

Unlocking the science of longevity to develop transformative therapies

Corporate Presentation • September 2023

Forward-looking statements

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Overview

We believe that $TNF\alpha$ -mediated inflammation

- Initiates and perpetuates a forward-feeding pro-inflammatory cycle
- Leads to insulin resistance
- Accelerates the "DNA methylation" and the aging process

Our lead asset NE3107 modulates the production of TNFα. In clinical trials, many patients treated with NE3107 experienced:

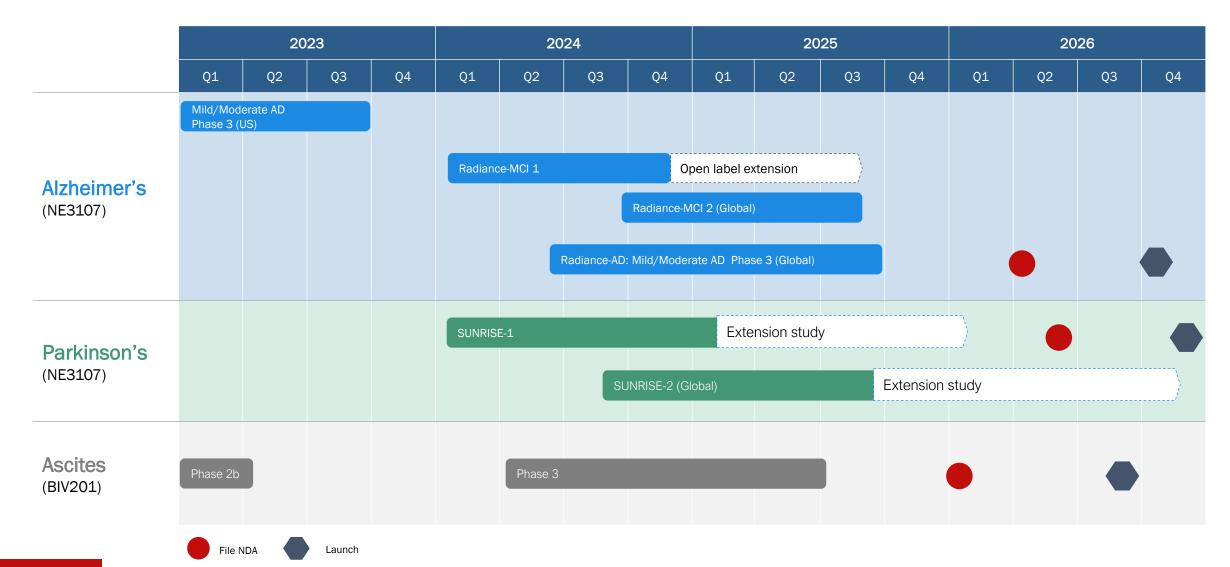
- Reduced inflammation and the associated insulin resistance
- Improved cognition, lowered p-tau levels, and improved brain imaging scans in Alzheimer's Disease (AD)
- Improved motor control and "morning on" symptoms in Parkinson's disease (PD)
- Lowered DNA methylation levels

NE3107 may change the expression of specific genes in a manner that is significantly correlated to observed cognitive and biomarker changes

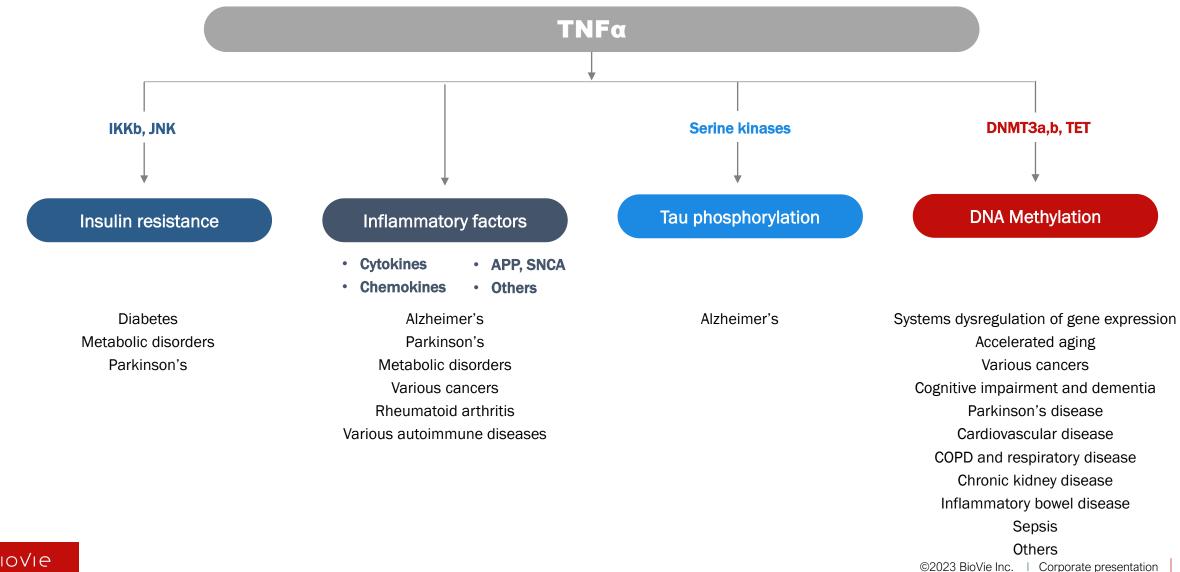
- Provides epigenetic basis to explain improvements observed in AD and PD trials
- Gives optimism for what we may see when Phase 3 AD trial reads out in Q4 2023

BIV201 reduces fluid build up and has the potential to become the first therapeutic for ascites, a condition with 50% mortality rate within 12 months. Discussions with FDA underway to finalize Phase 3 trial design

Expected catalysts and anticipated timelines

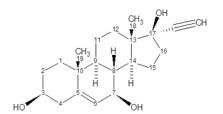


Far-reaching impact of TNFα-mediated chronic low-grade inflammation



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NE3107's mechanism of action

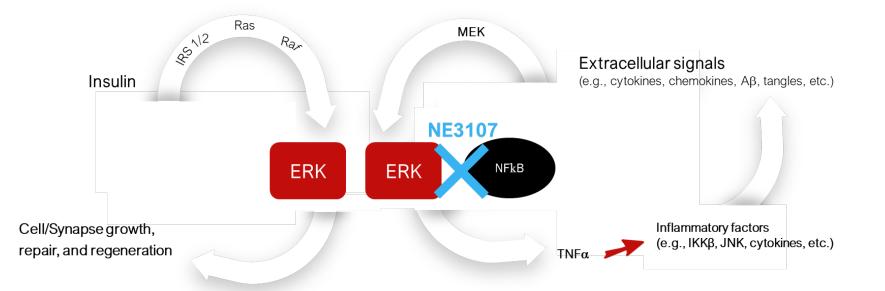


First-in-class molecule with desirable characteristics

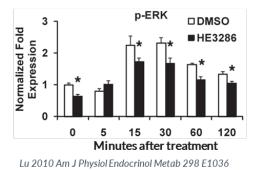
Small molecule; orally bioavailable

Crosses blood-brain barrier, thus CNS and peripheral applications

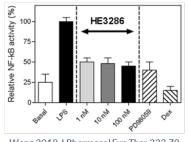
No safety issues identified to date in pre-clinical and clinical trials (up to Phase 2)



NE3107 Reduces ERK Activation



NE3107 Reduces NFkB Activity

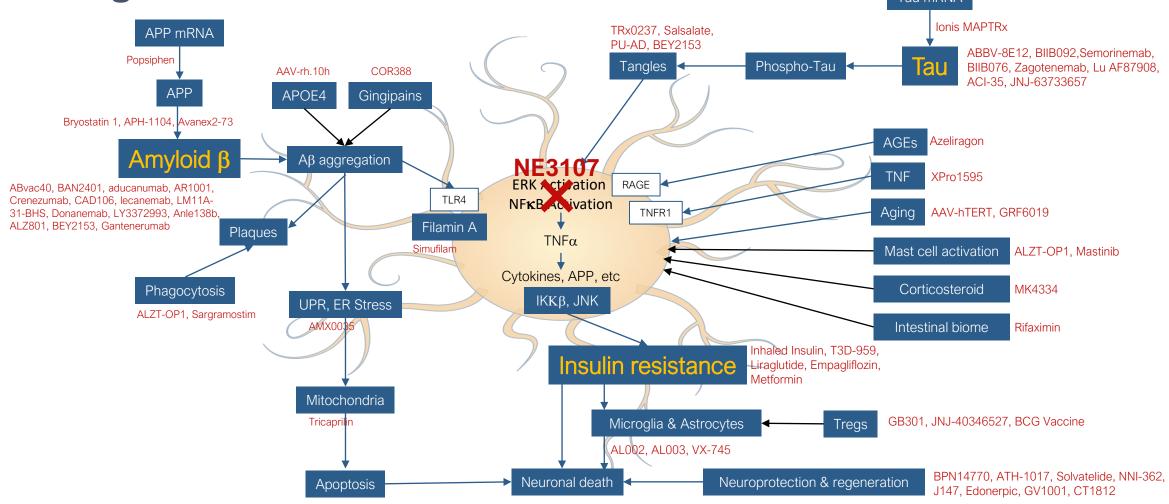


Wang 2010 J Pharmacol Exp Ther 333 70

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NE3107 in Alzheimer's Disease

NE3107 modulates inflammation at the central hub, thereby potentially reducing downstream cascade

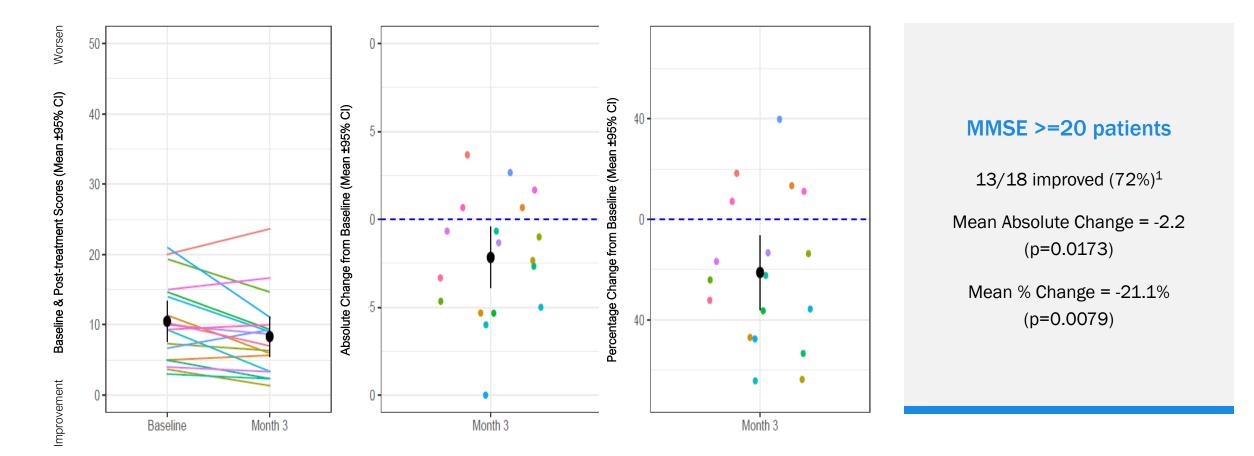


Investigator-Sponsored Trial in MCI and Mild Alzheimer's Disease, NCT05227820

An open-label, Investigator-Initiated exploratory biomarker study in patients who have MCI to Mild AD

- 55-89 years old, males and females experiencing cognitive decline with Clinical Dementia Rating (CDR) score of 0.5 to 1, suggesting mild cognitive impairment to mild dementia
- Study seeks to measure changes in cognition through verbal and visual test procedures and changes in biomarkers of Alzheimer's disease and inflammatory and metabolic parameters that can be measured in the CNS with advanced neuroimaging techniques in patients before and after treatment with 20 mg of NE3107 twice daily for 3 months
- Use advanced functional magnetic resonance imaging (fMRI) to assess change from baseline to completion
 - Change in glutathione levels will be analyzed as measured by Magnetic Resonance Spectroscopy (MRS)
 - Change in Diffusion Tensor Imaging Neurite Orientation Dispersion Density Imaging (DTI-NODDI) to assess stabilization and or improvement in dendritic density
 - Change in Arterial Spin Labeling (ASL); change in functional connectivity of the nucleus basalis of meynert (NBM) with both hippocampi as well as between both hippocampi; and change in Neurovascular Coupling (NVR) as measured on BOLD imaging
- Additional exploratory endpoints
 - Clinical Dementia Rating Change as calculated from the Quick Dementia Rating Scale (QDRS) Change
 - Montreal Cognitive Assessment (MoCA) Change
 - Alzheimer's Disease Assessment Scale Cognitive Subscale (ADAS-Cog11) Change
 - Mini-Mental State Examination (MMSE) Change
 - Glucose Serology/Metabolic Level Change
 - DNA methylation Change

Significant improvements in ADAS-Cog12 assessment of cognition among MCI/Mild AD patients



Cognitive improvements consistent across multiple assessment scales

Assessment	All Patients (N=23)	MCI/Mild AD (n=18)
ADAS-Cog12	-0.913	-2.167*
MMSE	-0.74	-0.39
MoCA	-0.04	0.56
QDRS	-0.54	-1.56*
CDR	0.04	-0.11*
ADCOMS	0.0049	-0.07*

ADAS-Cog12

= Alzheimer's Disease Assessment Scale-Cognitive

MMSE = Mini-Mental State Examination

MoCA

= Montreal Cognitive Assessment

QDRS = Quick Dementia Rating System

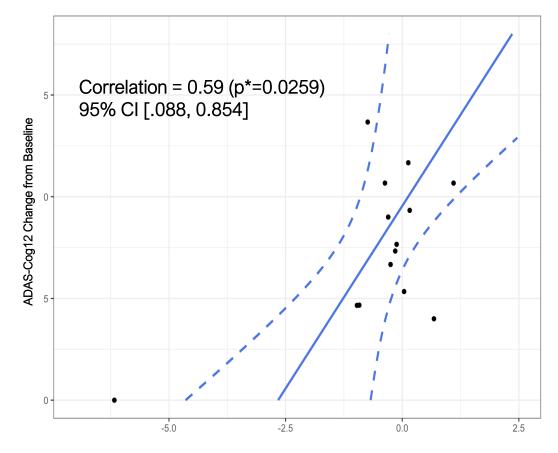
CDR = Clinical Dementia Rating scale

ADCOMS

= Alzheimer's Disease Composite Score

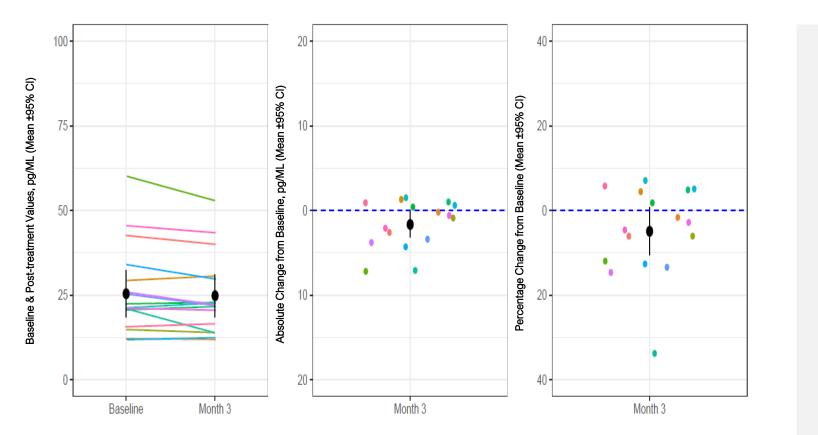
Improvements in TNFa significantly correlated to improvements in ADAS-Cog12

MMSE >=20 patients



Absolute TNFa Change from Baseline, pg/ML





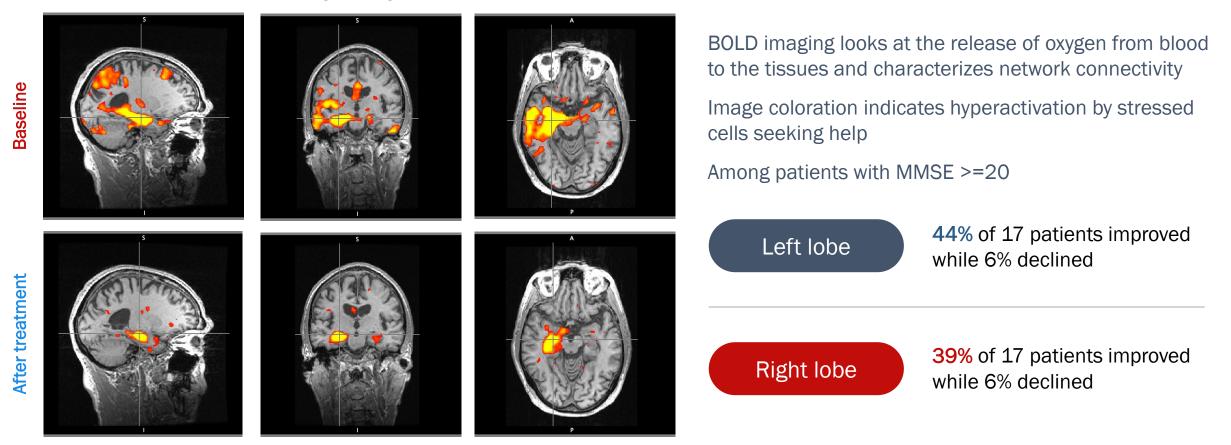
NE3107 decreased CSF p-tau by 5% over 3 months among MCI/Mild AD patients

Due to NE3107's mechanism, reduction in p-tau levels are expected to increase and accumulate over time MMSE >=20 patients

10/16 improved (63%)¹ Mean Absolute Change = -1.66 (p=0.0343) Mean % Change = -4.93% (p=0.0852)

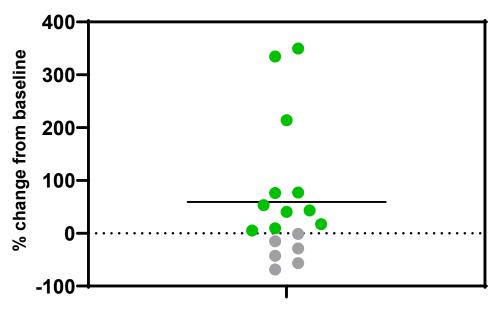
Blood Oxygen Level-Dependent (BOLD) imaging shows NE3107 can reduce hyperactivation of the hippocampus¹ towards normal

Patient NO8 – Global Rating of Change +3.5 (Partner Reported)

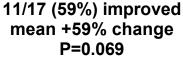


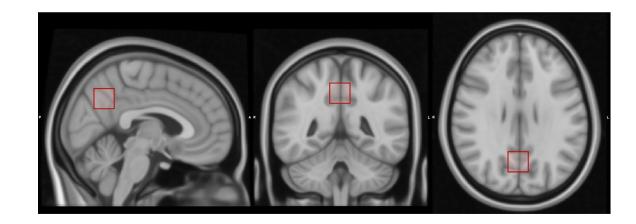
NE3107 May Be Associated With Reduced Oxidative Stress in the Brain

% change from baseline in brain glutathione assessed by MRS of precuneus



Precuneous Glutathione MCI/Mild AD





For all patients, there were significant correlations between glutathione and TNF- α (r=-0.44) and glutathione and ADAS-Cog12 (r=-0.45)

Current understanding provides optimism for the Phase 3 trial in Mild to Moderate Alzheimer's expected to read out in Q4 2023

A Phase 3, Double-blind, Randomized, Placebo-controlled, Parallel Group, Multicenter Study of NE3107 in 316 to 400 Patients who have Mild to Moderate AD

- Pivotal study for Alzheimer's disease. Two weeks each of 5 mg and 10 mg BID dose titration followed by 26 weeks of 20 mg twice daily vs. placebo, approximately 160 subjects in each arm, 80% power
- Diagnosed with AD and without evidence of a vascular contribution. Mild to moderate disease. CDR 1-2. MMSE 14-24.
- 60-85 years old, males and females
- Randomization stratified by MMSE and Homeostatic Model Assessment 2 Insulin Resistance (HOMA2)
- Co-primary endpoints
 - Mean change from Baseline to Week 30 in the twelve-question form of the Alzheimer's Disease Assessment Scale-Cognitive (ADAS-Cog 12) comparing the NE3107 group to the placebo group
 - Mean change from Baseline to Week 30 in Alzheimer's Disease Cooperative Study-Clinical Global Impression of Change (ADCS-CGIC) comparing the NE3107 group to the placebo group
- Secondary endpoints
 - ADCS-ADL (functional), ADCOMS (4 Alzheimer's Disease Assessment Scale-cognitive subscale items, 2 Mini-Mental State Examination items, and all
 6 Clinical Dementia Rating-Sum of Boxes items), NPI-12 (care-giver rating of behavioral changes), MMSE, CDR
 - Glycemic control: HOMA2, Mean Amplitude of Glycemic Excursion (MAGE) using continuous glucose monitoring, fructosamine levels, post-prandial glucose and fasting blood glucose vs time.
 - MRI total hippocampus volume change, baseline to end of treatment in a subset of approximately 50% of active and placebo subjects
 - Target engagement assessed in a small subset of active and placebo subjects using PET to quantify cortical glucose utilization

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NE3107 in Parkinson's Disease

Parkinson's Disease Clinical Development Program

NM201 Phase 2

- Satisfying FDA requirement for drug-drug interaction study with L-dopa
- Detect efficacy signal for NE3107's pro-motoric activity

40 patients with defined L-dopa"off state", 1:1 active: placebo,20 mg BID for 28 days

- Safety assessments: Standard measures of patient health, Ldopa PK and DDI
- Efficacy assessments: MDS-UPDRS* parts 1-3, Hauser ON/OFF Diary, Non-Motor Symptom Scale

NE3107-treatment patients experienced fewer motor symptoms before morning drug administration

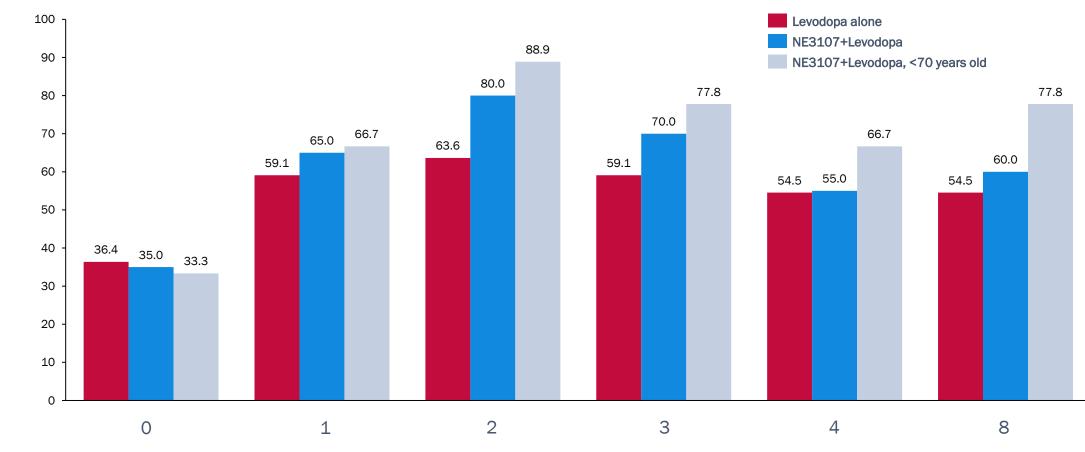
UPDRS Part 3 Score – Day 28 change from Day 1 **All Patients** Patients <70 years old -5 -10 -15 --20 -25 8 0 0 2 Hours post administration NE3107 + Levodopa Levodopa alone

Day 28 Improvement in Motor Control vs. Day 1

	NE3107 Placebo	
"On" at t=0	6	0
Total patients	20	19
P-value*	0.0)2
* Fisher's exact tes	t	

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Larger proportion of patients treated with NE3107 had >30% improvements in motor control

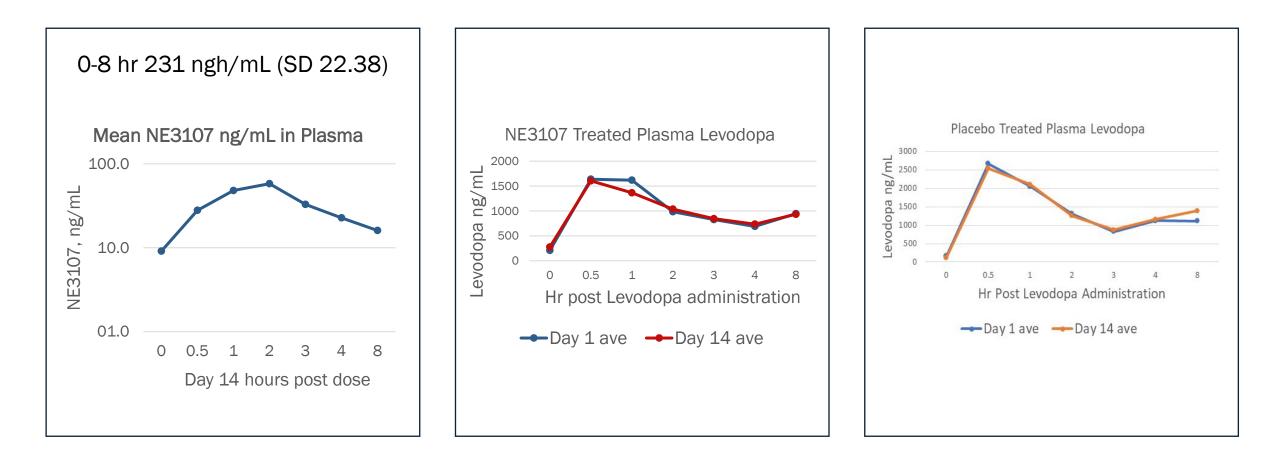


Percentage of patients experiencing >30% improvement at Day 28 vs. Day 0

Hours after administration

Percent of patients

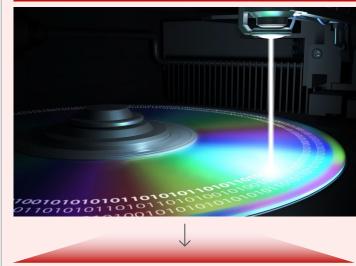
Desirable pharmacokinetics – no observed DDI



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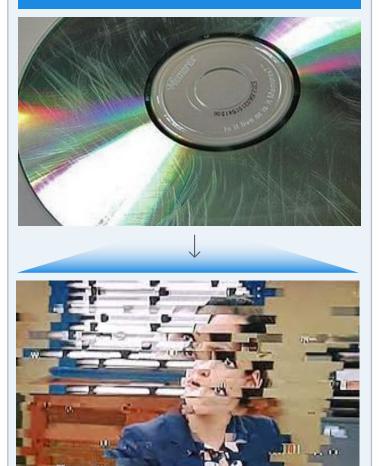
NE3107 in Longevity

Clean DVD leads to clear picture and sound





Scratches & smudges lead to skips and blurs



Impact of wear & tear on a laser's ability to decode DVDs

Quality of picture is dependent on the laser's ability to clearly decode the disk ...

The same thing happens in our body

DNA methylation

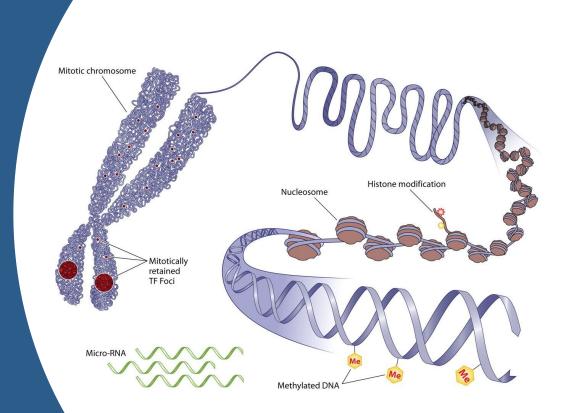
DNA methylation happens when methyl groups are added to our DNA

- DNA methyltransferases add methyl groups to DNA
- Functionally the equivalent of scratches and smudges on a DVD surface
- The methyl groups interfere with RNA polymerase's ability to decode DNA

DNA methylation may happen where a cytosine is positioned next to guanine and is separated by a phosphate group (CpG)

• 28 million CpGs in genome

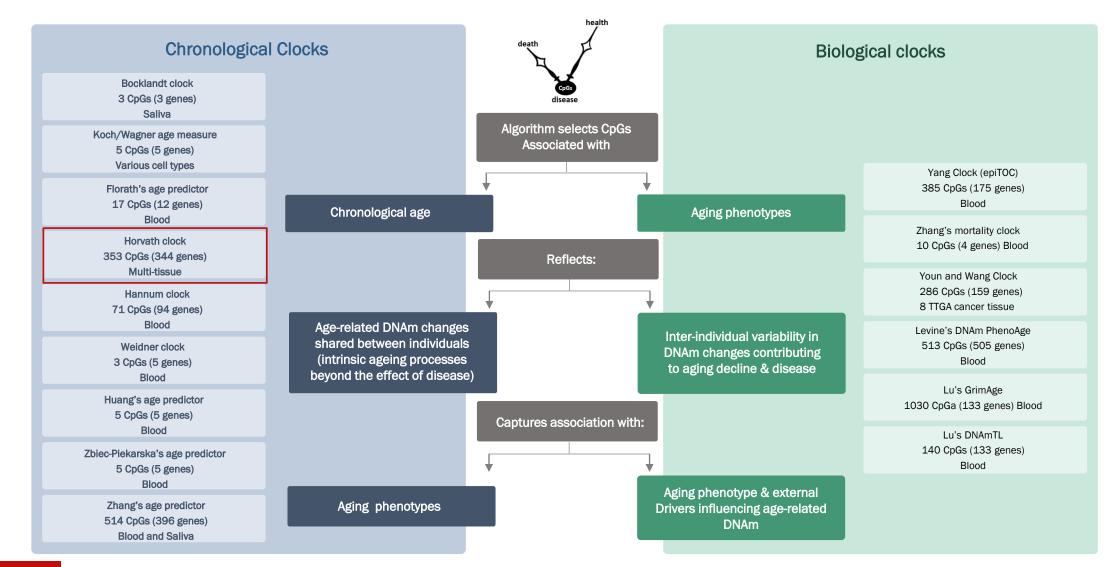
Hypermethylation of DNA is associated with many disease conditions



Observations about DNA methylation

- DNA methylation increases as we age
- DNA methylation can be affected by behavioral (diet, exercise) and environmental factors
- DNA hypermethylation is associated with a large number of disease conditions, including various forms of cancers, age-related cognitive impairment and dementia, Parkinson's disease, cardiovascular disease, COPD and respiratory disease, chronic kidney disease, inflammatory bowel disease, sepsis, and many others*
- Inflammation has been shown to be a driver of hypermethylation of DNA**
- Extent of DNA methylation can be measured by various "clocks"

DNA methylation "clocks" measure extent of aging and biological function

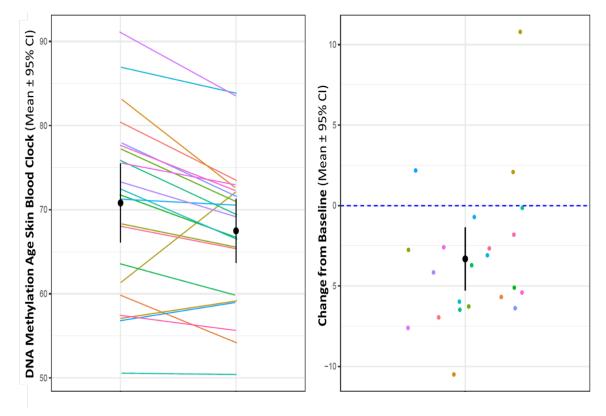


NE3107 significantly reduced DNA methylation as measured by the SkinBloodAge Clock

Dr. Steve Horvath* developed an extremely precise Biological age DNA methylation clock, the DNAmethylation SkinBloodAge.

The biological clock age was in close agreement with the chronological age (72.3 vs 71.6; +0.98%) at baseline

After 3 months treatment with NE3107 there was a decrease in DNA methylation commensurate with 3.3 years reduction on the Skin Blood Clock (68.1 vs 71.6; -4.9%)

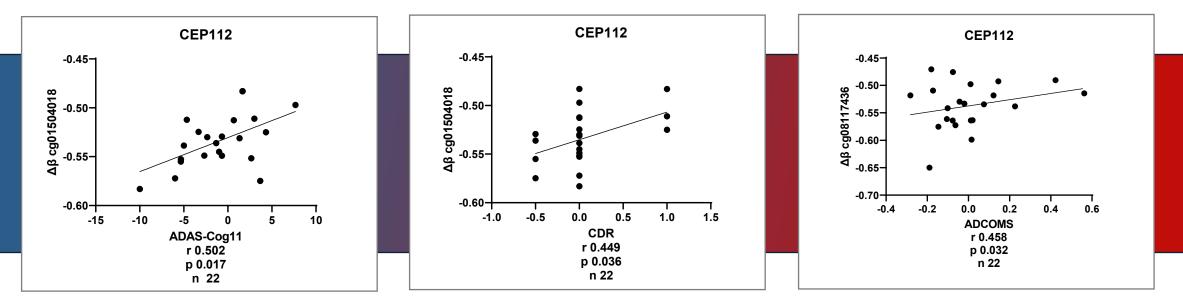


19/22 decreased (86%)

Mean Absolute Change = -3.3 years (p=0.0021)

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Lower DNA methylation of the CEP112 gene significantly correlated with measures of cognition



- CEP112 encodes a coiled-coil domain containing protein that belongs to the cell division control protein 42 effector protein family. In neurons, it localizes to the cytoplasm of dendrites and is also enriched in the nucleus where it interacts with the RNA polymerase III transcriptional repressor Maf1 to regulate gamma-aminobutyric acid A receptor surface expression.
- CEP112 was identified as a hub gene expressed in control compared to Alzheimer's disease in modeling of cognitive reserve.* It is thought to be important in the maintenance of cognitive reserve, and its is decreased in AD.
- Decreasing DNA methylation of CEP112 may result in increased expression, and this would be consistent with the correlations of CEP112 DNAm and ADAS-Cog11, CDR and ADCOMS scores.

>3,000 correlations between reductions in DNAm of various CpGs and cognitive, biomarker and neuroimaging endpoints

Frequency of significant Spearman correlations between changes in DNAm (individual CpG residues) and clinical measures after 14 weeks of treatment

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Clinical measure	Insulin signaling ^a	Anti-oxidant ^b	Anti- inflammatory ^c	Anti-apoptotic ^d	Anti-amyloid ^e	Neuro- stimulatory ^f
MRI neuroimagi	ng					
Hippocampus	16	24	9	4	3	1
Grey matter ^g	91	78	24	24	22	26
Frontal lobe	238	152	44	49	36	69
Temporal lobe	181	112	26	28	13	49
Parietal lobe	91	154	40	47	14	74
Occipital lobe	42	28	9	2	2	5
Glutathione	67	43	27	14	8	20
Cognitive assessments						
CDR	15	23	13	5	5	10
MMSE	31	29	18	7	3	5
ADAS-Cog11	26	16	12	4	9	8
ADCOMS	13	17	4	3	5	8
MoCA	23	8	8	2	2	6
QDRS	10	19	6	3	1	8
PDQ-9	71	49	22	6	17	18
Biomarkers						
pTau	22	26	6	6	3	12
pTau/Aβ42	46	43	19	6	5	15
Αβ42	11	24	9	7	1	15
Tau	34	38	10	2	2	15
TNF-α	23	17	14	7	8	8

aINS, INSR, IGF, IGFR, IRS, AKT, and PI3K; bGST, GPX, GSS, GSR, AATF, ARSB, ATM, NEDD4, ZMAT, TXN, TXNRD, and PRDX; cIL6, IL4, IL10, IL13, NFKBIB, SIRT,

and LRRFIP1; dIAP and BIRC; eSORL1, PIGK, UBA1, and ZNF331; f

NEUROD1, BDNF, NGF, NTRK, NTF3, and CEP112; Subcortical grey matter

Summary of findings

01

We believe the data suggest that observed clinical findings and measured changes in DNA methylation and biomarkers are not accidental

02

Data show that patients treated with NE3107 experienced reduced DNA methylation

03

Data also show that NE3107 may have changed the expression of specific genes in a manner that is significantly correlated to observed cognitive and biomarker changes

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BIV201 in Ascites

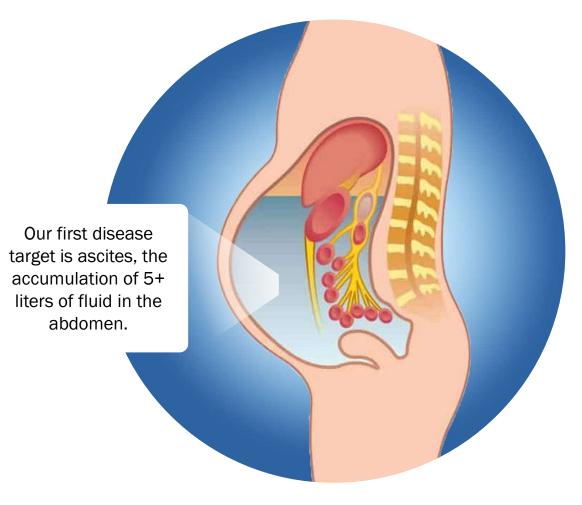
BIV201 Disease Target: Refractory Ascites

Refractory ascites patients typically undergo paracentesis to remove ascites fluid every week to 10 days

Paracentesis:

- Withdrawal of 5–10L of ascites fluid (on average) from abdomen using a large bore needle
- Provides a few days of symptomatic relief
- The kidneys are "burning out" by retaining massive quantities of salt and water
- Patients suffer frequent life-threatening complications
- No remaining options except for TIPS¹ surgery or liver transplant
- Estimated \$670 million addressable US market with 20,000² targeted patients

No drugs ever approved by FDA to treat ascites



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1. TIPS = transjugular intrahepatic portosystemic shunt to channel blood flow around the liver

2. Derived from Scaglione J Clin Gastroenterol.49(8):690-6; D'Amico Journal of Hepatology, Volume 44, pp. 217-231; D'Amico Aliment Pharmacol Ther. 39(10):1180-93; Samonakis World Journal of Hepatology, 6(7), pp. 504-512; Sivanathan Dtsch Med Wochenschr, Volume 139, pp. 1758-1762 and Gines New England Journal of Medicine, 350(16), pp. 1646-1654.

Prefilled Syringe with Patent-pending Liquid Formulation

BIV201*	Our liquid formulation of terlipressin. We will seek patent protection in the US, Europe, China and Japan			
Accurate dosing	Eliminates mixing minute quantities of powder terlipressin that could result in medication errors or sterility loss			
Enhanced convenience	Simply inject fluid into the saline bag and attach to pump			
	50 mL bag of saline for Needle or insertion into pump			
	Needle or Insertion into pump Connector			
BIV201 Prefilled Syringe Stable for 18+months at room temp.	Portable pump Carried in small satchel			

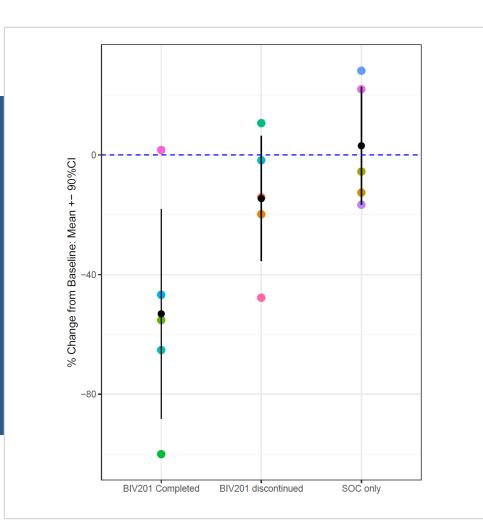
BIV201 Phase 2b trial

Originally targeted 30 patients randomized 2:1

Paused enrollment based on encouraging data from the first 15 patients informing next steps

- 10 randomized to BIV201; 5 randomized to standard of care
- 5 completed 2 X 28-day cycles
- 5 discontinued treatment during or at end of Cycle 1

Change in ascites volume 28d pre-vs post-treatment



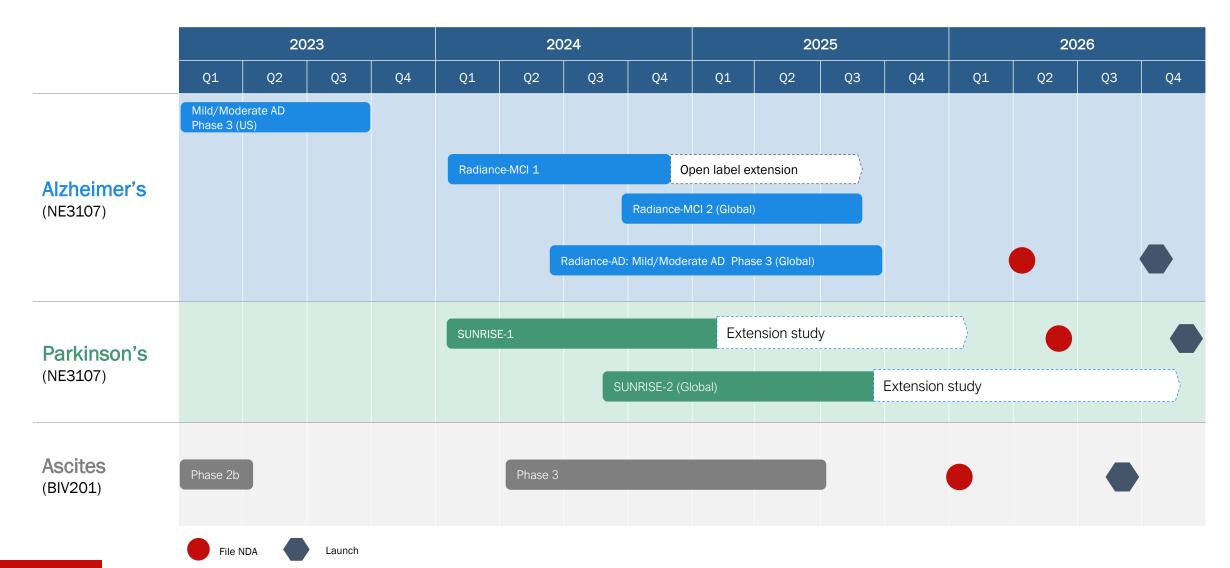
53% reduction in ascites volume among patient completing BIV201 treatment

15% reduction among patients who started but did not complete treatment

3.1% increase for SOC patients

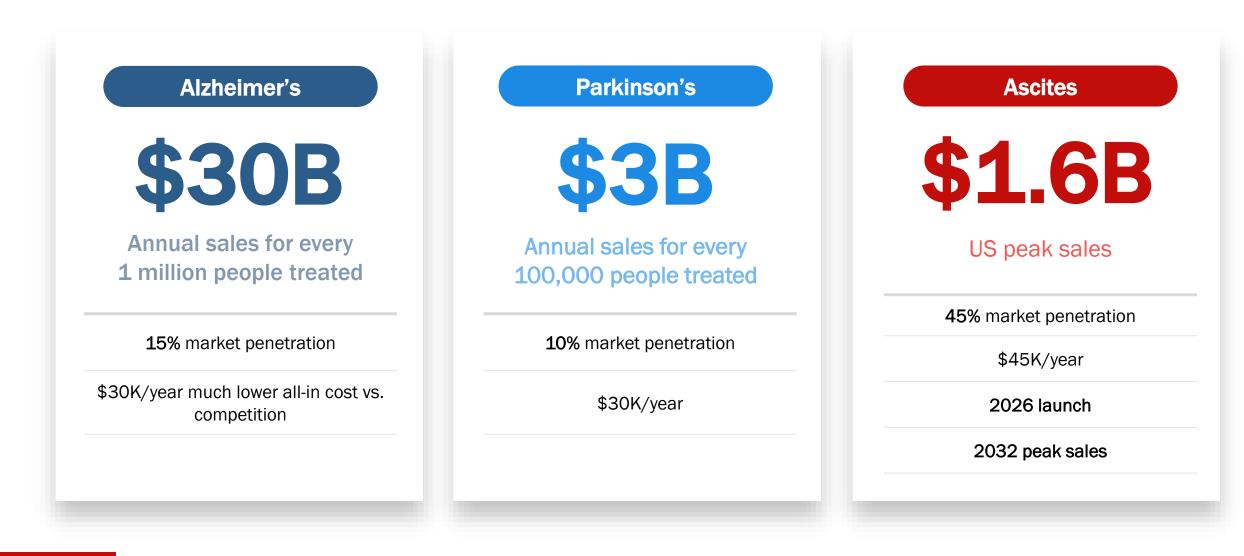
p<0.001

Expected catalysts and anticipated timelines



Commercial potential in US market alone*

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Leadership Team

Deep expertise provides a strong foundation for success



Cuong Do, President & Chief Executive Officer 30+ years in biopharma & technology President, Samsung Global Strategy Group Chief Strategy Officer for Merck, Senior partner at McKinsey & Company



Chris Reading, PhD, Neurodegenerative Disease Program 40+ years in biopharma Chief Scientific Officer, Hollis-Eden Pharmaceuticals VP of Product and Process Dev. for Systemix U Texas Dept. of Tumor Biology



David Morse, Chief Regulatory Officer

35 years experience Regulatory Affairs and multi-region product development strategyFormer VP with two top-5 international CRO'sFormer Associate Director CDER, FDA



Sarah Hoit, Chief Social Impact Officer

30+ years in Social Impact, healthcare and technology CEO & Co-Founder for Connected Living, Inc CEO & Founder for Explore, Inc Deputy Director of AmeriCorps in White House



Joseph Palumbo, MD, Chief Medical Officer

30+ years treating patients; 25+ years in biopharmaCMO, ZynerbaGlobal Head of Medical Science & Translational Research, GlobalHead & Psychiatry Franchise Medical Leader, J&J



Penelope Markham, Liver Cirrhosis Program

25 years in biopharma drug development Lead Scientist Terlipressin (LATPharma/ BioVie 11 years) Head Research Biology Protez Pharma Co-founder/Director of Research Influx Inc.



Clarence Ahlem, Operations

35+ years in biopharma Vice President, Product Development Harbor Therapeutics Director, Product Development, Hollis-Eden Pharmaceuticals US San Diego



J. Wendy Kim, Chief Financial Officer

35 years in finance/ accounting As CFO managed corporate finance and operations groups Closed M&A transactions and secured financings Combined 22 years at KPMG and BDO LLP

Recap

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- Initiates and perpetuates a forward-feeding pro-inflammatory cycle
- Leads to insulin resistance
- Accelerates the "DNA methylation" and the aging process

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- Improved cognition, lowered p-tau levels, and improved brain imaging scans in Alzheimer's Disease (AD)
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NE3107 may change the expression of specific genes in a manner that is significantly correlated to observed cognitive and biomarker changes

- Provides epigenetic basis to explain improvements observed in AD and PD trials
- Gives optimism for what we may see when Phase 3 AD trial reads out in Q4 2023

BIV201 reduces fluid build up and has the potential to become the first therapeutic for ascites, a condition with 50% mortality rate within 12 months. Discussions with FDA underway to finalize Phase 3 trial design

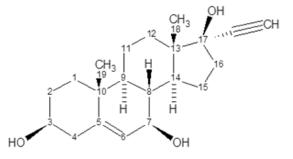
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Thank You

Background on NE3107

First-in-class molecule with desirable characteristics

- Small molecule; orally bioavailable
- Crosses blood-brain barrier, thus CNS and peripheral applications
- No safety issues identified to date in pre-clinical and clinical trials (up to Phase 2)
- Originated by Hollis-Eden Pharmaceuticals (renamed Harbor Therapeutics)
 - NE3107¹ is a synthetic analogue of a metabolite of the adrenal hormone DHEA
- Phase 1 and 2 trials in diabetic patients showed that NE3107:
 - Showed no differences in AEs compared to placebo
 - Decreased insulin resistance, postprandial glucose and HbA1c compared to placebo
 - Decreased inflammation-driven systems dysregulation of inflammatory, hematopoietic and metabolic parameters compared to placebo
- Neurmedix eventually bought the assets and hired the lead scientists with the mandate to:
 - Determine NE3107's mechanism of action
 - Get the drug back into the clinic
- NE3107 turns out to have a very unique and unexpected mechanism of action



Prior NE3107 Clinical Studies

Phase 1¹

Obese, impaired glucose tolerant healthy volunteers

NE3107:

NE3107:

Improved insulin-stimulated glucose disposal, assessed by hyperinsulinemic, euglycemic glucose clamp procedures

Decreased C-reactive protein (CRP²) and increased HDL and adiponectin (both associated with benefit in AD) Showed no differences in AEs compared to placebo

Phase 2³

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Obese and inflamed type 2 diabetes subjects

Decreased insulin resistance, postprandial glucose and HbA1c compared to placebo

Decreased inflammation-driven systems dysregulation of inflammatory, hematopoietic and metabolic parameters compared to placebo⁴

Showed no differences in AEs compared to placebo

2. CRP is a nonspecific marker of inflammation that is increased in the brain and serum of patients with Alzheimer's disease (AD), and has been associated with increased risk of

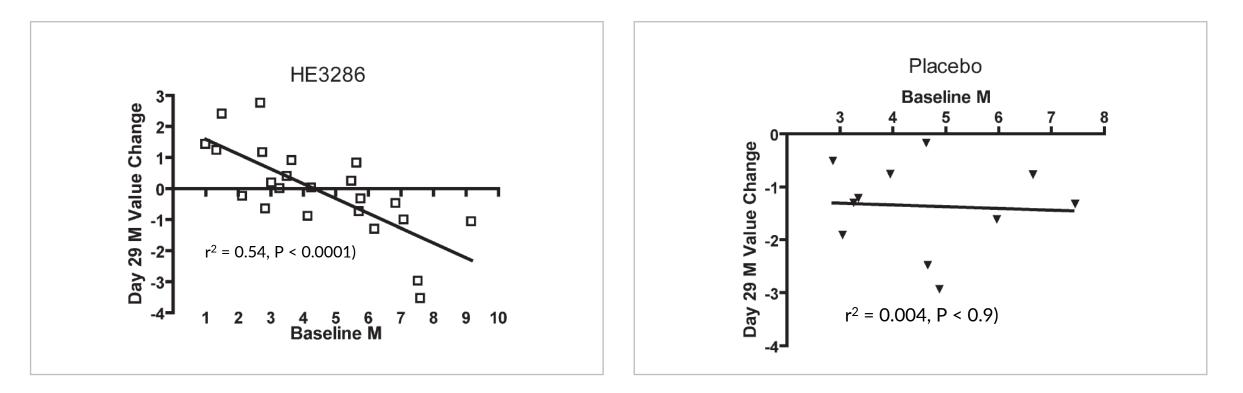
developing dementia 3. Reading 2013 Obesity 21 E343

4. Systems dysregulation in diabetes has been shown to increase risk for AD, and similar systems dysregulation of laboratory and clinical parameters is correlated with AD progression

^{1.} Reading Mediators Inflamm 2013 814989

NE3107's ability to enhance insulin sensitivity reproduced in humans in Phase 1 trial with impaired glucose tolerance patients

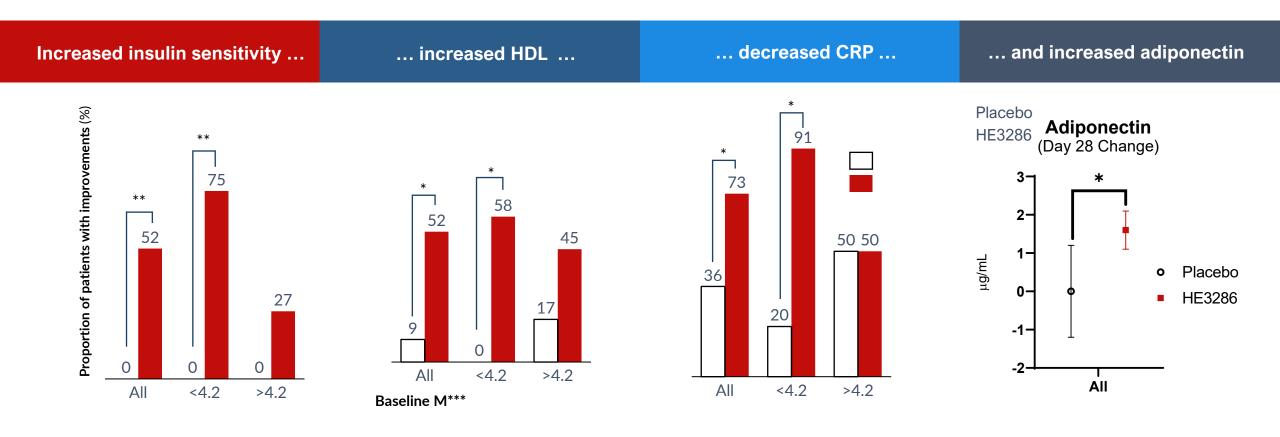
Improved insulin-dependent glucose disposal in 48 obese, inflamed subjects



Day 29 Glucose disposal rate (M, measured in mg/kg/min in glucose clamp studies) value change as a function of baseline M

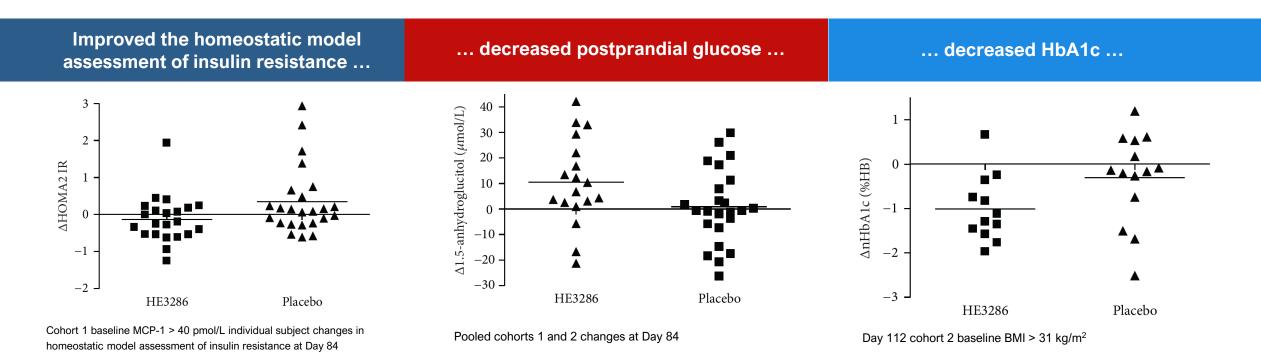
Insulin sensitizing improvement also brought improvements in AD indicators

In a Phase 1 study 48 obese subjects with impaired glucose tolerance, NE3107 ...



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NE3107's ability to enhance insulin sensitivity reproduced in humans in Phase 2 trial with T2D patients



... decreased insulin resistance in inflamed T2D patients

-	Effect	Value	Change		D	Test ^g
			HE3286	Placebo	r	1050
-	∆HOMA2 IR ^c	Day 84 mean	-0.1	+0.4	0.02	t-test

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Inflammation drives systems dysregulation

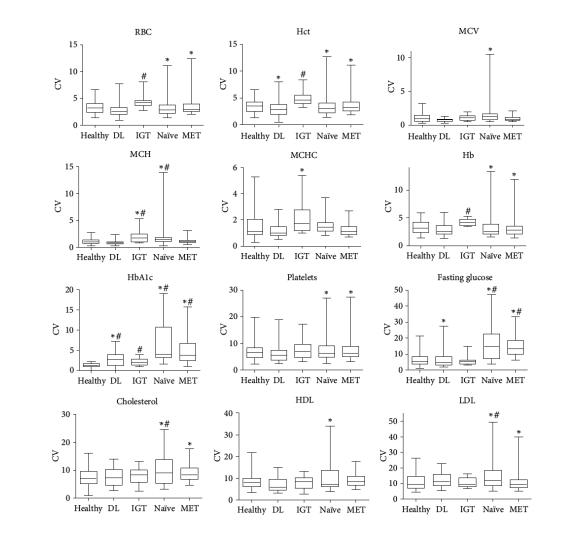
Patients with increasing metabolic disease show greater variability for individual hematology, metabolic and chemistry values

Indicates increasing dysregulation

DL: dyslipidemic placebo group, IGT: impaired glucose tolerant placebo group, Naïve: treatment-naïve uncontrolled T2DM placebo group, MET: uncontrolled T2DM placebo group on a stable dose of metformin

Hb: hemoglobin, Hct: hematocrit, RBC: red blood cell count, MCV: mean cell volume, MCH: mean corpuscular hemoglobin, MCHC: mean corpuscular hemoglobin concentration, HbA1c: hemoglobin A1c, HDL: high density lipoprotein cholesterol, LDL: low density lipoprotein cholesterol.

#Statistically Significant Welch ANOVA). *Statistically significant 2-sided *FF* test.



NE3107 decreased systems dysregulation in a Phase 2 study in advanced T2D patients

Heteroscedasticity* investigated by analyzing data distributions for normality (Shapiro-Wilks W test)

• Deviations from normal distribution represents dysregulation

Placebo patients had significantly abnormal data distributions after 84 days of treatment whereas NE3107 subjects did not

- Placebo patients had many parameters that significantly deviated from normal distribution (i.e., dysregulated)
- NE3107 treatment reduced systems dysregulation

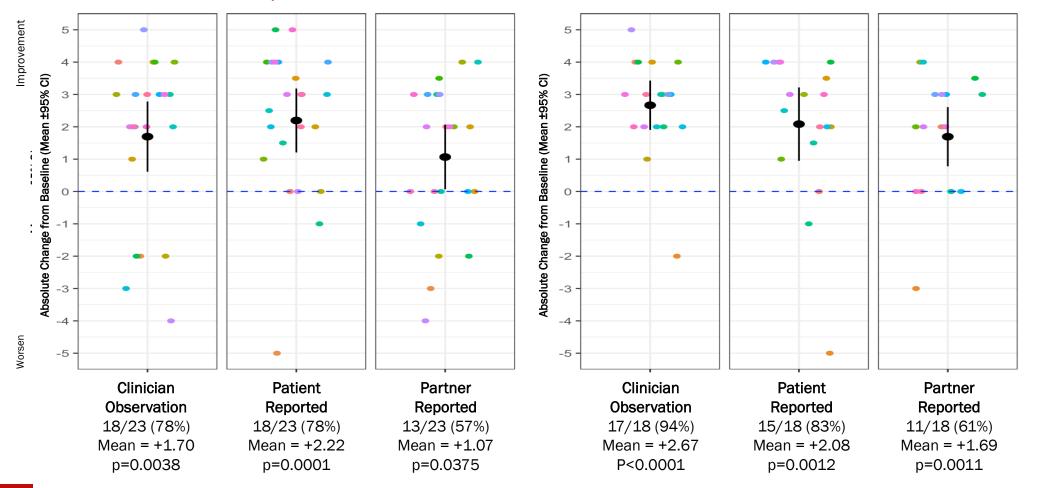
Group	Cohort 1	MCP-1 > 40	Cohort 2	BMI > 31	
HE3286	n=44	n=22	n=35	n=12	
Placebo	n=51	n=25	n=34	n=15	

Group	Day	Parameter	HE3286	Placebo
			W test P	W test P
	84	∆Insulin ^d	>0.1	< 0.0001
		∆C-peptide	>0.1	< 0.0001
Cohort 1		∆Fasting glucose	>0.1	0.02
Conorri		ΔHOMA2 %B	>0.1	< 0.0001
		ΔHOMA2 IR	>0.1	0.002
		∆leptin	>0.1	0.005
Cohort 1	84	ΔHbA1c	>0.1	0.006
$MCP-1 > 40^{b}$		∆Fasting glucose	>0.1	0.02
MCP-1 > 40		ΔHOMA2 %B	>0.1	< 0.0001
	84	∆nHbA1c	>0.1	0.04
		∆Insulin	>0.1	>0.1
		∆Fasting glucose	>0.1	0.03
		ΔHOMA2 %B	>0.1	>0.1
Cohort 2		Δ MCP-1	>0.1	0.005
		∆Triglycerides	>0.1	< 0.0001
	112	∆nHbA1c	>0.1	0.0007
		∆Insulin	>0.1	>0.1
		∆Fructosamine	>0.1	0.002
		ΔHOMA2 %B	>0.1	< 0.0001
	84	ΔHOMA2 %B	>0.1	0.007
		Δ MCP-1	>0.1	>0.1
		∆Triglycerides	>0.1	>0.1
Cohort 2	112	∆Insulin	>0.1	< 0.0001
$BMI > 31^{c}$		∆C-peptide	>0.1	< 0.0001
		ΔHOMA2 %B	>0.1	< 0.0001
		ΔHOMA2 IR	>0.1	< 0.0001

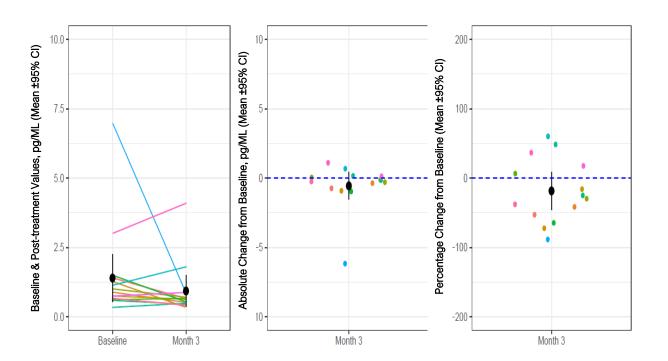
Large majority of patients improved significantly on the Global Rating of Change (overall impression)

All patients

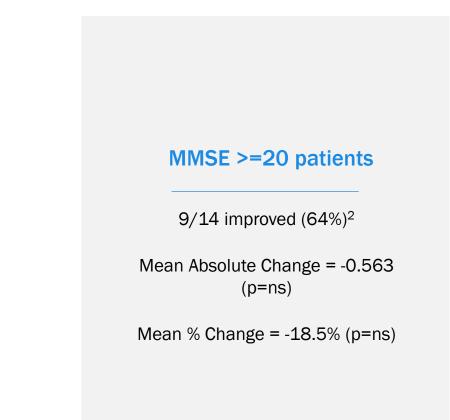
MMSE >=20 patients



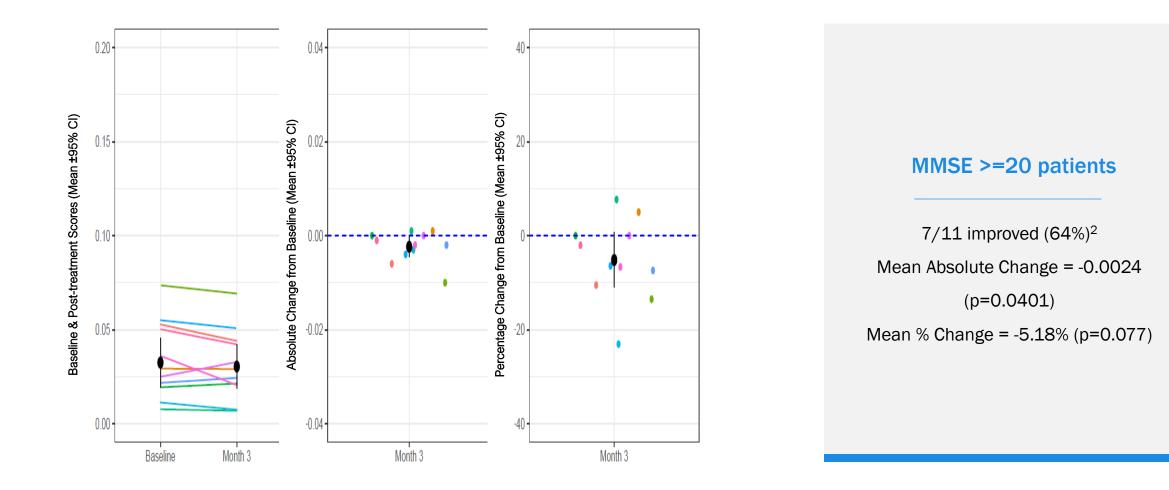
Improvements on TNFa among MCI/Mild AD patients



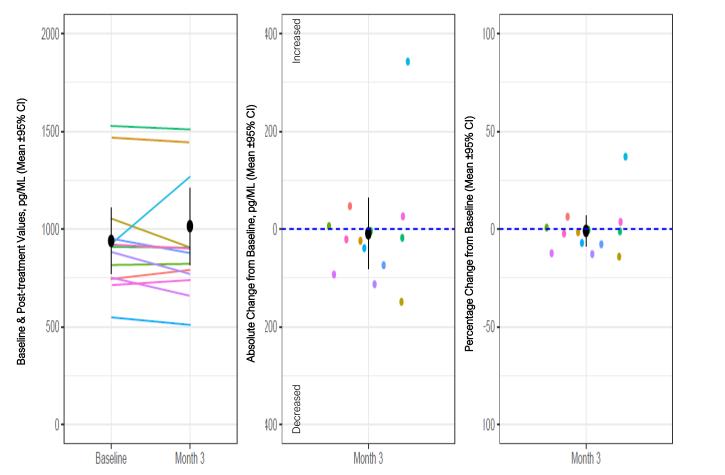
Tumor Necrosis Factor Alpha (TNF α) is a cytokine identified as a major regulator of inflammation whereby its excessive activation is associated with chronic inflammation¹

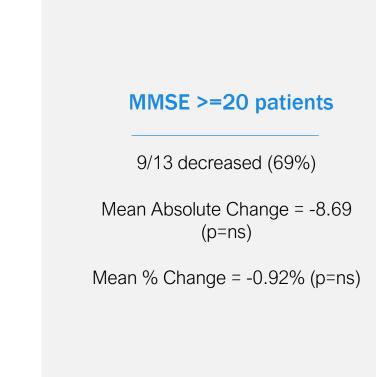


Significant improvements in the CSF p-tau : Ab42 Ratio, a predictive measure of PET amyloid status¹...



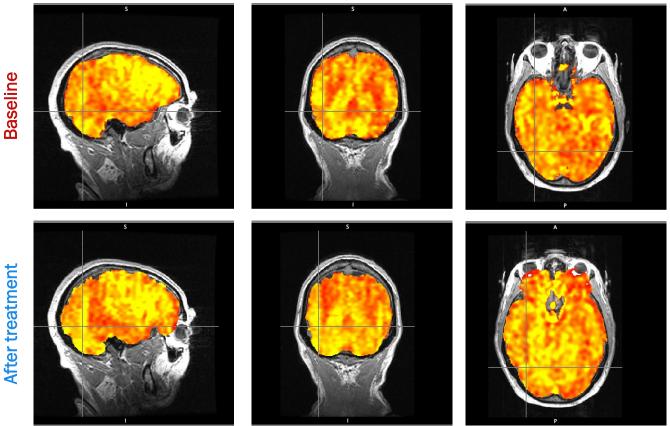
Modest improvements in CSF Ab₄₂





Arterial Spin Label Imaging suggests NE3107 enhances blood flow in the brain, a marker for brain activity

Patient NO8 – Global Rating of Change +3.5 (Partner Reported)



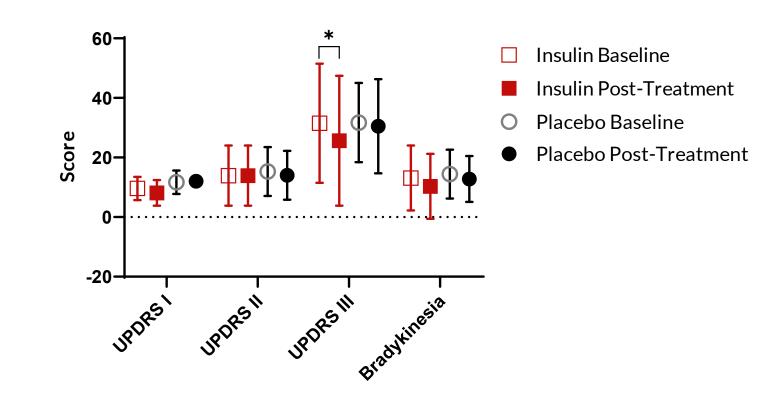
Arterial Spin Label Imaging looks at the flow of oxygenated hemoglobin

Yellow indicates the most relative enhancement of flow while red indicates enhancement

The Role of Reduced Insulin Signaling in Parkinson's Disease

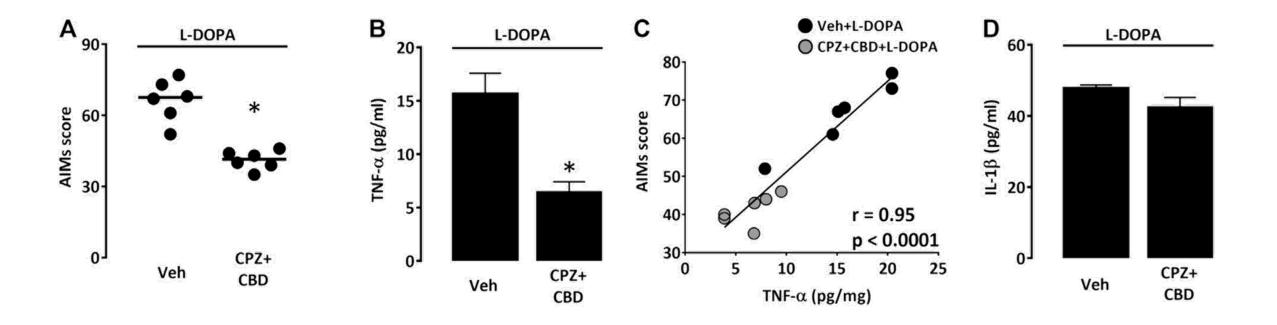
Stimulation of insulin signaling improves motor function in Parkinson's patients

Intranasal Insulin Treatment Reduced Inflammation and Improved Motor Activity



Inflammation's Role in LID

Reduction of TNF-induced inflammation reduces LID

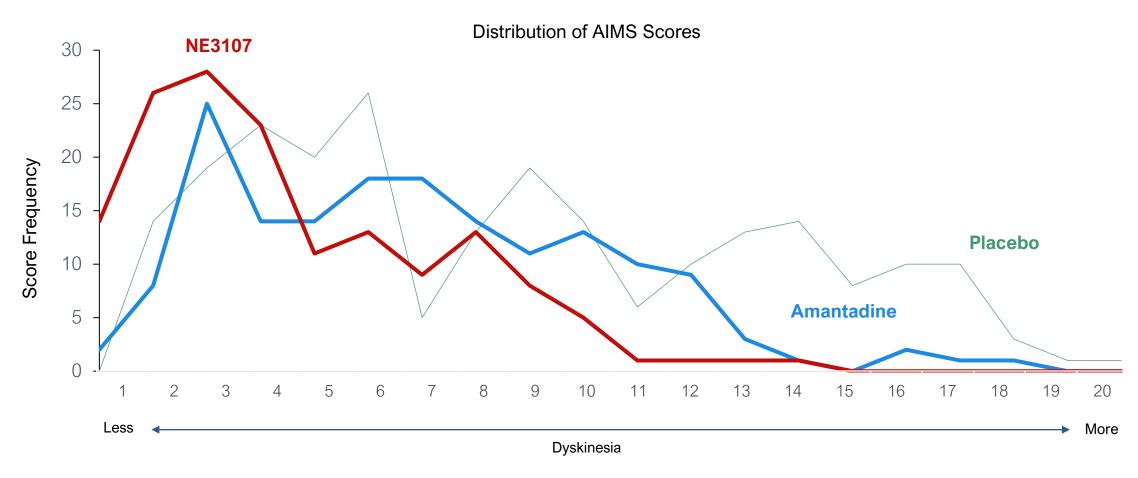


6-OHDA: 6-hydroxydopamine-lesioned mice rendered dyskinetic; AIM: Abnormal Involuntary Movement Scale (lower is better); CPZ-CBD: capsazepine (CPZ) with cannabidiol (CBD), anti-inflammatory agents

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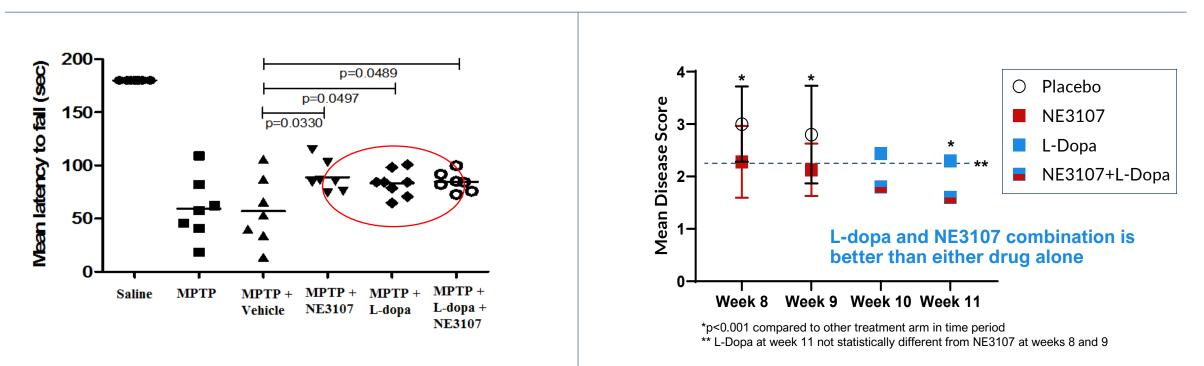
NE3107 decreases L-Dopa-induced dyskinesia (LID) in marmosets



Abnormal Involuntary Movement Scale (AIMS)

NE3107 has similar promotoric activity to L-dopa in rodent and marmoset models

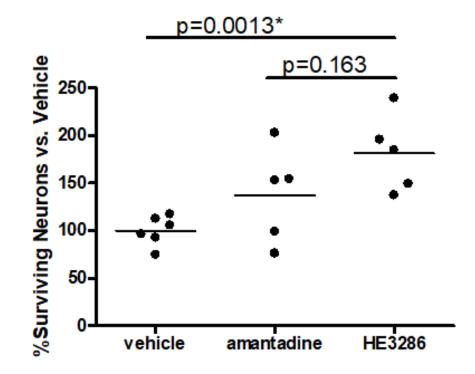
MPTP Mouse



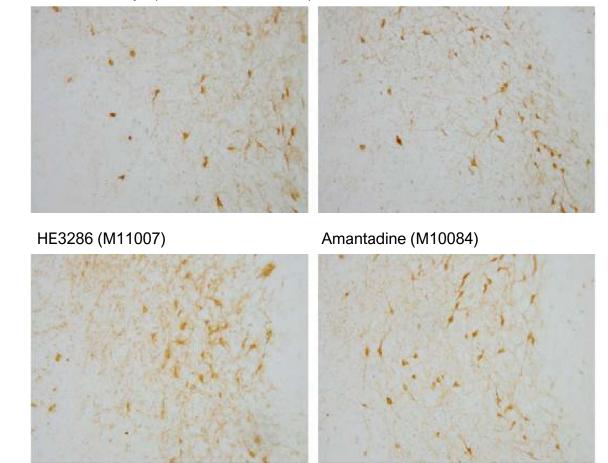
MPTP Marmoset treated at Week 8

NE3107's promotoric effects observed within 4 days of treatment

NE3107 preserved TH+ neurons in MPTP marmosets



Control moneys (M09100 and M11008)



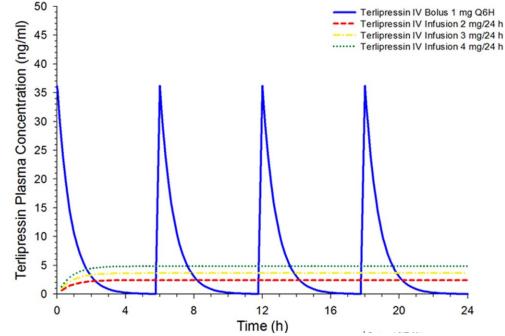
BIV201

- Terlipressin administered as a continuous infusion
 - Outpatient treatment with small ambulatory infusion pump
- Targets the pathophysiology of ascites
 - Multiple small trials and Phase 2a support efficacy in reducing ascites
- Orphan and Fast Track Designations for the treatment of ascites due to all etiologies except cancer
- Mallinckrodt's Terlivaz approved in US 2022 indicated to improve kidney function in adults with hepatorenal syndrome with rapid reduction in kidney function. Does not impact BIV201 Clinical Program
 - Approved for different indication Orphan market exclusivity for HRS
 - Administered in conjunction with daily albumin
 - Different dosage form and administration (intermittent bolus injections)
 - Restricted to hospital setting black box warning
- Impacts BIV201's regulatory pathway and non-clinical package for NDA (505(b)(1))

BioVie Phase 2a trial results: BIV201 Pharmacokinetics

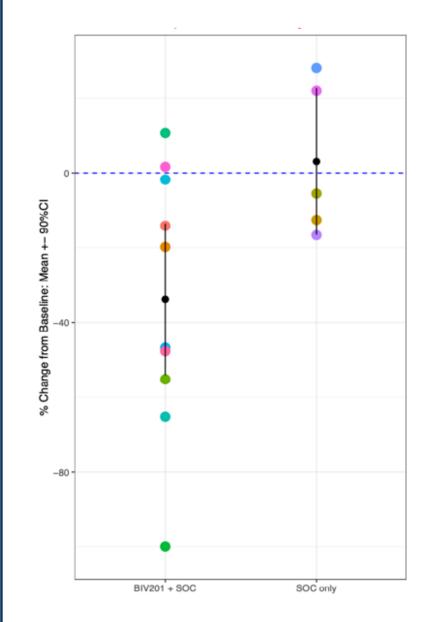
Continuous low blood levels of terlipressin versus spikes with IV-bolus dosing

Comparison of the PK Profile of Terlipressin Administered by Continuous Infusion or Intermittent IV Boluses.



Simulated terlipressin plasma concentrations following IV bolus of 1 mg every 6 hours 1 [Lucassin, AusPAR-cer 2011] and IV continuous infusions of 2 mg, 3 mg, or 4 mg per day

Ascites volume (L) 28d pre- vs 28d post-treatment



BIV201 + SOC Mean: 34 % reduction 5/10 (50%) with >40% reduction P=0.0046

SOC only Mean: 3.1 % increase 0/5 (0%) with >40% reduction P=0.8

BIV201 vs SOC P value = 0.05 for difference