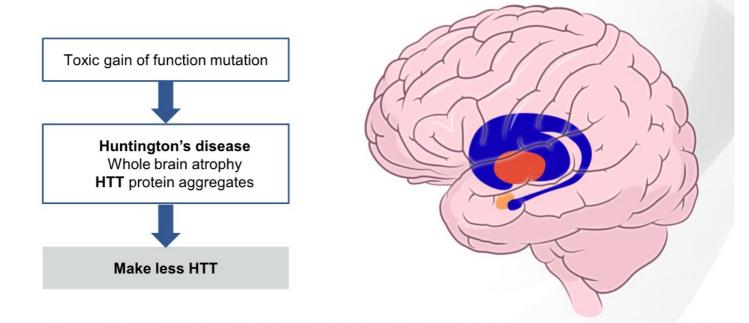
- Required during embryonic development
- Ubiquitously expressed throughout development and in all adult tissues



PTC518 Huntington's Disease Key Focus Areas

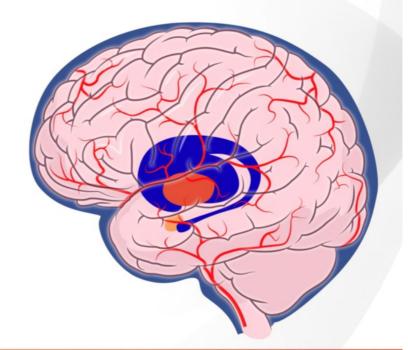


Lowering mHTT Expression to Target Root Cause of Pathogenesis



Oral Treatment has Uniform Lowering Across the Key Regions of the Brain

Property	Small molecules	
Delivery	Oral	
CNS lowering	Equal across the key areas of the brain	
Peripheral lowering	Yes	
Reversible	Yes	



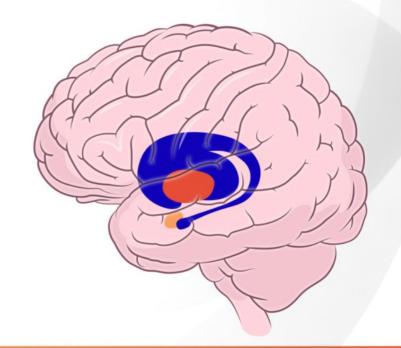
Antisense Oligonucleotide Treatment has More Lowering in the Cortex Compared to the Striatum

Property	ASOs	
Delivery	Intrathecal	
CNS lowering	Less reduction in the striatum compared to cortex	
Peripheral lowering	No	
Reversible	Yes	

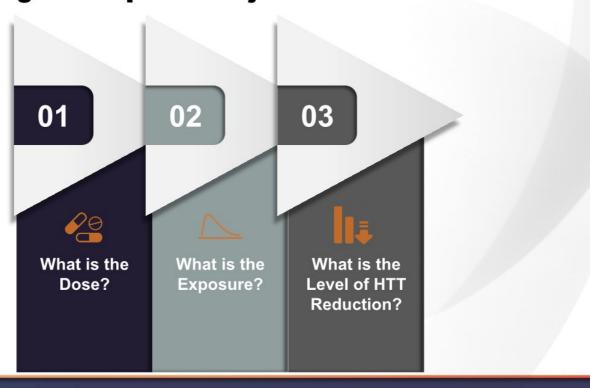


Gene Therapy Treatment has More Lowering in the Striatum Compared to the Cortex

Property	RNAi	
Delivery	Striatum/Thalamus	
CNS lowering	Less reduction in the cortex compared to striatum	
Peripheral lowering	No	
Reversible	No	

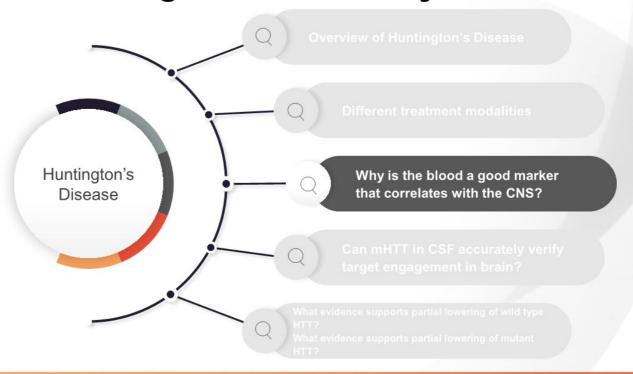


PTC518 Drug Development Objectives

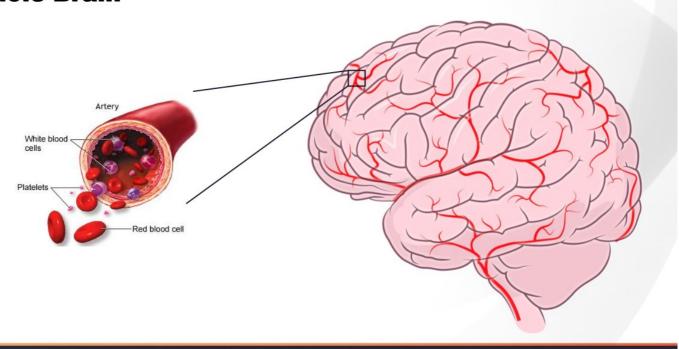


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PTC518 Huntington's Disease Key Focus Areas

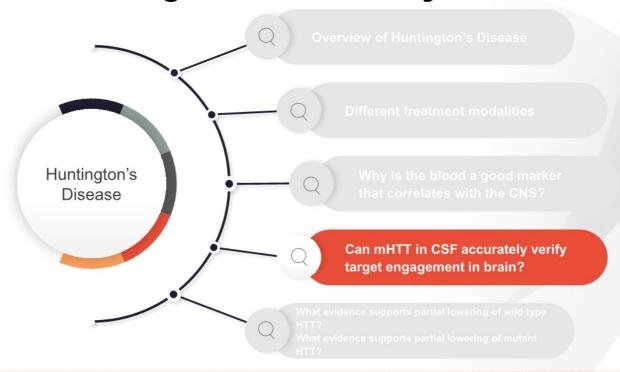


Distribution Through the Blood Effectively Targets the Whole Brain



Purves D, Augustine GJ, et al., editors. Sunderland (MA): Sinauer Associates; 2001

PTC518 Huntington's Disease Key Focus Areas



The Cerebrospinal Fluid Cushions the Brain

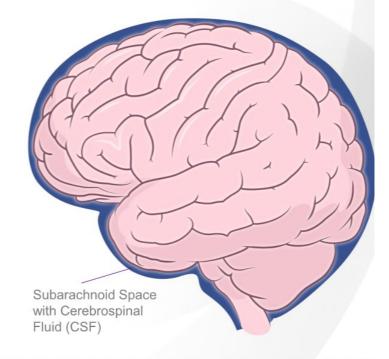
In healthy people, the cerebrospinal fluid (CSF):

Does

- Cushion the brain
- Provide immune surveillance
- · Remove metabolic waste

Does not

- Interact with most neurons directly
- Contain very much protein (35 mg/dL, compared to 7000 mg/dL in serum)



Limitations of CSF HTT Measurement as a Pharmacodynamic Marker for HTT lowering

What We Know Unknowns

Brain mHTT levels >100X CSF mHTT levels

Very low levels of CSF mHTT – an ultra sensitive assay (low fM) required for measurement

Assay inconsistency and variability

Lack of strong correlation between brain and CSF lowering with different modalities













The origin of CSF mHTT

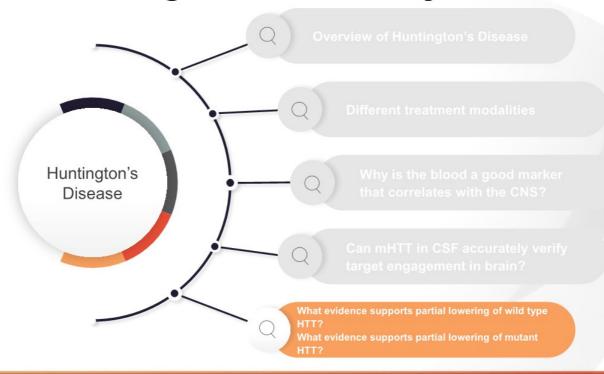


Specific contributions of brain regions to CSF mHTT levels



Not enough data to understand a meaningful treatment related change in levels over assay variability

PTC518 Huntington's Disease Key Focus Areas



Multiple Models Demonstrate Partial Reduction of Wild Type HTT Is Well Tolerated



Species	Magnitude of wild type HTT change	Phenotype
Human	Loss of one normal HTT allele ~50%	No detectable abnormal phenoty
Adult Nonhuman Primates	~50%	No alterations in motor function; National histopathologic finding
Adult Rodents	~50%	No alterations in motor performan or activity

Leavitt et. al. JAMA Neurology 2020 doi:10.1001/jamaneurol.2020.029

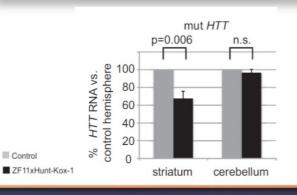
HTT Reduction Correlates with Clinical Benefit

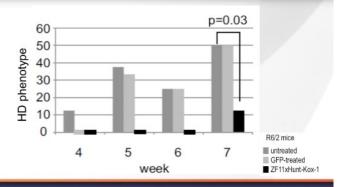


Human data: ~50% reduction in *HTT* transcriptional activity results in mean delay of age of onset by 9.3 years



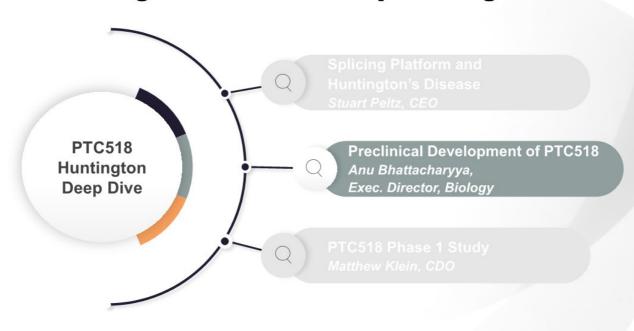
Mouse data: 30-40% reduction in mHTT expression translates to beneficial effects



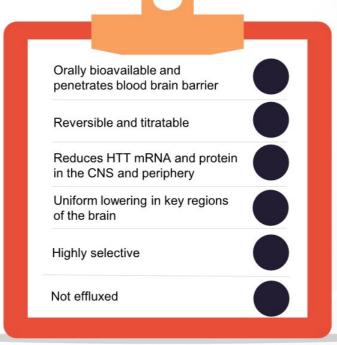


Becanovic et. al. Nat Neurosci. 2015. doi:10.1038/nn.4014 Garriga-Canut et. al. PNAS 2012 doi.org/10.1073/pnas.1206506109

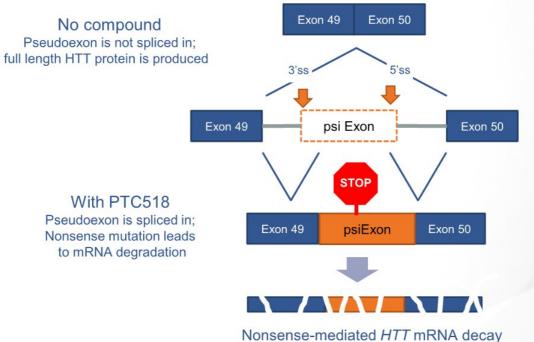
PTC518 Huntington's Disease Deep Dive Agenda



What are the Characteristics of a Promising HD Therapeutic?



Identification of a Novel Splicing Mechanism that Leads to Degradation of Mutant *HTT* mRNA



Key Preclinical Proof Points



7 CONFIDENTIAL NOT FOR PROMOTIONAL USE

Animal Models Were Selected to Best Show PK and PD

Model	Purpose	Pros	Cons
BACHD mouse	PK-PD-distribution/ HTT lowering biomarker	Human Genomic Locus Full-length HTT/PsiExon target	Subtle & late onset phenoty Increased body weight
WT Mouse	PK-distribution	Availability; commonly used; quick PK	NO PsiExon target
WTNHP	PK-distribution	Large brain; study efflux (CSF PK)	NO PsiExon target



PTC518 is Orally Bioavailable and Crosses the Blood Bra Barrier



After swallowing, it makes its way to the stomach

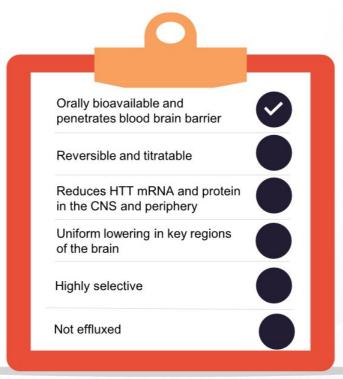
Broken down in the stomach, small intestine, and liver

Circulates through the bloodstream

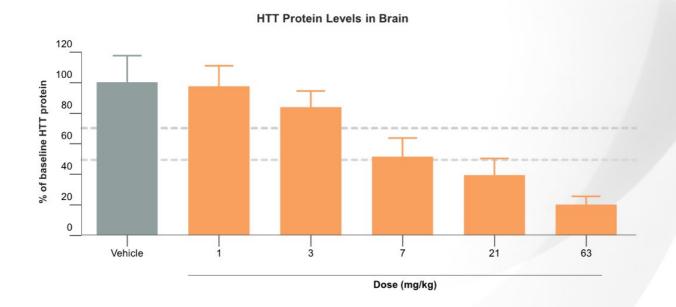
Distributed through the body

Crosses blood brain barrie to access neurons

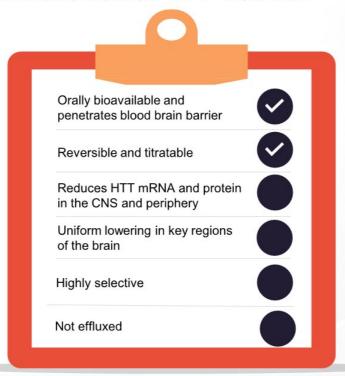
What are the Characteristics of PTC518?



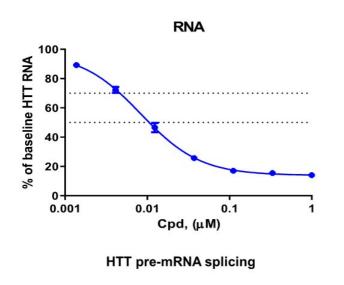
Dose Dependent HTT Lowering in the Brain of BACHD Mice

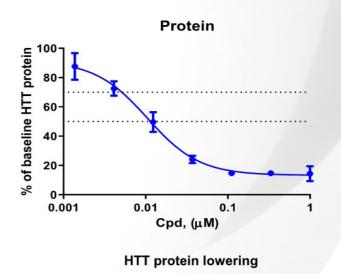


What are the Characteristics of PTC518?

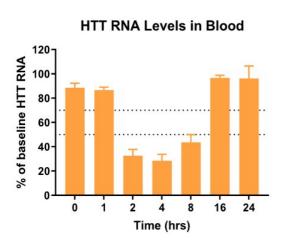


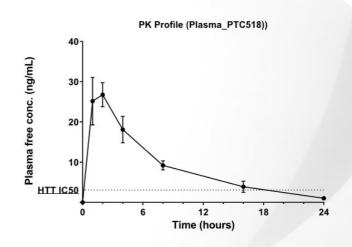
PTC518 is Highly Potent in Promoting Splicing of *HTT* Promoting Splicing Splicing of *HTT* Promoting Splicing Splic





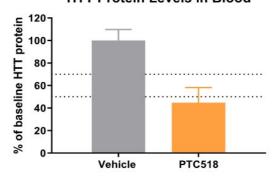
PTC518 Promotes Splicing of *HTT* Pre-mRNA in BACHD Mouse Whole Blood





PTC518 Showed a Strong Correlation Between *HTT* mRN Splicing and Protein Lowering in Blood of BACHD Mice

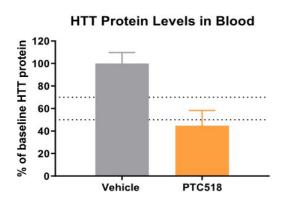
HTT Protein Levels in Blood

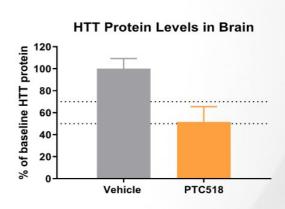


- > HTT protein lowering in BACHD white blood cells
 - Time 21 days; multiple doses; PD evaluated 2h post last dose

4.5 Data on file

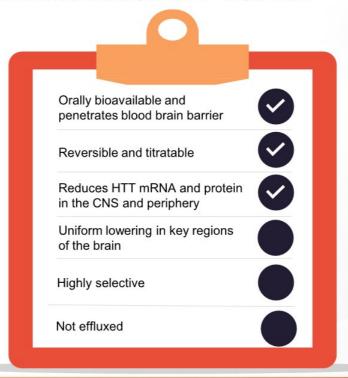
PTC518 Uniformly Lowers HTT Protein Levels in BACHD Mouse Brain and White Blood Cells





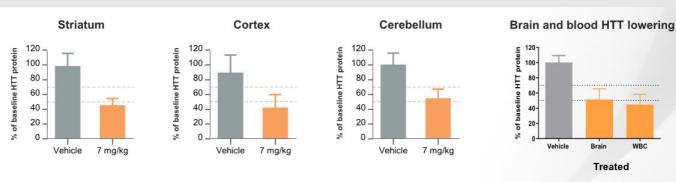
4.6 Data on file

What are the Characteristics of PTC518?



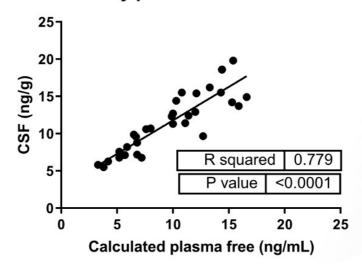
HD Splicing Small Molecules Demonstrate Robust HTT Reduction in BACHD Mouse Brain

Measurements demonstrate uniform HTT lowering across brain regions with ~1:1 brain and blood lowering effect



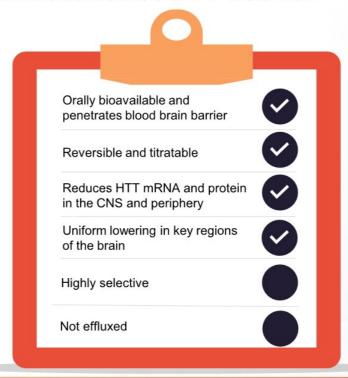
PTC518 Crosses the Blood Brain Barrier in Non-Human Primates

Monkey plasma CSF correlation

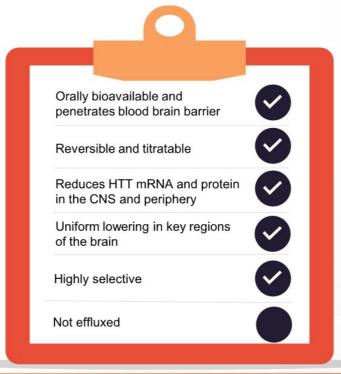


49 Data on file

What are the Characteristics of PTC518?



What are the Characteristics of PTC518?



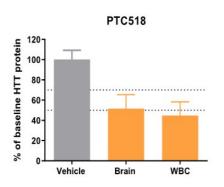
Why is it Important to Reduce Efflux?

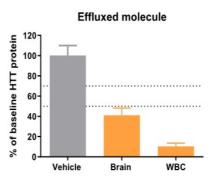
- Reducing efflux has several advantages:
 - Balancing the extent of peripheral vs brain lowering is critical
 - Increases the therapeutic window versus non target-related splicing in the periphery
 - Stronger correlation between blood (peripheral) and brain lowering

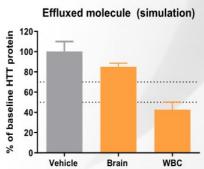
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PTC518 is Not Effluxed Resulting In ~1:1 Brain and Blood Lowering Effect In BACHD Mice

PTC518	Effluxed Molecule	
Peripheral ≈ Brain	Peripheral >> Brain	



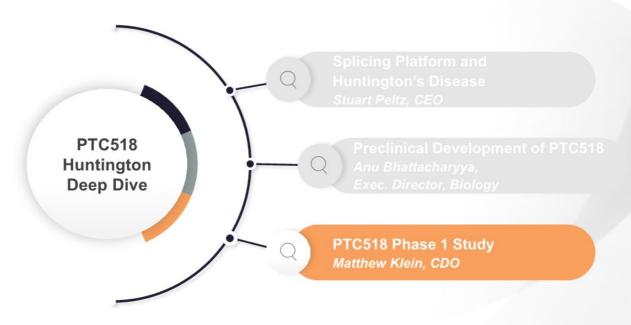




What are the Characteristics of PTC518?



PTC518 Huntington's Disease Deep Dive Agenda



The Phase 1 Trial is a 4-Part Study

Single ascending dose

- Five cohorts of 8 healthy volunteers (6 active and 2 placebo)
 Evaluate safety & tolerability; HTT mRNA splicing

Phase 1 trial in healthy volunteers is ongoing

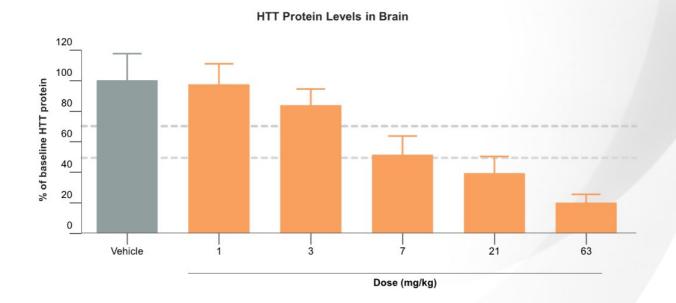
Multiple ascending dose

- Up to 5 cohorts of 8 healthy volunteers (6 active and 2 placebo)
- Evaluate safety & tolerability; HTT mRNA splicing & protein lowering

Food effect

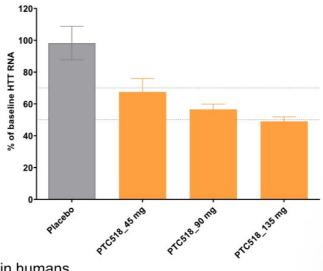
- · Crossover design
- Evaluate the effects of food on PTC518 pharmacokinetics

Phase 1 Objective: Establish Dose Dependent HTT Lowering Similar to the BACHD Mouse



57 Data on file

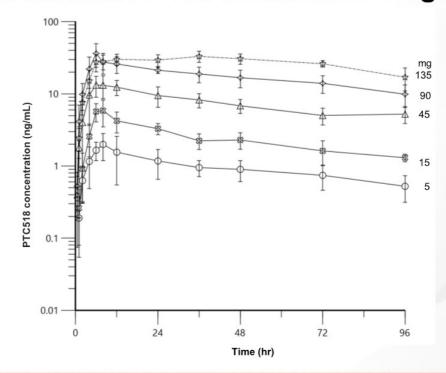
SAD Study: Proof of Mechanism of PTC518 Demonstrated By Dose-Dependent *HTT* Splicing



- > Whole blood HTT splicing in humans
 - Doses evaluated = 45 mg, 90 mg, and 135 mg
 - > Time one day; single dose; splicing evaluated 24h post dose

Data on file PTC518-CNS-001-HD

SAD PK Demonstrates Dose Predictable Drug Exposure



Data on file PTC518-CNS-001-H

Phase 1 SAD Interim Results Summary

Well-tolerated with no safety-related findings

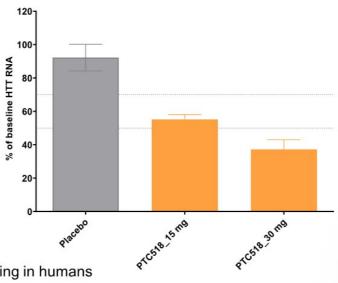
Predictable pharmacology

Dose-dependent splicing of HTT mRNA

Target splicing reduction achieved with single dose

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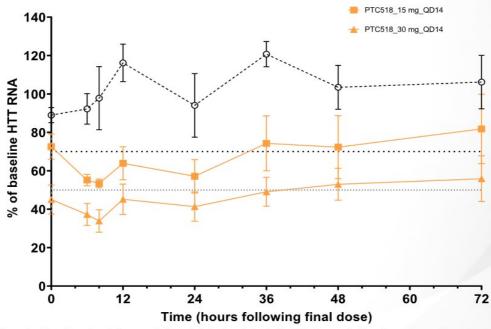
MAD Study: Proof of Mechanism of PTC518 Confirmed By Dose-Dependent *HTT* Splicing



- > Whole blood HTT splicing in humans
 - Doses evaluated = 15 mg and 30 mg
 - > Time Day 14; multiple doses; splicing evaluated 6h post dose on day 14

Data on file PTC518-CNS-001-HD

Durability of Response: Splicing Activity Persists 72 hrs Post Cessation



HTT splicing monitored after the final dose at day 14 (calculated % HTT remaining from baseline (pre-dose_Day0))

62 Data on file PTC518-CNS-001-HI

Phase 1 MAD Interim Results Summary

Two cohorts completed; two to three additional planned

Well-tolerated with no safety-related findings

Dose dependent splicing of HTT mRNA

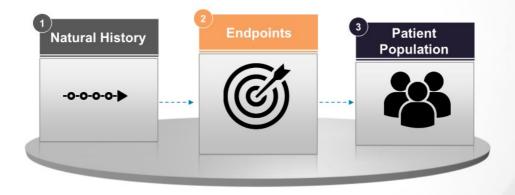
Long-half life with maintenance of splicing up to 72 hours following last dose

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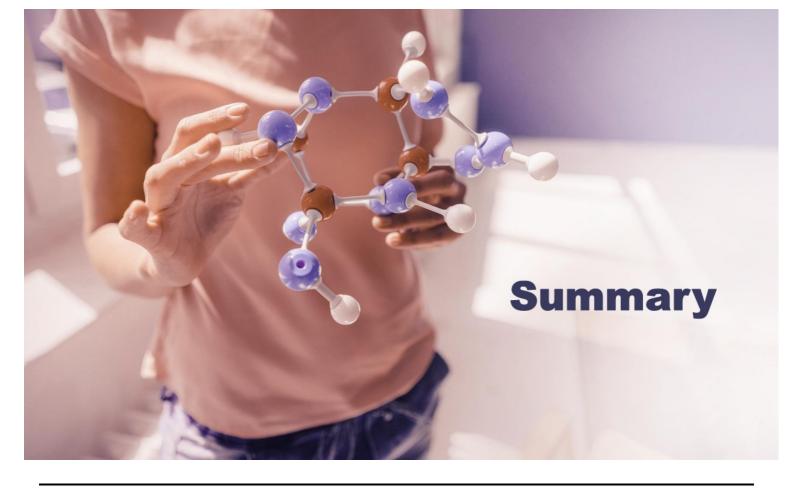
Phase 1 Trial Next Steps

- Complete Additional MAD Cohorts
- 2 Complete CSF Cohort
- 3 Complete Food Effect Cohort
- 4 Finalize Clinical Development Plan

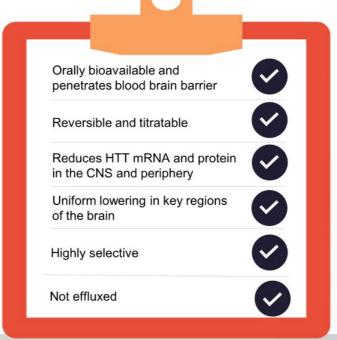
Defining Clinical Next Steps



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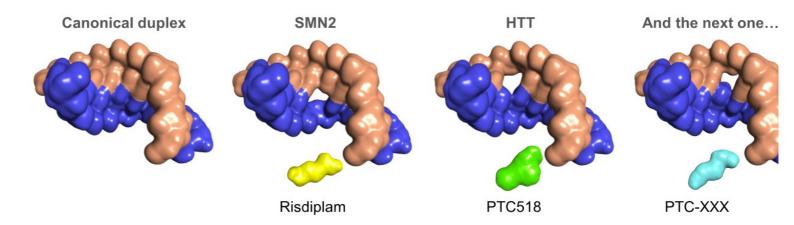


Preclinical Studies Show PTC518 Has all the Characteristics Of a Promising HD Therapeutic



PTC518 Drug Development Objectives 04 03 01 02 What is the What is the What is the How to Dose? Exposure? **Level of HTT Demonstrate** Reduction? Clinical Benefit?

The Splicing Platform Has Proven to be a Robust Engine to Identify Development Candidates



Molecules are designed to match a unique **pre-mRNA/U1** interface and serve as molecular glue to help initiate splicing events

