

Innovative Treatments for Central Nervous System Disorders

August 2021

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Addex Overview

3 clinical programs	 Dipraglurant PD-LID study 301 started in June 2021 Dipraglurant blepharospasm Phase 2 study starting Q3 2021 ADX71149 (J&J) epilepsy Phase 2 study started in June 2021
Leading allosteric modulator technology platform	 Allosteric modulation is a validated & differentiated pharmacological approach to address drug targets Proprietary biological screening assays and chemical library
In house discovered pipeline	 Multiple novel drug candidates entering clinical candidate selection Driving long term growth & future partnership opportunities
Partnerships	 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 Cash of CHF18.1M at 30 June 2021



Addex Pipeline

Molecule / MoA	Indication	Partner	Pre-clinical	Phase 1	Phase 2	Phase 3	Milestone
Dipraglurant	PD-LID						Data Q4 2022
(mGlu5 NAM)	Blepharospasm				•		Data Q4 2021
ADX71149 (mGlu2 PAM)	Epilepsy	Janssen PRANTACETICAL COMMITTES OF Softmen affolismen					Data Q3 2022
GABA _B PAM	Addiction	INDIVIOR					
GADA _B FAIVI	CMT1A						
mGlu7 NAM	PTSD	© * eurostars™					
mGlu2 NAM	Mild neurocognitive disorders						
mGlu4 PAM	Parkinson's disease						
mGlu3 PAM	Neurodegenerative disorders						

Lead Program Started US Pivotal Study



Experienced Team

Leadership Team

Tim Dyer CEO / CFO

Co-Founder of Addex Formerly with PwC UK Chartered Accountant Dr Roger Mills Chief Medical Officer

Developed Nuplazid for PD Psychosis >30 years Pharma industry incl. Pfizer, Gilead and Acadia Dr Robert Lutjens Head of Discovery Biology

Member of Addex founding team
Formerly with Glaxo & Scrip

Formerly with Glaxo & Scripps Research Institute

Dr Jean-Philippe Rocher Head of Discovery Chemistry

Member of Addex founding team Formerly with Pierre Fabre, GSK and Mitsubishi Dr Mikhail Kalinichev Head of Translational Science

Neuropharmacologist with >20 years experience Formerly with Ipsen, Lundbeck and GlaxoSmithKline

Non-executive Directors

Vincent Lawton
Chairman

Former European Head of Merck & Co. Former MHRA Board member

Ray Hill Board member

Former Executive Director Merck & Co.

Jake Nunn
Board member

Venture advisor and former Partner at New Enterprise Associates Isaac Manke Board member

General Partner at Acorn Bioventures. Formerly Partner at New Leaf Venture Partners

Scientific Advisory Board

Darryle Schoepp Chairman of SAB

Former leader of Neuroscience research department at Eli Lilly, and at Merck was Neuroscience research therapeutic area leader Mark Bear

Picower Prof. of Neuroscience at MIT

Formerly on faculty of Brown University School of Medicine and an Investigator of the Howard Hughes Medical Institute Peter Bernstein Principal, PhaRmaB LLC

Formerly with ICI Astra Zeneca Awarded numerous accolades including Fellow of the American Chemical Society Benny Bettler

Biomedicine Prof. at Basel University

Formerly at Novartis and discovered allosteric modulators at GABA_B receptor and recipient of the Peter Speiser Award



Dipraglurant for Levodopa-Induced Dyskinesia in Parkinson's Disease (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
 - 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 (mavoglurant) data supportive of mGlu5 target & rationale for dipraglurant PK profile

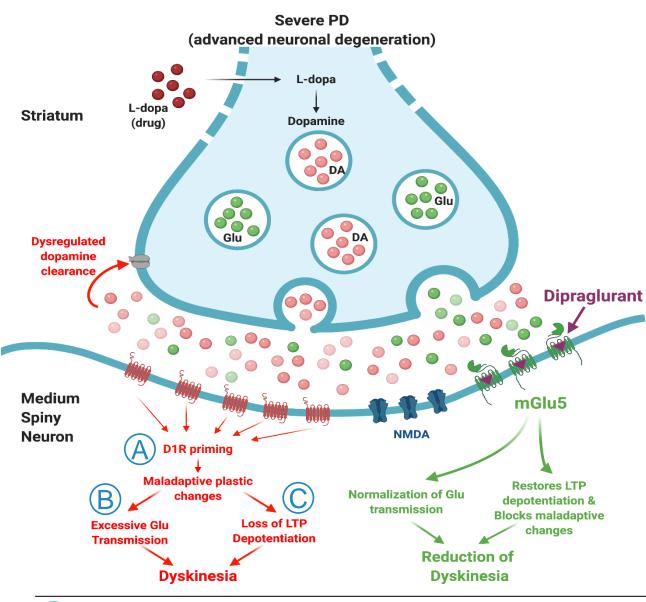


Disability and Impact of PD-LID

Invariably associated with	 Dyskinesias caused by neurodegeneration
	 Dopamine replacement lowers the triggering threshold for symptoms
long-term L-dopa use	 LID can become as disabling as the PD symptoms themselves
	 Uncontrollable muscle contractions, twisting and writhing
Symptome include dystonia	 Painful and severely disabling
Symptoms include dystonia, chorea, and choreoathetosis	 Causes fatigue/exhaustion and increased risk for falls and injuries
	 Social withdrawal, reduced quality of life and increased burden on caregiver
	 >40% of patients experience LID within 4-6 years of L-dopa treatment
Prevalence related to disease	 Increases to 90% after 9 -15 years
duration	 Patients treated with next-generation L-dopa will still experience LID
PD drug efficacy wanes over	T ((1
time - exacerbated by	Treatment becomes a balancing act requiring constant adjustments to ensure symptom control & minimize intolerable side effects
emergence of LID	



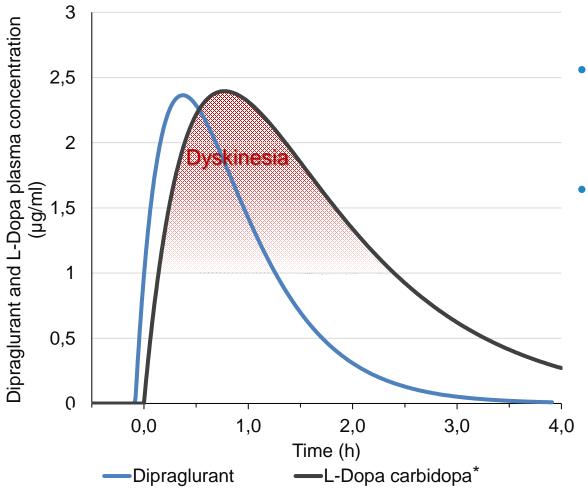
MoA Rationale for Targeting mGlu5 Inhibition in PD-LID



- 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



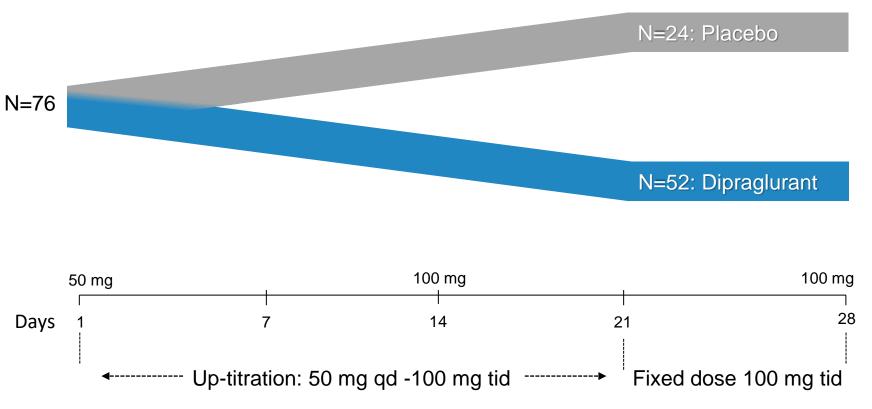
- Dyskinesia symptoms are correlated to peak levels of L-dopa
- PK of dipraglurant allows control of glutamatergic tone ahead of L-dopa Cmax

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)

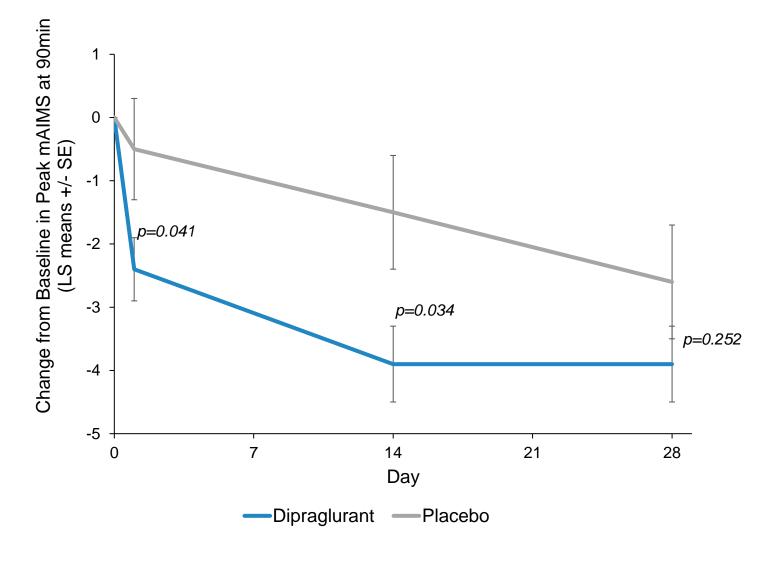


- Primary objective: safety & tolerability
- Secondary objective: exploratory efficacy:
 - Modified Abnormal
 Involuntary Movement Scale
 (mAIMS) on days 1, 14
 and 28
 - Clinician Global Impression of Change (CGIC)
 - Patient diaries of "On" & "Off" time

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



Dipraglurant Improves LID by 30%



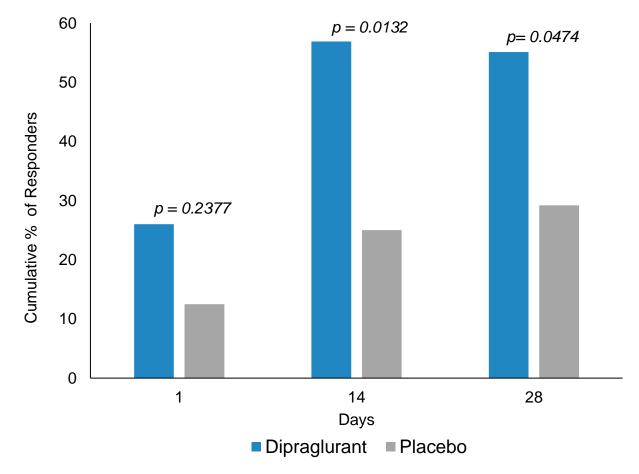
- Statistically significant effects:
 Day 1 (50mg) and Day 14 (100mg)
- Improvement maintained through Day 28
- Increasing placebo response caused significance to be lost at Day 28
- No placebo mitigation in study

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 ≥ 30% improvement on mAIMS



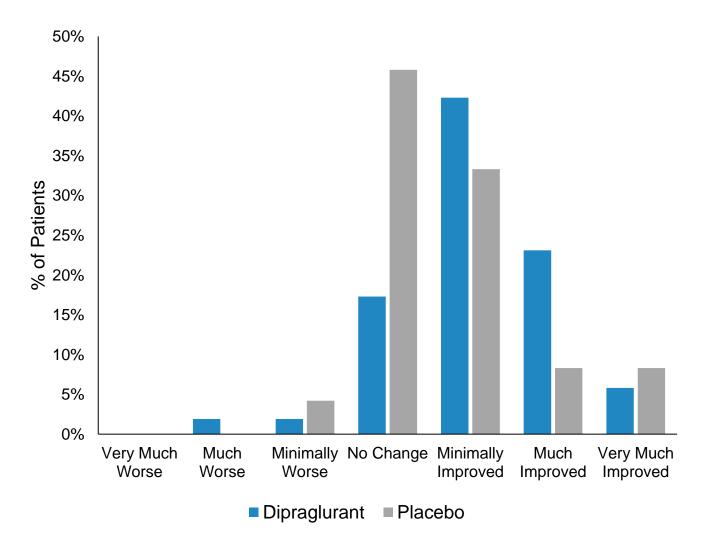
Responder analysis (≥30% change of mAIMS from baseline)				
Midday dose	Dipraglurant Placebo			acebo
Day 1 (50 mg)	n=13	26.0%	n=3	12.5%
Day 14 (100 mg)	n=29	56.9%*	n=6	25.0%
Day 28 (100 mg)	n=27	55.1%*	n=7	29.2%

*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)

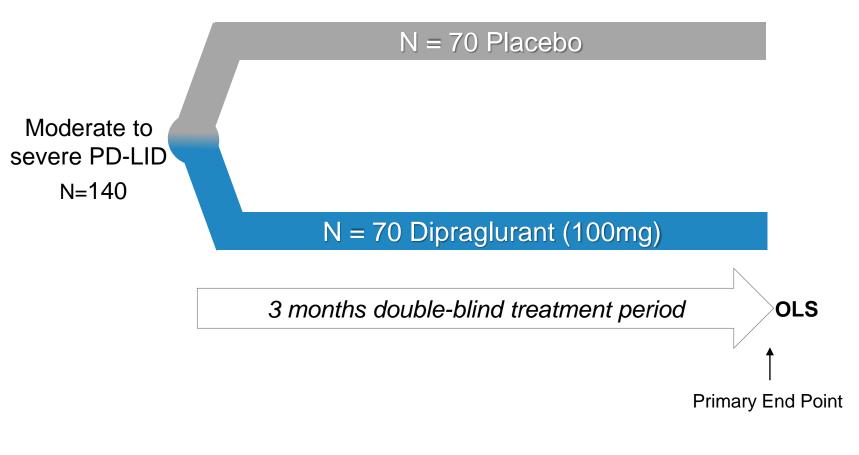


Dipraglurant PD-LID Registration Program Started

- Pivotal registration program ongoing
- Study 301 started in June 2021
 - Data read-out expected Q4 2022
 - Primary endpoint: UDysRS
 - Placebo mitigation is a priority
- 12-month Open Label Study (302) starting in parallel to study 301
 - 6- and 12-month safety data
- Second pivotal registration study (303) to follow study 301 completion



Dipraglurant First Pivotal PD-LID Study (301)



- Primary objective: Efficacy in reducing LID
 - UDysRS change from baseline at 3 months
- Secondary objectives
 - CGI-S
 - MDS-UPDRS Part III change from baseline
 - Patient diaries, on & off time
 - Safety and tolerability



UDysRS: An Improved and Validated Dyskinesia Rating Scale

	UDysRS	mAIMS
	 Recommended by Movement Disorder Society (MDS) 	 Suboptimal for detecting treatment-related changes
	 FDA regulatory precedent (GOCOVRI® approval) 	 Limited to patient assessments
Characteristics	 Contains anchored objective clinician evaluated measures of dyskinesia 	Prone to placebo effect
	 Includes both patient and physician assessments of impairment 	
	 Less prone to placebo effect 	
Clinimetrics	 Validated 	 Only the original version has been validated
Development	Developed in 2009 specifically for dyskinesia in PD	Developed in 1970 for tardive dyskinesia in psychiatry



Dipraglurant PD-LID Studies – Management of Placebo Response

- Use of UDysRS
 - More sensitive to changes in LID
 - Less prone to placebo response
- Raters will be qualified by the MDS
 - Expert rater review to further ensure quality
- Requirement for moderate to severe symptom scores at screening and baseline
- BPST-Dys (non-pharmacologic intervention) to be used during screening
- Longer 12-week treatment period expected to mitigate placebo response



Dipraglurant for Dystonia – Blepharospasm



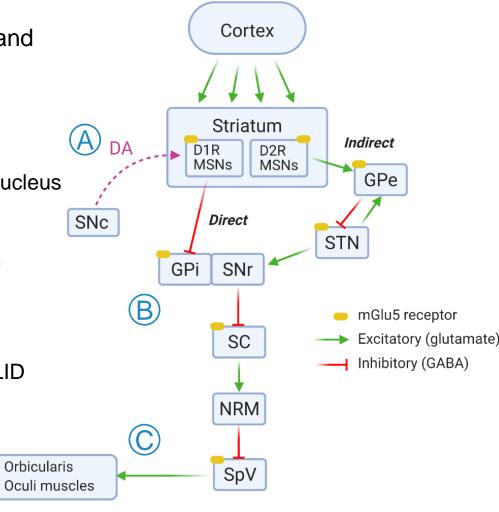
Blepharospasm (BSP)

- Type of dystonia affecting eyelid muscles
 - Results in sustained eyelid closure causing substantial visual disturbance or functional blindness
 - ->50% of BSP patients symptoms spread to other cranio-facial muscles
- At least 50,000 BSP patients in US, ~2000 new patients diagnosed annually
- Botulinum toxin (BoNT) injections are the only approved treatment
- Surgical approaches including myectomy are invasive and frequently not of benefit
- Phase 2 feasibility study in BSP with dipraglurant IR expected to start in Q3 2021 and read out data by the end of 2021
- Dipraglurant extended release (ER) formulation being developed
- Phase 2a proof of concept with dipraglurant ER planned for 2022
- Potential to expand to other dystonias



Rationale for Targeting mGlu5 Inhibition in Dystonia & BSP

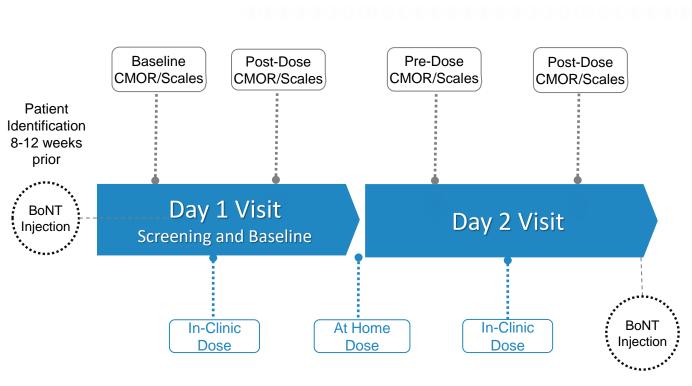
- Dystonias are neuro-functional rather than neuro-degenerative
- Common features include alterations in neuronal connectivity/function and synaptic communication
- BSP pathophysiology is linked to:
 - A Reduction of dopamine input into striatum
 - B Increased inhibition of direct pathway from superior colliculus to trigeminal nucleus
 - Overexcitation of the signal leading to blink reflex
- Pathogenesis involves aberrant or maladaptive brain plasticity linked to excessive sensory stimulation and/or repetitive motor tasks
- Dipraglurant shows robust preclinical validation:
 - Dose-dependent reduction of dystonia in MPTP-lesioned NHP model of PD-LID
 - Effective in tottering mouse model of generalized dystonia
 - Reverses synaptic plasticity alterations observed in two distinct genetic models of dystonia (DYT1 mice & DYT25 rats)
- Dipraglurant has shown anti-dystonic effect in PD patients



Adapted from Peterson & Sjenowski , 2017



Blepharospasm Phase 2 Feasibility Study Design



- Patients with benign essential BSP, who experience moderate/severe symptoms prior to their regular dose of BoNT
- Single center, randomized, double-blind, placebo controlled
- Approx. 15 patients
- Dipraglurant IR 50mg, 100 mg and placebo
- Efficacy endpoints include:
 - Computational Motor Objective Rater (CMOR)
 - Clinician rating scales
 - Patient reported outcomes



ADX71149 (JNJ-40411813) for Epilepsy Partnered with Janssen Pharmaceuticals, Inc.



ADX71149 Opportunity in Epilepsy

	 Market projected to reach \$20 billion by 2026*
Large market & unmet	– Keppra market leader with approx. 2.2M patients & >€800M p.a.**
medical need	 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
ADV71140, true	 Selective oral mGlu2 PAM with clear MoA in epilepsy
ADX71149: true	 Showed 35-fold increase in Keppra efficacy in preclinical model
synergistic MoA	 Potential first rational polypharmacy in epilepsy
	 Extensive preclinical and clinical data
Dovolopment noth	– 8 Phase 1 and 2 Phase 2 studies
Development path	 Janssen Pharmaceuticals, Inc. started POC study in June 2021
	 Top line data expected in Q3 2022
Strategic Partner Janssen Pharmaceuticals, Inc.	 Eligible to receive €109 million in pre-launch milestones and double digit royalties



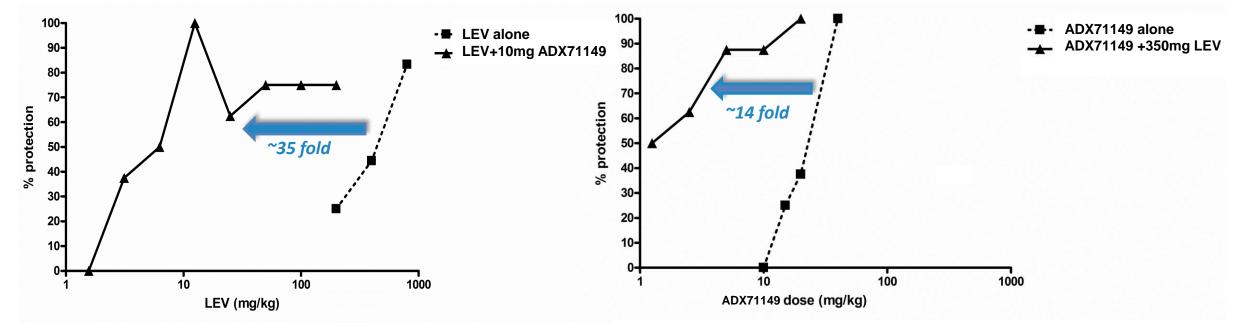
^{*} Fortune Business Insights April 8, 2020 **UCB H1 2020 *** Xue-Ping et al, Medicine July 2019

ADX71149 Preclinical Efficacy in Epilepsy - 6Hz Model

Preclinical validation in pharmaco-resistant mouse epilepsy model:

 ED_{50} shift of Keppra by adding low dose of ADX71149

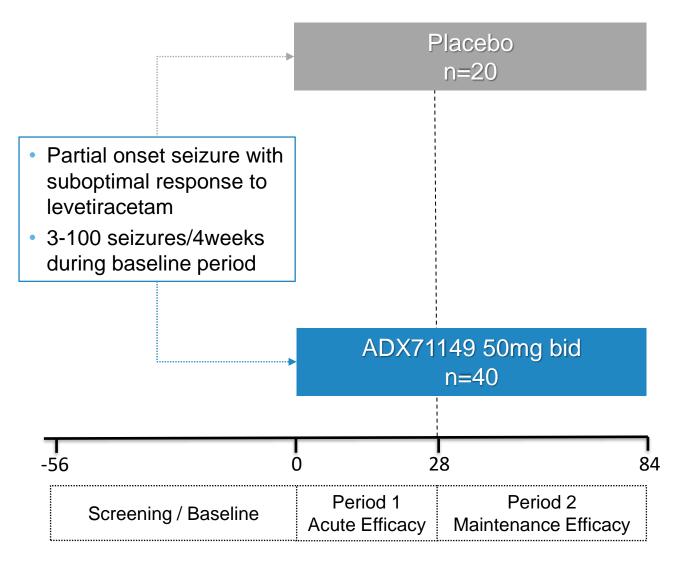
ED₅₀ shift of ADX71149 by adding ED₅₀ dose of LEV



- 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



ADX 71149 Phase 2a Epilepsy Study Design



- 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 Period 1 continue double-blind treatment during Period 2
- First patient enrolled in June 2021



Financials



Financials and Stock

- Cash runway through 2022
 - Cash at 30 June 2021: CHF18.1 million
- No debt
- Traded on SIX Swiss Exchange: ADXN (ISIN:CH0029850754)
- ADS representing 6 shares traded on Nasdaq: ADXN (ISIN: US00654J107; CUSIP: 00654J107)

- 34.1M outstanding shares
- 49.3M issued shares incl. treasury shares (62.3M fully diluted)
 - New Enterprise Associated 14.21%
 - New Leaf Venture Partners 4.86%
 - CAM Capital 3.24%
 - Credit Suisse Asset Management 2.54%
 - Management & board holds -12.05% (fully diluted basis)
- Analyst coverage:
 - HC Wainwright Raghuram Selvaraju
 - Van Leeuwenhoek Marcel Wijma
 - valuationLab Bob Pooler
 - ZKB Dr. Michael Nawrath
 - Baader Helvea AG Bruno Bulic



Milestones

Milestone	Timing
Dipraglurant for PDLID	
Phase 2b/3 – study started	June 2021
Phase 2b/3 - topline results	Q4 2022
Dipraglurant for Blepharospasm	
Phase 2a - start study	Q3 2021
Phase 2a - topline results	Q4 2021
ADX71149 for Epilepsy	
Phase 2a – study started	June 2021
Phase 2a - topline results	Q3 2022
GABA _B PAM for Addiction and CMT1a	
Complete clinical candidate selection	Q4 2021
Start IND enabling studies	Q2 2022



Summary

3 clinical programs – data reading out from Q4 2021	 Dipraglurant PD-LID registration study – started June 2021 Dipraglurant blepharospasm Phase 2 – start Q3 2021 ADX71149 (J&J) epilepsy Phase 2 – started June 2021
Technology and capabilities to deliver	 Experienced team of drug developers 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 Top tier US investors - NEA, NLV and CAM Capital Program Dual listed SIX Swiss exchange & US Nasdaq
Promising outlook	 Rich news flow in 2021 and beyond Clinical data reading out Q4 2021, Q3 2022 and Q4 2022 Multiple drug candidates in CCS





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