Addex Corporate Presentation

September 2018

Innovative Treatments for Central Nervous System Disorders

SIX: ADXN



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Addex at a Glance

Swiss Company SIX Listed

- Founded in 2002 & headquartered in Geneva
- Traded on the SIX Swiss Stock Exchange since 2007 – ADXN
- > 28.6M shares and market cap of CHF90M
- Cash of CHF45m at 31 March 2018
- Runway through 2021

Dipraglurant for Parkinson's Disease

- > FDA Orphan Drug Designation granted in PD-LID
- Positive Phase 2 in PD-LID
- Registration trials scheduled to start end of 2018
- Focal cervical dystonia Phase 2 POC start dosing H2 2018

Addex Pipeline and Technology Platform

- Validated differentiated pharmacological approach
- Proprietary biological screening assays and chemical library
- Partnership with Indivior PLC on GABAB PAM
- Partnership with Janssen on mGluR2 PAM



Experienced Team

- Executive Management:
 - Tim Dyer, CEO / CFO
 - Co-founder of Addex, formerly with PwC
 - Roger Mills, CMO
 - Formerly with Acadia Pharmaceuticals
 - Robert Lutjens, Head of Biology
 - Formerly with Glaxo, The Scripps Res Inst.
 - Jean-Philippe Rocher, Head of Chemistry
 - Formerly with Pierre Fabre, GSK, Mitsubishi
- Team of Experts:
 - Hilde Williams
 - Regulatory Affairs, Former SVP Regulatory Acadia Pharmaceuticals
 - Ron Lawrence
 - CMC; Formerly with GSK
 - Tim Hammond
 - Toxicology; Former VP AstraZeneca

- Clinical Advisors:
 - PD-LID
 - Michael J. Fox Foundation for Parkinson's Research
 - Dr. Erwan Bézard
 - Prof. Chris Goetz
 - Prof. Stuart Isaacson
 - Dystonia
 - Dystonia Medical Research Foundation
 - Prof Hyder Jinnah
 - Prof Antonio Pisani
 - Dr. Jan Teller
- Board Members:
 - Vincent Lawton, Chairman
 - Former European Head of Merck & Co., MHRA
 - Ray Hill
 - Former Executive Director at Merck & Co.
 - Jake Nunn, New Enterprise Associates
 - Isaac Manke, New Leaf Venture Partners



Clinical Stage Pipeline with Registration Trial-Ready Program Multiple Orphan Drug Opportunities

Molecule / MoA	Preclinical	Phase 1	Phase 2	Phase 3 Pivotal
Dipraglurant-IR (mGluR5 NAM)	Parkinson's disease levo	dopa-induced dyskine	sia	
Dipraglurant-ER (mGluR5 NAM)	Focal cervical dystonia			
ADX71149 (mGluR2 PAM)	Epilepsy			Janssen PHARMACUTCAL COMPANIES OF Colonical Companies
ADX71441 (GABAB PAM)	Addiction			INDIVIOR









Extensive Preclinical Stage Pipeline for Long-Term Growth

Molecule / MoA	Hit to Lead	Lead Optimization	Clinical Candidate	Collaboration Partners
mGluR4 PAM	Parkinson's Disease			National Institute on Drug Abuse
mGluR2 NAM	Mild Cognitive Impair	ment		NEUR ITIED ISTITUTO NEUROLOGICO MEDITERRANEO
GABAB PAM	Addiction Disorders			NDIVIOR
GABAB PAM	Charcot-Marie-Tooth	1A		CHARCOT-MARIE-TOOTH ASSOCIATION CHARCOT-MARIE-TOOTH ASSOCIATION
mGluR7 NAM	Psychosomatic Disord (PTSD)	ders		National Institute on Drug Abuse
mGluR3 PAM	Neurodegen Dis			NEUR TIED I.R.C.C.S. Intuito Neurologico Mediterraneo
TrkB PAM	Neurodegen Dis			UNIVERSITÉ DE GENÈVE FACULTÉ DE MÉDECINE THE MICHAEL J. FOX FOUNDATION FOR PARKINSON'S RESEARCH



Dipraglurant in Parkinson's Disease



The Dipraglurant Story on a Page

Important Unmet Need in PD-LID

- >1M PD patients in US of which >170,000 have Levodopa-Induced-Dyskinesia (LID); 90% experience LID after 9-15 years of L-dopa exposure
- Adamas' Gocovri (reformulated generic amantadine): Approved Aug 2017
 safety profile similar to generic

Dipraglurant: Unique Mechanism of Action

- First-in-class, selective, oral small molecule negative modulator at mGluR5
- PK profile mirrors that of L-dopa, making it ideal to treat LID
- Inhibits abnormal glutamate stimulation during L-dopa dosing

Development & Regulatory Path

- Phase 2: clinically meaningful & statistically significant efficacy good safety & tolerability. Reduced "OFF time" and increased "ON time" without dyskinesia
- Precedented FDA regulatory path. Phase 3 expected to start H1:2019. NDA submission 2022

Significant Commercial Opportunity

- US LID market estimated at \$4.2B
- Dipraglurant US peak sales estimated at \$1.4B (30% market share)
- Significant recent increase in pricing of PD therapeutics Nuplazid at \$26K p.a. and Gocovri at \$28.5K p.a.

Strong IP Position

- Composition of matter through June 2025 & strong polymorph patent through 2034 without patent extensions
- US FDA orphan drug designation in PD-LID, additional patent strategies expected to provide further market exclusivity

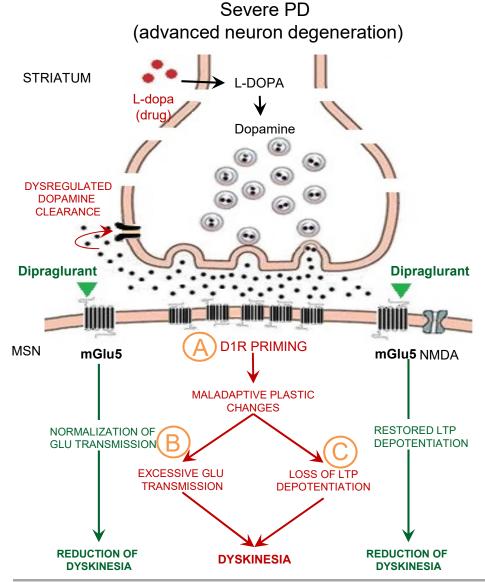


Levodopa-Induced Dyskinesia in Parkinson's Disease (PD-LID)

- Long-term L-dopa use is invariably associated with the development of dyskinesias as disabling as the PD symptoms themselves
- Prevalence of LID is related to disease duration.
 - Within 4-6 years of L-dopa treatment, LID is experienced by <u>>40% of patients</u>
 - By 9 -15 years of L-dopa treatment, LID affects 90% of PD patients
 - Next-generation L-dopa will not negate LID
- Dyskinesias result from the neurodegenerative process that underlies PD.
- Dopamine replacement does not lead to dyskinesia per se, but lowers the triggering threshold for symptoms.
- Patients with LID present with irregular migrating uncontrollable contractions or twisting and writhing due to dystonia, chorea, and choreoathetosis.
- Over time PD drugs become less effective, exacerbated by the emergence of LID, which limits tolerability of the drugs
- The constant dyskinetic movements can be painful, lead to weight loss, fatigue and exhaustion, with increased risk for falls and injuries.
- Patients are embarrassed and withdraw from social interaction leading to isolation, frustration and depression.
- This diminishes the patient's quality of life but it also significantly increases the burden on the caregiver.
- The doctor is faced with a balancing act where drug and dosing regimens must be continually optimized in order to ensure adequate symptom control while minimizing intolerable side effects.



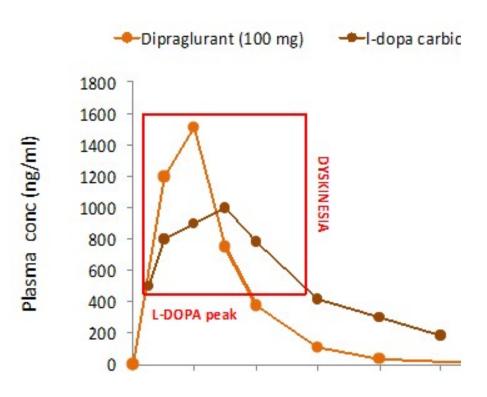
Dipraglurant - Overview & Mechanism of Action



- Loss of substantia nigra neurons combined with the non-physiological, pulsatile stimulation of dopamine receptors are at the basis of LID development
- In the striatum, LID is the result of:
- A D1 receptor priming
- (B) Abnormal glutamate transmission
- C Loss of LTP depotentiation
- Metabotropic glutamate receptors are attractive drug targets due to their modulatory action to normalize glutamatergic activity and restoration of LTP depotentiation
- mGlu5 receptors are implicated in the control of glutamate transmission
- Preclinical and clinical data show that mGluR5 blockade controls dyskinesia
- Dipraglurant is an oral small molecule active as a highly selective negative allosteric modulator at the mGlu5 receptor with the potential to treat LID



Dipraglurant PK is a Key Advantage for Treating LID

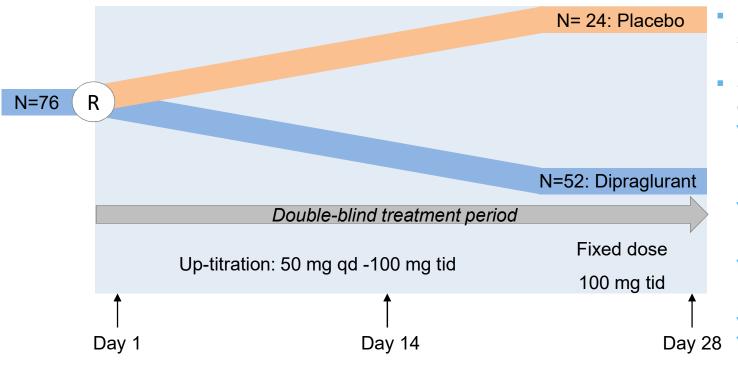


- Dyskinesia symptoms are correlated to peak levels of levodopa therapy
- PK profile of dipraglurant mirrors that of levodopa
- Dipraglurant inhibits abnormal glutamate stimulation during peak levodopa dose but releases the receptor during normal glutamate activity

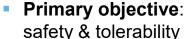
Dipraglurant PK/PD Profile is Ideal for Treating LID



Dipraglurant EU and US Phase 2a Study in LID Multicentre study in 25 centres across US and Europe



	Days	1-3	4-7	8-13	14-16	17-21	22-28
	AM			50	50	50	100
s/mg	Noon	50	50	50	100	100	100
Dose/	PM		50	50	50	100	100
	Daily	50	100	150	200	250	300

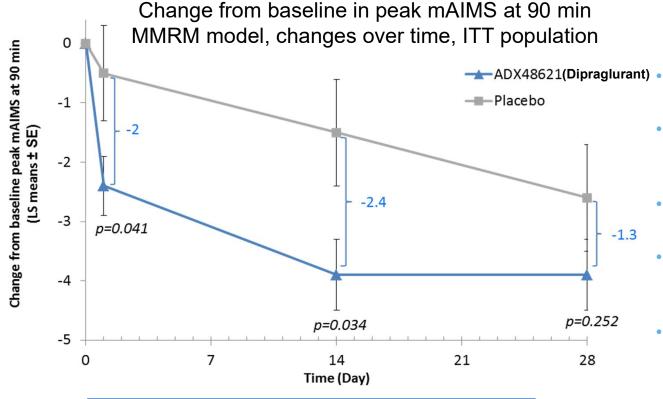


Secondary objective: exploratory efficacy:

- ✓ Modified Abnormal Involuntary Movement Scale (mAIMS) on Day 1, 14 and 28
- Unified Parkinson's Disease Rating Scale (UPDRS)
- Clinician and Patient Global Impression of Change (CGIC & PGIC)
- √ Pharmacokinetics (PK)
- Patient diaries of ON & OFF time



Dipraglurant Reduces LID Severity by 30%



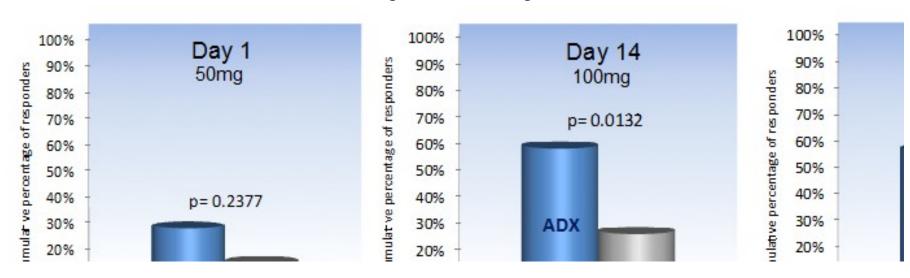
Mean % change of peak mAIMS from baseline				
Midday dose Dipraglurant Placebo				
Day 1 (50 mg)	19.9%	4.1%		
Day 14 (100 mg)	32.3%	12.6%		
Day 28 (100 mg)	31.4%	21.5%		

- Dipraglurant had a statistically significant effect on the first day
- Dipraglurant reduced dyskinesia compared to placebo at all visits over the 28 days
- Placebo response confounded significance at day 28
- Dose titration contributed to placebo response (patients only on full dosage for last 7 days)
- No placebo-mitigating techniques deployed in study:
 - No centralized raters
 - No independent raters
 - Rater not blinded to visit number
 - Patients were more moderate than severe



Responder Analysis Demonstrates Dipraglurant Significant Benefit

Cumulative % of Patients Showing ≥ 30% Change of Peak mAIMS from Baseline



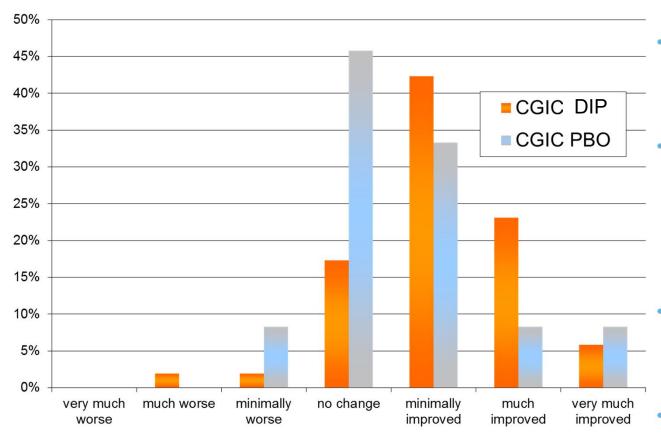
Responder analysis (≥30% change of peak mAIMS from baseline)						
Midday dose Dipraglurant Placebo p-value						
Day 1 (50 mg)	n=13	26.0%	n=3	12.5%	0.2377	
Day 14 (100 mg)	n=29	56.9%	n=6	25.0%	0.0132	
Day 28 (100 mg)	n=27	55.3%	n=7	29.2%	0.0474	

- A 30% reduction in mAIMS is clinically meaningful
 - One patient was able to hold & read a newspaper for the first time in years
 - Another patient had improved speech and became more easily intelligible

Responder analysis reinforces robustness of dipraglurant anti-dyskinetic effect



Clinician Rated Global Impression of Change - Dyskinesia

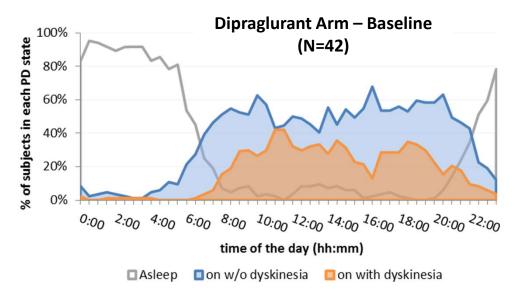


	Dipraglurant	Placebo
Improved (p<0.05)	71.2%	49.9%
No change	17.3%	45.8%

- Relatively simple scale that reflects everyday clinical practice
 - Assessment by treating physician and thus is a more objective assessment than the more subjective mAIMS
 - Assessment performed at end of study compared to baseline
- Greater improvement in dyskinesia with dipraglurant according to clinicians (p<0.05)

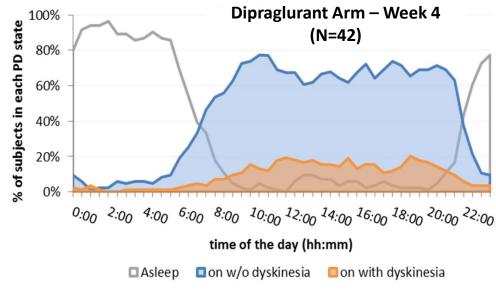


Patient Diaries – Improvement Throughout the Waking Day



After 4-week treatment with dipraglurant:

- ON time <u>with dyskinesia</u> reduced during the day
- ON time <u>without dyskinesia</u>
 increased and maintained during the day





Dipraglurant 50 and 100 mg Doses Demonstrated Safety and Satisfactory Tolerability in PD Patients

- Adverse events were common in both treatment groups (dipraglurant 88.5%, pbo 75%)
- The majority of patients completed the dose escalation regimen
- Most common AEs:

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

- *3 of the 11 patients who reported "worsening dyskinesia" did so only in the follow up period (i.e. when not taking the drug). Thus the dyskinesia recurred only after therapy had stopped. Therefore the adjusted AE% is 15.3% for dipraglurant arm vs.12.5% for placebo arm.
- AEs caused discontinuation in 2 patients taking dipraglurant 100 mg
- AEs at the 50 mg dose level (wk 1 and 2) were less frequent 53% vs 58% pbo than at the 100 mg dose level (wk 3 and 4) 73% vs 63% pbo
- No treatment effects on any safety monitoring variables (ECG, HR, BP, haematology and biochemistry)

Safety profile suitable for continued development in PD (KOLs and DSMB)



Summary of Efficacy Data

- Dipraglurant showed a clinical meaningful improvement of dyskinesia
 - Significant improvement of mAIMS on Days 1 and 14
 - Trial design exacerbated placebo response confounding significance at Day 28
 - Responder analysis (≥30% improvement) demonstrates clinically meaningful and statistically significant benefit on Days 14 and 28
 - Investigator assessed CGIC shows dipraglurant significantly improved dyskinesia over placebo during the study (p<0.05)
- Did not impair motor function (UPDRS) important consideration for FDA
- Dipraglurant effects in patient-reported outcomes:
 - 50-minute reduction in "OFF time" by week 4
 - 2.3 hours more "ON time" without dyskinesia by week 4



Clinical Development Plan

Pivotal trials:

- Two studies required for registration
 - Primary endpoint: UDysRS more sensitive to treatment effect than mAIMS and less prone to placebo response (Goetz 2013)
 - Pivotal Study 1 (301) 13 weeks data H1 2020
 - Pivotal Study 2 (302) 26 weeks (primary endpoint at 13 weeks) data H2 2021
- Open label extension: 100 patients exposed for 1 year

Toxicology:

- 6 and 9 month toxicology
- 3 month combination toxicology study in one species before large studies start

Regulatory:

- Continue to interact with regulatory bodies in 2018
- Consider fast-track / breakthrough applications after first pivotal study
- NDA submission projected for mid 2022



Management of Placebo Response

Objective	Strategy
 Minimize rater variability (across and within sites) 	Use independent (centralized) raters
 Reduce expectancy bias 	 Raters blinded to visit and do not rate the same patient at baseline and study endpoint
 Exclude patients with minimal symptoms (as more likely to respond to placebo) 	 Ensure that symptom score reflects moderate to severe symptoms that warrant therapy Ensure occur frequently enough for scale sensitivity
 Exclude potential investigator rating inflation 	 Independent oversight of screening and use of centralized rater baseline visit score as study entry gate
 Draw placebo response ahead of randomization 	 Consider non-pharmacologic intervention during screening period
 Ensure no geographic bias 	 Only include countries / sites where centralized rating is feasible



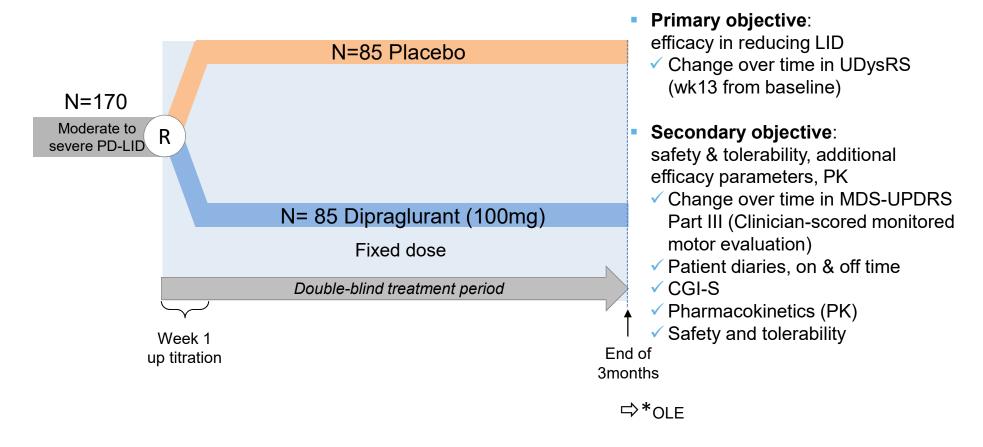
Dyskinesia Rating Scales: UDysRS verses mAIMS

	UDysRS	mAIMS
Characteristics	 Recommended scale by Movement Disorder Society FDA regulatory NDA precedent (Adamas - Gocovri) Contains anchored objective clinician evaluated measures of dyskinesia UDysRS has both patient-based perceptions of disability and physician assessments of impairment and disability embedded in the single scale Less prone to placebo effect 	 mAIMS alone was identified as suboptimal in detecting treatment-related changes mAIMS patient driven More prone to placebo effect
Clinimetric properties	• Validated	 Only the original version has been validated
History	 Developed in 2009 specifically for dyskinesia in PD patients 	 Developed in 1970 to assess tardive dyskinesia in psychiatric patients

UDysRS= Unified Dyskinesia Rating Scale



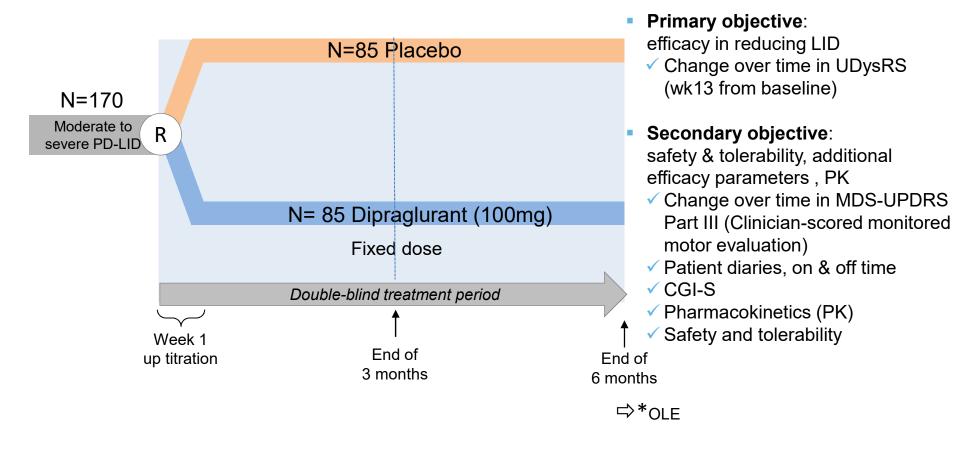
Dipraglurant 1st Pivotal LID Study (301)



N= number of patients; R= randomisation; LID= L-Dopa induced dyskinesia; OLE = open label extension



Dipraglurant 2nd Pivotal LID Study (302)



N= number of patients; R= randomisation; LID= L-Dopa induced dyskinesia; OLE = open label extension



Dipraglurant LID Opportunity

- LID has a large unmet need and market opportunity
 - > 170K LID patients in US
 - ~\$1.4bn US market opportunity for dipraglurant
- Limited competition only one FDA approved medicine
 - Gocovri (reformulation of generic amantadine): Approved on 24th August 17 safety profile similar to generic
 - Dipraglurant 1st in class highly selective oral monotherapy improved safety profile
- Development plan defined
- Precedented regulatory path paved by Gocovri (Adamas)
 - Two registration trials
 - Ideal PK profile mirrors levodopa recognized by KOLs as key advantage
- Strong patent and market exclusivity
 - NCE and polymorph patent provide protection through 2034 without extensions and data exclusivity
 - Orphan Drug Designation 7 years of market exclusivity



Preclinical Programs



Indivior Partnership on GABA_B PAM

- GABA_B is the metabotropic receptor for GABA, main inhibitory neurotransmitter
- Activation of GABA_B is validated through the use of baclofen (GABA_B orthosteric agonist)
 - Approved for the treatment of spasticity
 - Clinical efficacy in alcoholism and Charcot-Marie-Tooth type 1A (CMT1A)
- Positive Allosteric Modulator (PAM) is a differentiated pharmacological approach
 - Potential safety and efficacy advantages lack of tolerance and less side effects
- Worldwide license and collaboration on GABA_B PAM
- Indivior leading development of ADX71441 in addiction
- Addex leading funded research effort to deliver back up compounds
 - Addex has right to select back up compounds at clinical candidate stage for development in retained indications including CMT1A neuropathy
- Financial terms:
 - Upfront of USD 5 million & USD 4 million research funding over 2 years
 - USD 330 million of development, regulatory and commercial milestones
 - Tiered royalties up to double-digit royalties



Addex mGlu4 PAM Program

Overview :

- novel non-dopaminergic approach to treat Parkinson's disease with potential to treat both motor and non-motor symptoms
- Significant preclinical validation
- Raised interest in field following recent acquisition of Prexton Therapeutics by Lundbeck

Status:

- Late lead optimization IND-enabling studies planned for 2020
- Several novel chemical series with potent, selective, orally bioavailable and brain penetrant compounds
- Significant novel IP in the field



Addex TrkB PAM Program

Overview :

- TrkB is the receptor for BDNF (brain-derived neurotrophic factor)
- Preclinically validated
 - neurodegenerative diseases Alzheimer's, Parkinson's, or Huntington's disease
 - potential for both disease-modifying and symptomatic treatment
- PAM approach enabled identification of novel chemistry

Status:

- Lead generation stage
- -Supported with grants from Michael J Fox Foundation and InnoSuisse
- Collaboration with University of Geneva access to complex in vitro, ex vivo and in vivo models to probe neuroprotective and neurogenesis potential of TrkB PAMs



World Leading Allosteric Modulator Discovery Platform



Allosteric Modulation Drug Discovery Platform

Proven track record

- Pipeline of in house discovered drug candidates
 - mGluR5 NAM & mGluR2 PAM in clinical studies
 - Novel chemistry for GABAB, mGluR4, mGluR3, mGluR7 and TrKB
- Proprietary biological tools for screening and medicinal chemistry support
- Drug like allosteric biased chemical library
- Significant in house expertise

Platform & preclinical strategy

- Continue to invest in allosteric modulation expertise
- Leverage platform through collaboration with industry and non-dilutive sources of expertise and funding
- Focus on advancing preclinical portfolio to clinical candidate selection



Financials



Financials and Stock

- Cash runway through 2021
 - Proforma cash of CHF47M at 31 March 2018.
- Traded on SIX Swiss Exchange: ADXN (ISIN:CH0029850754)
- 28,564,031 shares outstanding 37.7M fully diluted)
 - New Enterprise Associated 16%
 - New Leaf Venture Partners 5.6%
 - CAM Capital 5.6%
 - Credit Suisse Asset Management 5.5%
 - Management & board holds 15% (fully diluted basis)
- Analyst coverage:
 - Van Leeuwenhoek Marcel Wijma
 - valuationLAB Bob Pooler
- Market capitalization: approx. CHF80M
- Tax losses carried forward: CHF190M
- No debt



Upcoming Development Milestones

Milestone	Timing			
Dipraglurant – LID Phase 3 Registration Program				
Study 301 – start dosing	H1 2019			
Study 301 – results	H1 2020			
Study 302 – start dosing	H2 2020			
Study 302 – results	H2 2021			
Dipraglurant – Focal Cervical Dystonia Phase 2 POC				
Study 202 – start dosing	H1 2019			
Study 202 – results	H2 2019			
ADX71441 – Addiction (Partnered with Indivior)				
Phase 1 (NIDA sponsored study) – start dosing	H1 2019			
Phase 1 (NIDA sponsored study) – results	H1 2020			



Allosteric modulators for human health

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