



Innovative Treatments for Central Nervous System Disorders

March 2023

Allosteric modulators for human health

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Addex Overview

Multiple high value programs reaching significant milestones

- Phase 2 epilepsy study (J&J) – completion of part 1 expected end of Q1 2023
- Dipraglurant (mGlu5 NAM) – Phase 2 ready & indication under evaluation
- GABAB PAM for SUD (Indivior), chronic cough, pain & CMT1A
- mGlu7 NAM for stress related disorders (PTSD) and schizophrenia

Leading allosteric modulator technology platform

- Validated & differentiated pharmacological approach
- Proprietary biological screening assays and chemical library
- Track record of delivering novel drug candidates

In house discovered pipeline

- Significant intellectual property portfolio
- Multiple novel drug candidates entering clinical candidate selection
- Driving long-term growth & future partnership opportunities

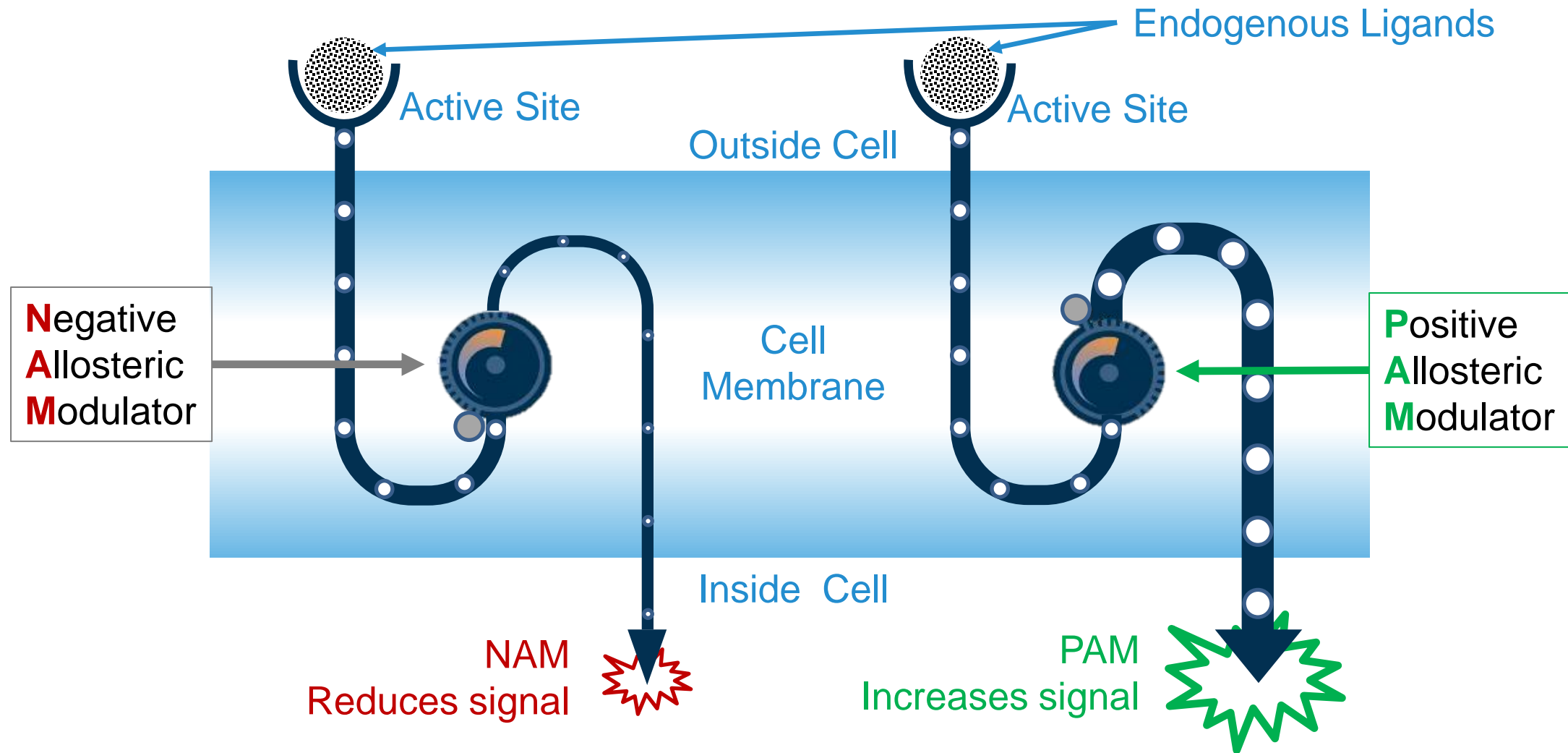
Technology validating partnerships with industry

- J&J - €109M in milestones & double-digit royalties
- Indivior - \$330M in milestones, royalties up to double digit & funded research program

Top tier US investors

- Dual listed on SIX Swiss Exchange & US Nasdaq Capital Market
- CHF7.0M cash at December 31, 2022

What are Allosteric Modulators?






Advantages of Allosteric Modulation Versus Orthosteric Drug Discovery

	Conventional small molecules	Biologics / peptides	Nucleic acid-based therapies	Gene therapies	Allosteric modulators
Selectivity	+	++	+++	+++	✓
Differentiated pharmacology	-	-	+++	+++	✓
Better potential safety/tolerability	++	+	++	-	✓
Non-competitive mechanism	-	-	n/a	n/a	✓
Respects physiological rhythm	-	-	-	-	✓
Oral bioavailability	+++	-	-	-	✓
Crossing BBB	+++	-	-	-	✓
No immunogenicity	+++	-	+	+	✓
Low cost of goods	+++	-	-	-	✓

Allosteric modulators

- Address:
 - “Undruggable” targets, such as GPCRs, RTKs, cytokine receptors and enzymes
 - mAb and peptide drug targets with oral small molecules
- Offer exquisite selectivity and superior safety profile
- Are suitable for chronic treatment as potency maintained over prolonged periods
- Require a distinct HTS and characterization approach to discovering small molecule allosteric modulators
- Proven clinical approach (diazepam, cinacalcet, etc)

Addex Pipeline

Molecule / MoA	Indication	Partner	Pre-clinical	Phase 1	Phase 2	Phase 3	Milestone
ADX71149 (mGlu2 PAM)	Epilepsy		<div></div>				Completion of part 1 end Q1 2023
Dipraglurant (mGlu5 NAM)	PD-LID, pain, SUD, pain, post-stroke/TBI recovery and NDD		<div></div>				Indication under evaluation
GABA _B PAM	Substance use disorders		<div></div>				IND enabling expected 2023
	Chronic cough, pain & CMT1A		<div></div>				IND enabling studies expected 2023
mGlu7 NAM	Stress-related disorders - PTSD		<div></div>				IND enabling studies expected H1 2023
mGlu2 NAM	Mild neurocognitive disorders & depression		<div></div>				
M4 PAM	Schizophrenia / other psychosis		<div></div>				
mGlu4 PAM	Parkinson's & autoimmune disorders		<div></div>				
mGlu3 PAM	Neurodegenerative disorders		<div></div>				

NAM = Negative
Allosteric Modulator
PAM = Positive
Allosteric Modulator

PD-LID = Parkinson's disease levodopa induced dyskinesia
SUD = Substance use disorders
NDD = Neurodevelopmental disorders
TBI = Traumatic brain injury
CMT1A = Charcot-Marie-Tooth disease type 1A
PTSD = Post-traumatic stress disorder

Experienced Team

Leadership Team

<p>Tim Dyer CEO / CFO</p> <p>Co-Founder of Addex Formerly with PwC UK Chartered Accountant</p>	<p>Dr Roger Mills Chief Medical Officer</p> <p>Developed Nuplazid for PD Psychosis >30 years Pharma industry incl. Pfizer, Gilead and Acadia</p>	<p>Dr Robert Lutjens Head of Discovery Biology</p> <p>Member of Addex founding team Formerly with Glaxo & Scripps Research Institute</p>	<p>Dr Jean-Philippe Rocher Head of Discovery Chemistry</p> <p>Member of Addex founding team Formerly with Pierre Fabre, GlaxoSmithKline and Mitsubishi</p>	<p>Dr Mikhail Kalinichev Head of Translational Science</p> <p>Neuropharmacologist with >20 years pharma industry experience Formerly with Ipsen, Lundbeck and GlaxoSmithKline</p>
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Non-executive Directors

<p>Vincent Lawton Chairman</p> <p>Former European Head of Merck & Co. Former MHRA Board member</p>	<p>Ray Hill Board member</p> <p>Former Executive Director Merck & Co.</p>	<p>Jake Nunn Board member</p> <p>Venture advisor and former Partner at New Enterprise Associates</p>	<p>Isaac Manke Board member</p> <p>General Partner at Acorn Bioventures. Formerly Partner at New Leaf Venture Partners</p>
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Scientific Advisory Board

<p>Darryle Schoepp Chairman of SAB</p> <p>Former leader of Neuroscience research department at Eli Lilly, and at Merck was Neuroscience research therapeutic area leader</p>	<p>Mark Bear Picower Prof. of Neuroscience at MIT</p> <p>Formerly on faculty of Brown University School of Medicine and an Investigator of the Howard Hughes Medical Institute</p>	<p>Peter Bernstein Principal, PhaRmaB LLC</p> <p>Formerly with ICI Astra Zeneca Awarded numerous accolades including Fellow of the American Chemical Society</p>	<p>Benny Bettler Biomedicine Prof. at Basel University</p> <p>Formerly at Novartis and discovered allosteric modulators at GABA_B receptor and recipient of the Peter Speiser Award</p>
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ADX71149 (JNJ-40411813) for Epilepsy Partnered with Janssen Pharmaceuticals, Inc.

ADX71149 Opportunity in Epilepsy

Large market & unmet medical need

- Market projected to reach \$20 billion by 2026*
 - Keppra market leader with > 2M patients & €800M p.a.**
- High proportion of refractory patients (¼ of new patients***) - combination treatments have limited therapeutic benefit
- Large underserved patient population in need of improved treatment options

Strong MoA & synergistic effect

- Selective oral mGlu2 PAM demonstrated clear MoA in epilepsy
- Showed 35-fold increase in Keppra (SV2A antagonist) efficacy
- Potential to reduce Keppra dosing – improve efficacy & reduce side effects

Status of development

- Extensive preclinical and clinical data - 9 Phase 1 and 2 Phase 2 studies
- Japan Phase 1 completed in Q4 2021
- Phase 2 POC study ongoing – completion of Part 1 end of Q1 2023
- 2 year open label extension study initiated in Q3 2022

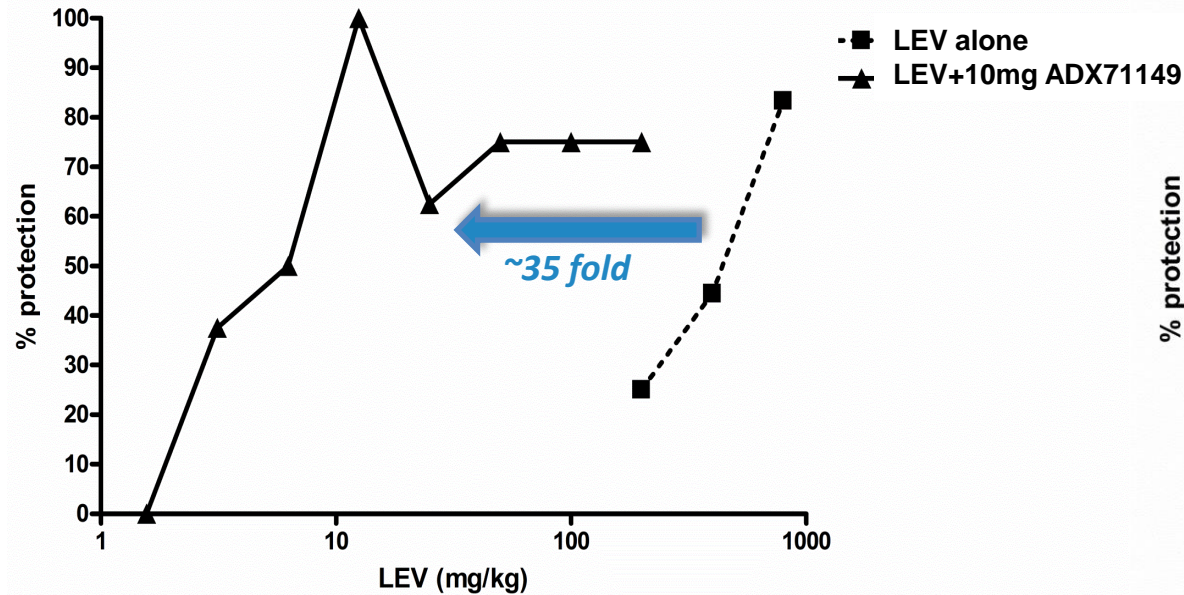
Strategic Partner Janssen Pharmaceuticals, Inc.

- Eligible to receive €109 million in pre-launch milestones and double digit royalties

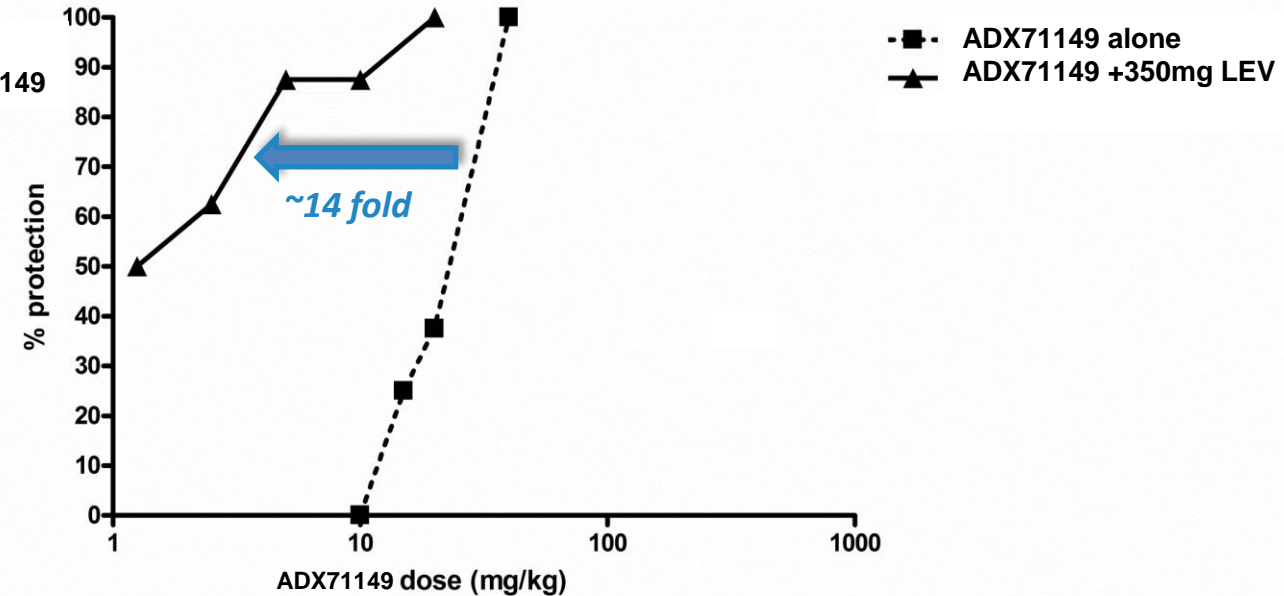
ADX71149 Preclinical Efficacy in Epilepsy - 6Hz Model

- Preclinical validation in pharmaco-resistant mouse epilepsy model with high translational value:

ED₅₀ shift of Keppra by adding low dose of ADX71149

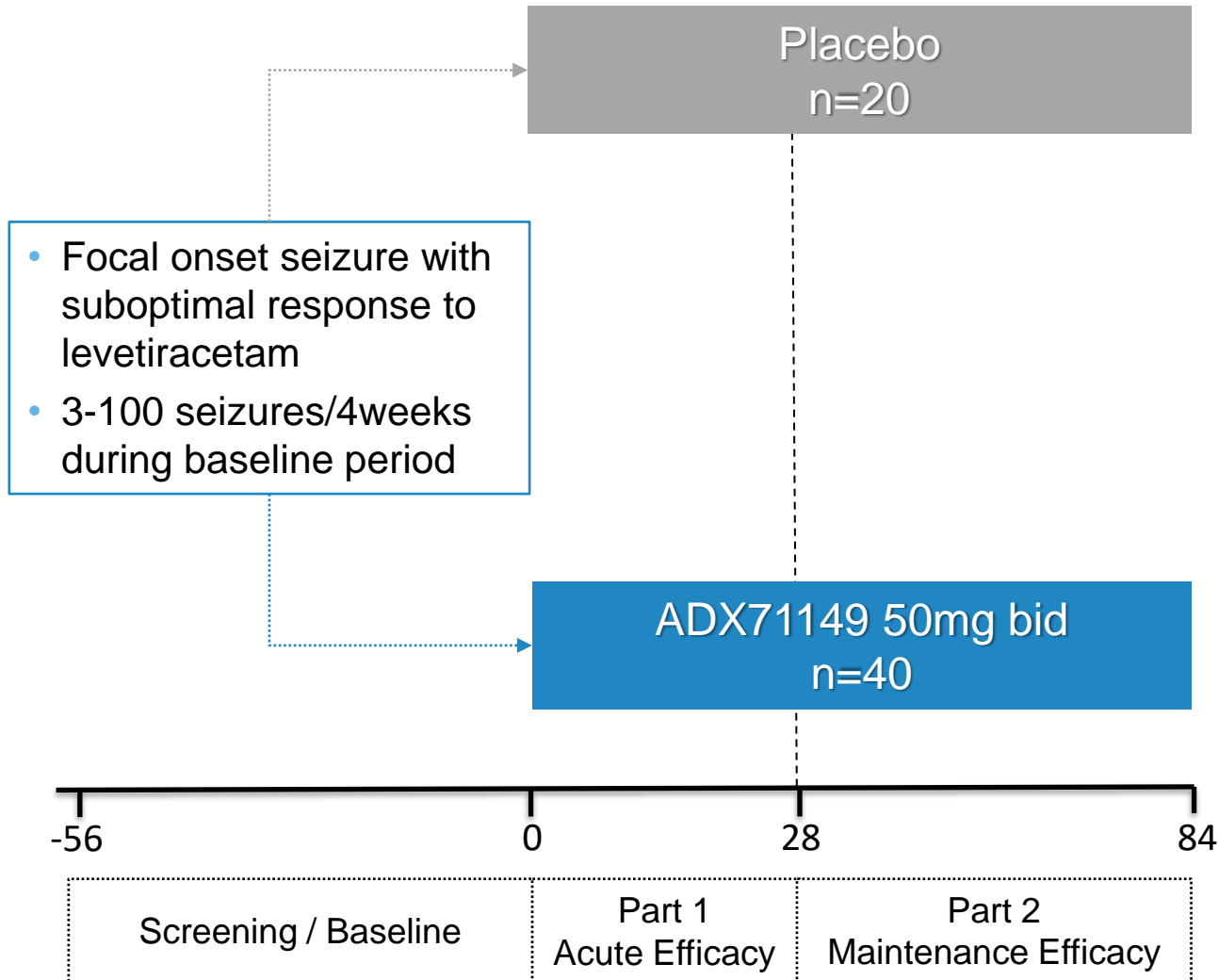


ED₅₀ shift of ADX71149 by adding ED₅₀ dose of LEV



- Keppra efficacy increased 35-fold when administered with a low dose of ADX71149
- Low dose of Keppra leads to 14-fold increase in efficacy of ADX71149
- True synergistic effect

ADX71149 Phase 2a Epilepsy Study



- Double blind placebo controlled
- Establish 28-day seizure count (over 56-day baseline period)
- Primary endpoint: time to monthly baseline seizure count
- Period 1: 4-week acute efficacy phase
- Period 2: 8-week maintenance efficacy phase
 - Subjects who do not reach or exceed their monthly baseline seizure count in Part 1 continue double-blind treatment during Part 2

Completion of part 1 expected end of Q1 2023

Dipraglurant (mGlu5 NAM) – Phase 2 Ready

Indications Under Evaluation:
PD-LID, SUD, Post-Stroke Recovery, Pain and NDD

Dipraglurant Phase 2 Ready Opportunity in Multiple Indications

Significant target patient populations and commercial opportunities	<ul style="list-style-type: none">• PD-LID: 200,000 patients in US, Orphan drug designation granted in US• SUD: 20 million patients in US and 2.2% of adult population worldwide• Pain: up to 10% of adult population are diagnosed with chronic pain every year• TBI & stroke recovery: 5.3 million patients incl. 1 million stroke patients in US• Neurodevelopmental disorders - Fragile X: 50K Fragile X patients in US
Clinically validated approaches	<ul style="list-style-type: none">• Dipraglurant (ADX48621) reduced PD-LID in Phase 2• ADX10059 reduced pain in patients with episodic migraine• Mavoglurant (AFQ056) effects in PD-LID, CUD, AUD, Fragile X, OCD, GERD• Basimglurant (RG-7090; NOE-101) currently in Phase 2 for trigeminal neuralgia
Status of development	<ul style="list-style-type: none">• Extensive preclinical and clinical data – 5 Phase 1 and Phase 2 POC in PD-LID completed• Phase 2 ready with >30kg cGMP API and >90kg DP in 100mg & 50mg tablets
Intellectual property	<ul style="list-style-type: none">• Composition of matter through June 2025 & strong polymorph patent through 2034 (without extensions)• Potential for additional protection - formulation IP & ODD (granted for PD-LID)

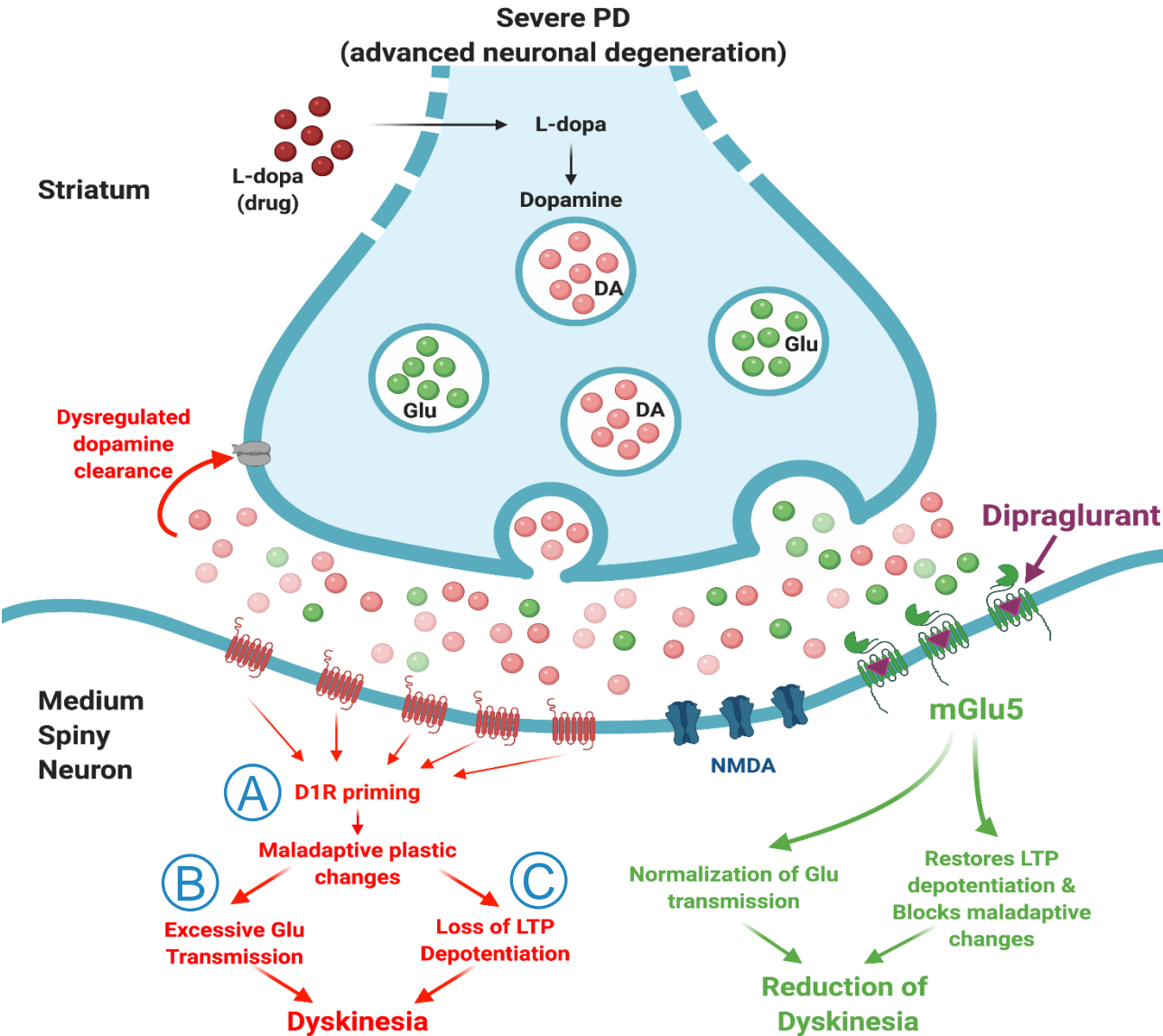
Compelling Rationale to Develop Dipraglurant for PD-LID

- Large underserved patient population in need of improved treatment options
- Significant commercial opportunity with limited competition
 - 1M Parkinson's disease patients in US of which >170,000 have dyskinesia
 - Orphan drug designation granted for dipraglurant in US
 - GOCOVRI® price: \$34K p.a., Nuplazid® price: \$45K p.a.
 - US LID market estimated at \$4B
- Strong mechanistic rationale for blocking mGlu5 to inhibit glutamate signalling
- Supportive pre-clinical data and Phase 2 clinical data
- PK profile ideally suited for treatment of LID
- Dipraglurant is active on same biological pathway as amantadine (inc. GOCOVRI®)
 - Decreases glutamatergic tone
 - Unlike amantadine, dipraglurant:
 - Restores synaptic plasticity to prune aberrant signalling
 - Highly selective with limited off target activity
- Novartis mGlu5 NAM (AFQ056) data supportive of mGlu5 target & rationale for dipraglurant PK profile

Disability and Impact of PD-LID

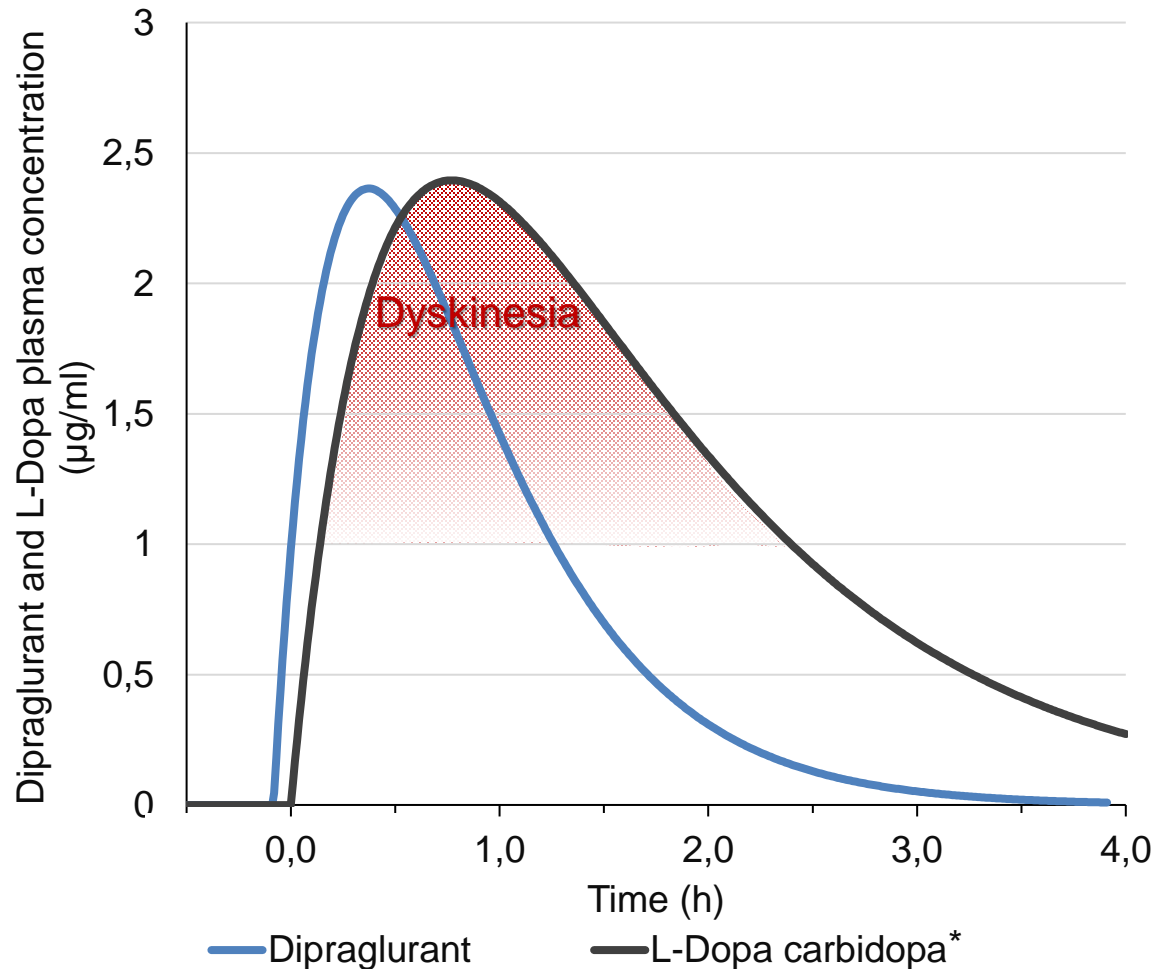
Invariably associated with long-term L-dopa use	<ul style="list-style-type: none">• Dyskinesias caused by neurodegeneration• Dopamine replacement lowers the triggering threshold for symptoms• LID can become as disabling as the PD symptoms themselves
Symptoms include dystonia, chorea, and choreoathetosis	<ul style="list-style-type: none">• Uncontrollable muscle contractions, twisting and writhing• Painful and severely disabling• Causes fatigue/exhaustion and increased risk for falls and injuries• Social withdrawal, reduced quality of life and increased burden on caregiver
Prevalence related to disease duration	<ul style="list-style-type: none">• >40% of patients experience LID within 4-6 years of L-dopa treatment• Increases to 90% after 9 -15 years• Patients treated with next-generation L-dopa will still experience LID
PD drug efficacy wanes over time - exacerbated by emergence of LID	Treatment becomes a balancing act requiring constant adjustments to ensure symptom control & minimize intolerable side effects

MoA Rationale for Targeting mGlu5 Inhibition in PD-LID



- Loss of substantia nigra neurons combined with the non-physiological, pulsatile stimulation of dopamine receptors with L-dopa are at the basis of LID development
- In the striatum, LID is the result of:
 - A** *D1 receptor priming*
 - B** *Excess glutamate transmission*
 - C** *Loss of LTP depotentiation*
- mGlu5 receptor is an attractive target due to its modulatory action - normalizing glutamatergic activity and restoring LTP depotentiation
- Inhibiting mGlu5 decreases excess glutamatergic tone thereby controlling dyskinesia
- Dipraglurant is an oral, highly selective NAM of the mGlu5 receptor

Dipraglurant PK is a Key Advantage for Treating LID

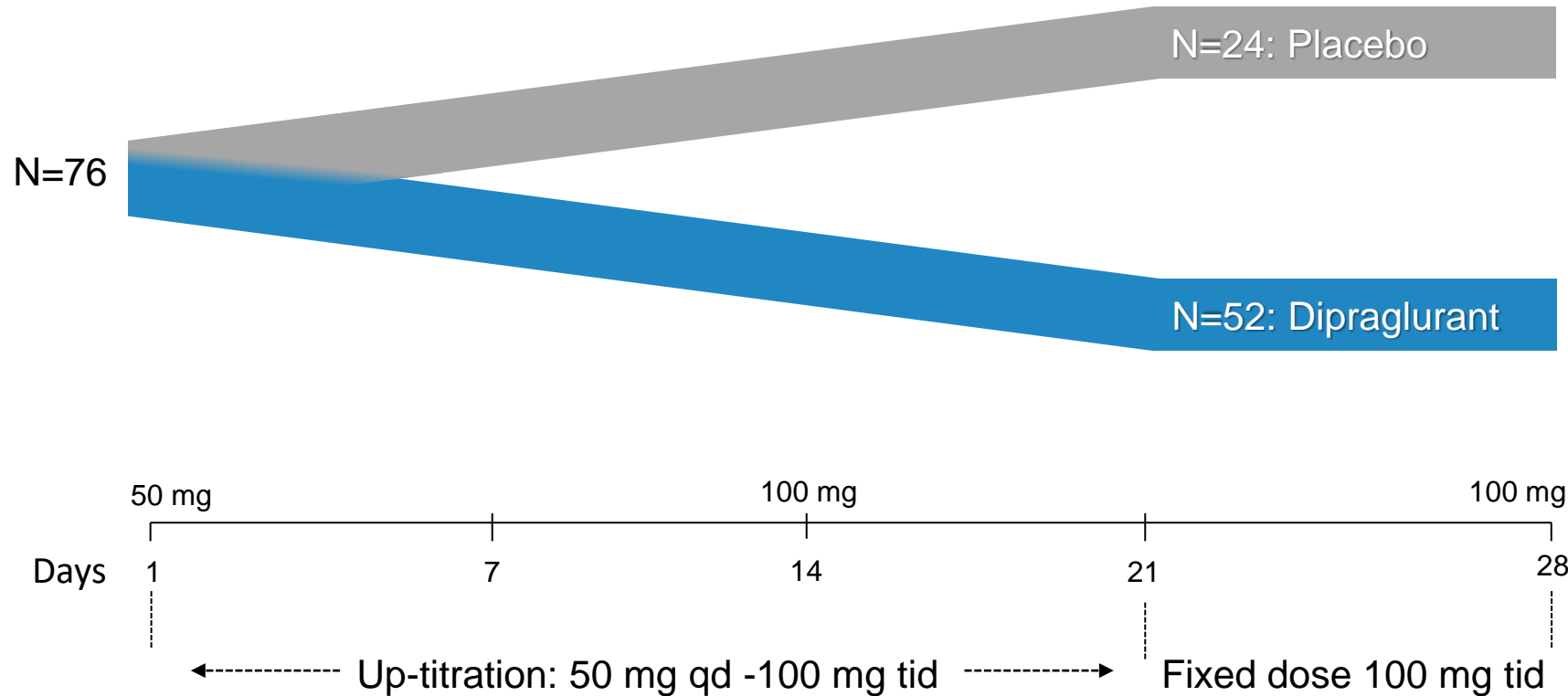


- Dyskinesia symptoms are correlated to peak levels of L-dopa
- PK of dipraglurant allows control of glutamatergic tone ahead of L-dopa Cmax

Dipraglurant normalizes abnormal glutamate stimulation during peak levodopa dose

Dipraglurant peaks ahead of L-dopa for optimal LID control

Dipraglurant Phase 2a Study in LID (in US and Europe)



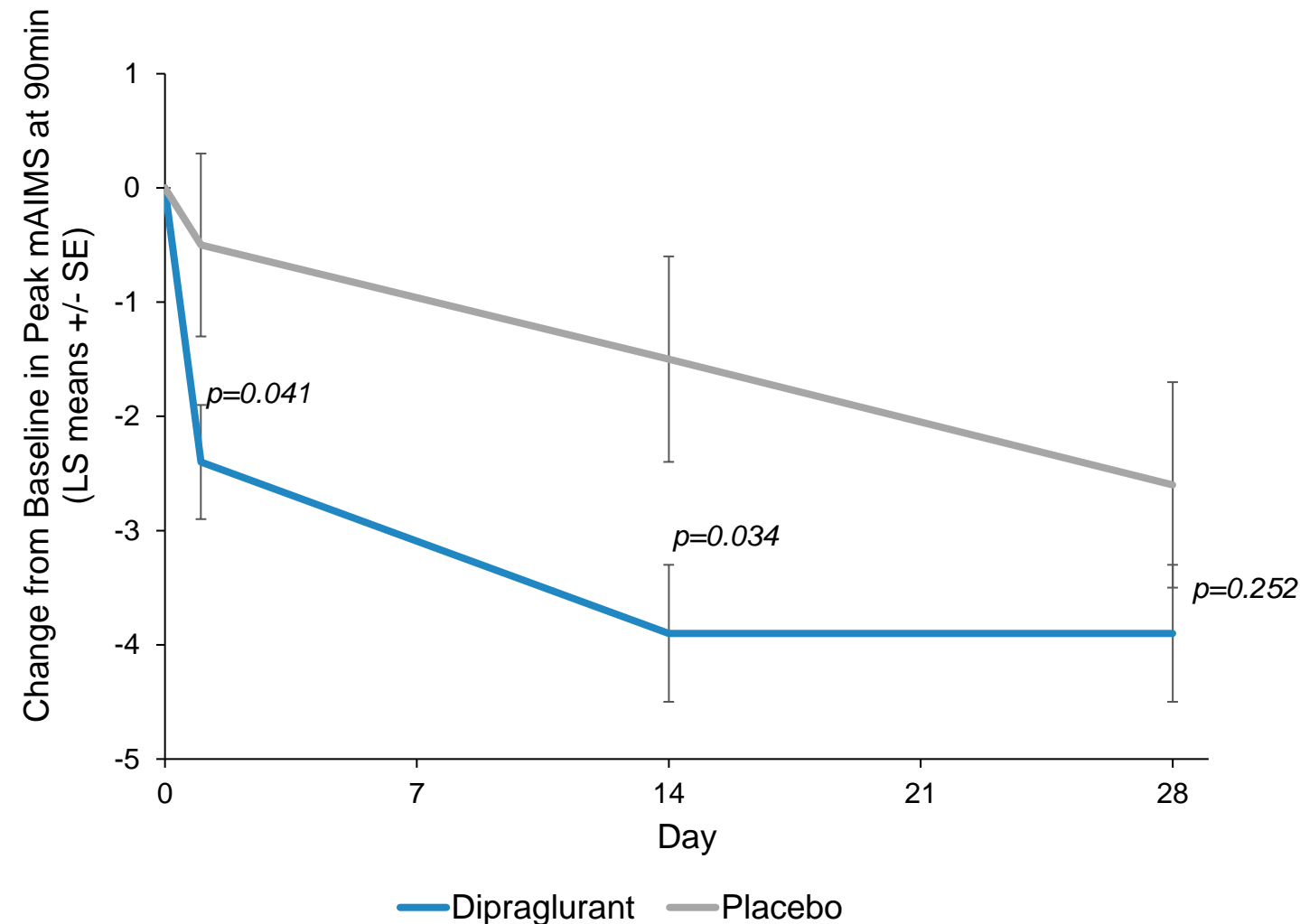
- **Primary objective:** safety & tolerability

- **Secondary objective:** exploratory efficacy:

- Modified Abnormal Involuntary Movement Scale (mAIMS) on days 1, 14 and 28
- Clinician Global Impression of Change (CGIC)
- Patient diaries of “On” & “Off” time

Measured acute effect of mid-day dose on days 1, 14 and 28

Dipraglurant Improves LID by 30%

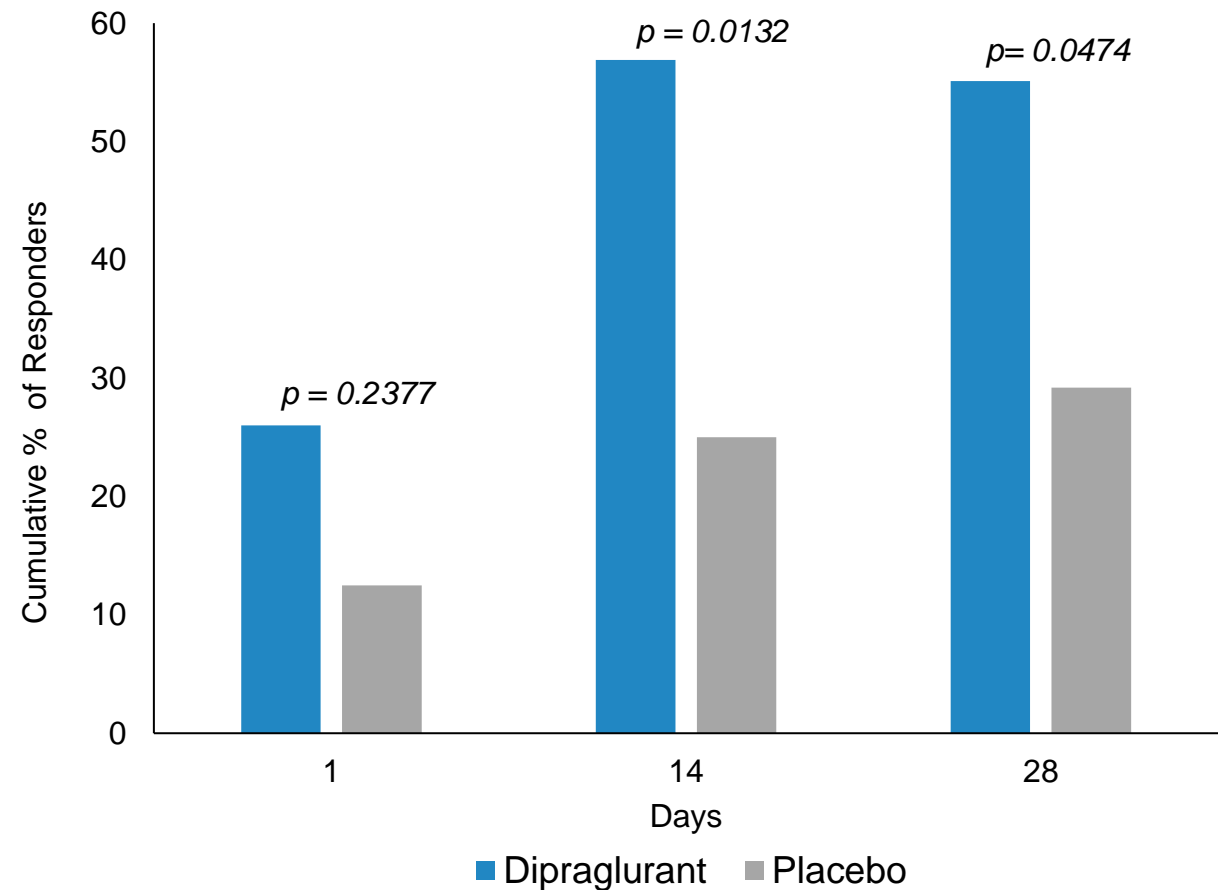


- Statistically significant effects: Day 1 (50mg) and Day 14 (100mg)
- Improvement maintained through Day 28
- Increasing placebo response caused significance to be lost at Day 28
- No placebo mitigation in study

Mean % change of peak mAIMS from baseline		
Midday dose	Dipraglurant	Placebo
Day 1 (50 mg)	19.9%	4.1%
Day 14 (100 mg)	32.3%	12.6%
Day 28 (100 mg)	31.4%	21.5%

Responder Analysis Demonstrates Dipraglurant Significant Benefit

Percent of patients with $\geq 30\%$ improvement on mAIMS

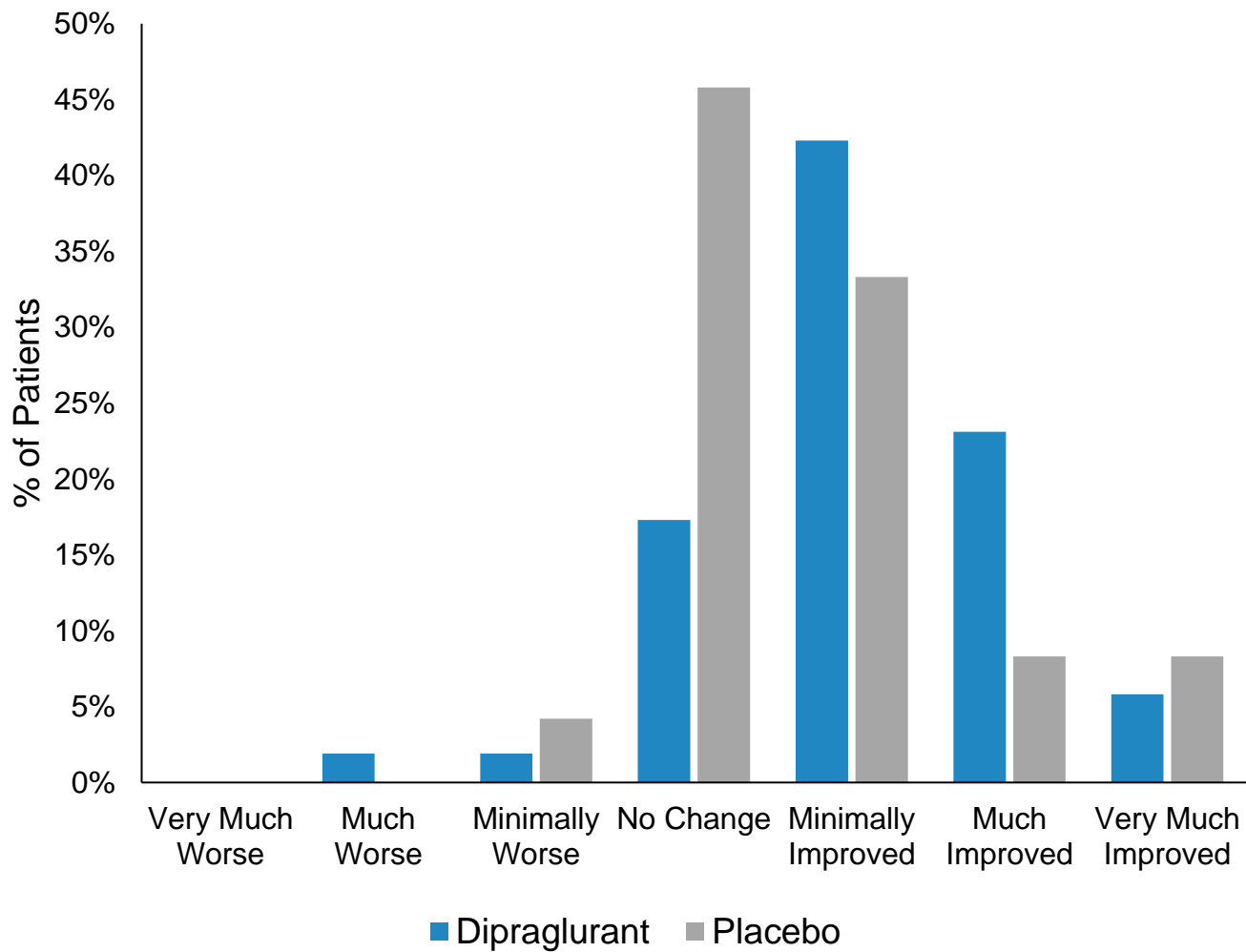


Responder analysis ($\geq 30\%$ change of mAIMS from baseline)				
Midday dose	Dipraglurant		Placebo	
Day 1 (50 mg)	n=13	26.0%	n=3	12.5%
Day 14 (100 mg)	n=29	56.9%*	n=6	25.0%
Day 28 (100 mg)	n=27	55.1%*	n=7	29.2%

*statistically significant

Reinforces robustness of dipraglurant anti-dyskinetic effect

Significant Improvement on CGI-C



	Dipraglurant	Placebo
Improved (p<0.05)	71.2%	49.9%
No change	17.3%	45.8%

- Simple scale reflecting clinical assessment by treating physician
- More objective than mAIMS
- Assessed at end of study compared to baseline
- Supports use of UDysRS in pivotal program

Dipraglurant Demonstrated Good Safety and Tolerability in PD Patients

- Adverse events common in both treatment groups (dipraglurant 88.5%, placebo 75%)
- Most common AEs:

	Dipraglurant	Placebo
Worsening Dyskinesia	21% (15.3%*)	12.5%
Dizziness	19%	12.5%
Nausea	19%	0%
Fatigue	15%	4%

* 3 of 11 AEs of “worsening dyskinesia” occurred in the follow up period (i.e., after drug discontinuation). On treatment incidence = 15.3% dipraglurant, 12.5% placebo

- AEs led to discontinuation in 2 patients (dipraglurant 100 mg)
- Fewer AEs at 50 mg (Weeks 1 and 2) 53% vs 58% placebo compared to 100 mg (Weeks 3 and 4) 73% vs 63% placebo
- No treatment effects on ECG, HR, BP, haematology and biochemistry

Safety profile supports continued development in PD-LID (KOLs and DSMB)

Dipraglurant PD-LID – Status of Development

- Pivotal registration program
 - Study 301 & 12-month Open Label Study (302) terminated in June 2022 due to slow recruitment rate attributed to COVID related constraints
- Future development under evaluation, including:
 - PD-LID
 - Substance use disorder
 - Neurodevelopment disorders
 - Pain
 - Post-stroke / TBI recovery

Other Preclinical Programs:

GABAB PAM for Substance Use Disorders (Indivior Partnership) & Chronic Cough

mGlu7NAM Stress related disorders & Schizophrenia

GABAB PAM for Substance Use Disorder

Large market & unmet medical need	<ul style="list-style-type: none">• High prevalence; 1.8% of US population*• Current treatments have undesirable side-effects and prone to relapse• Burden to society in US is >\$600B annually**
Clinically validated MoA	<ul style="list-style-type: none">• Baclofen (GABAB agonist) used off label for alcohol use disorder• ADX71441 attenuates alcohol self-administration and relapse to alcohol seeking in rats*** and alcohol consumption in mice****• ADX71441 reduces cocaine self-administration in NHP*****
Status of program and near-term milestone	<ul style="list-style-type: none">• Addex is executing Indivior funded GABAB PAM research program• Multiple compounds in late clinical candidate selection phase• Differentiated leads and backups with robust novel IP potential• IND enabling studies expected to start in 2023
Strategic partnership with Indivior	<ul style="list-style-type: none">• Eligible to receive \$330 million in milestones and tiered royalties from high single digits to low double digits• Conducting a funded research program to discover novel GABAB PAMs<ul style="list-style-type: none">– Right to select compounds for development in reserved indications

GABAB PAM for Chronic Cough

Large market & unmet medical need

- Widespread prevalence
 - Up to 10% of adult population worldwide*
 - More prevalent (10-20%) in Europe, America and Australia than in Asia (5%)*
- Opioid drugs (codeine) offer suboptimal relief and are linked to undesirable side effects, including abuse potential

Clinically validated MoA

- Baclofen (GABAB agonist) reduced chronic cough in multiple clinical studies
- Baclofen is used off-label as a treatment of chronic cough
- Baclofen showed efficacy in animal models of chronic cough**

Status of development

- Multiple compounds in late clinical candidate selection phase
- Potential for safer and better tolerated therapeutic approach to baclofen

Intellectual property & near-term milestone

- Differentiated leads and backups with good IP potential
 - Independent IP from Indivior collaboration
- IND enabling studies expected to start in 2023

mGlu7 NAM for Stress Related Disorders (including PTSD) and Schizophrenia

Large market & unmet medical need

- PTSD affects approximately 3.5% of U.S. adults
- Current treatments are primarily based on psychotherapy, medication is nonspecific (off-label use of anxiolytics and antidepressants) and usually ineffective, often with numerous side effects

Novel first in class MoA

- Potential shown in mGlu7 KO mice phenotype and mGlu7 inhibition studies
- Preclinical POC demonstrated with Addex mGlu7 NAM:
 - Fear conditioning model of PTSD in rats
 - Elevated plus maze and marble burying test of anxiety in mice
 - Amphetamine-induced hyperactivity test of psychosis in mice

Status of development

- Drug candidate PK/PD established and pre-IND studies completed
- Potential breakthrough therapeutic innovation for the treatment of stress related disorders like PTSD

Intellectual property & near-term milestone

- Differentiated leads and backups with good IP potential
- IND enabling studies expected to start in H1 2023

Addex Financials, Stock and Milestones

Financials and Stock

- Cash at 1 December 2022: CHF7.0 million (\$7.6 million)
- No debt
- Traded on SIX Swiss Exchange: ADXN (ISIN:CH0029850754)
- ADS representing 6 shares traded on Nasdaq: ADXN (ISIN: US00654J107; CUSIP: 00654J107)
- 72.78M outstanding shares*
 - Armistice Capital LLC – 31.00%
 - New Enterprise Associates – 10.30%
 - New Leaf Venture Partners – 3.56%
- 115.34M registered shares incl. treasury shares (150.48M fully diluted)
 - Management & board holds – 18.67% (fully diluted basis)
- Analyst coverage:
 - HC Wainwright - Raghuram Selvaraju
 - valuationLab - Bob Pooler
 - Baader Helvea AG - Leonildo Delgado
 - ZKB - Laurent Flamme

Milestones

Milestone	Timing
ADX71149 for epilepsy	
Phase 2a – study started	June 2021
Phase 2a – completion of part 1 results	end of Q1 2023
GABA _B PAM for substance use disorders	
Start IND enabling studies	2023
mGlu7 NAM for stress-related disorders – PTSD	
Start IND enabling studies	H1 2023
Dipraglurant new indication selection & start of Phase 2	2023
Partnership for a preclinical program	H1 2023

Summary

Multiple high value programs reaching significant milestones

- Phase 2 epilepsy study (J&J) – completion of part 1 end of Q1 2023
- Dipraglurant Phase 2 ready with interest in multiple indications
- GABAB PAM for substance use disorder (Indivior) and other indications
- mGlu7 NAM for stress related disorders (PTSD) and schizophrenia

Technology and capabilities to deliver

- Pioneering allosteric modulation drug development
 - Proprietary screening assays and unique chemical library
- All programs developed in-house, protected with >200 patents

Solid foundation

- Partnerships with industry leaders – JnJ & Indivior
- Top tier US investors – Armistice Capital, NEA and NLV
- Dual listed SIX Swiss exchange & US Nasdaq

Promising outlook

- Rich news flow in 2023 and beyond
 - Clinical results expected end Q1 2023
 - Multiple drug candidates in CCS



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