# ORYZON

# A GLOBAL LEADER IN EPIGENETICS

INVESTOR PRESENTATION MADX: ORY 1Q 2019

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### **Company Highlights**

- MADX: ORY A **publicly traded** company on the Spanish Stock Exchange
- Integrated in the IBEX Small Cap Index
- A clinical stage biopharmaceutical company developing innovative therapies in the field of Epigenetics
- A competitive EPIGENETIC PLATFORM validated scientifically and clinically
- Three therapeutic programs in LSD1 in development with multiple indication opportunities
- Large IP portfolio with technology fully developed in-house
- ✓ Raised €40M (in 2015-2017). Additional €13M raised from investors in the US and Europe in October 2018
- Cash runway expected till 4Q2020
- ✓ Loss/Earnings from Operations 2018: -3.3M€
- One of the MOST LIQUID companies in the MicroCap group in the Spanish Stock Market
  - 39.1 M Shares outstanding. Fully diluted
  - 350,000 daily volume (Avg Traded Volume in 2018)
  - ✓ +88M shares negotiated in 2018 / ≈5 months for share full turnover





BOLSA DE MADRID

ORYZON GENOMICS SA
BALANCE SHEET DATA (AUDITED)
(Amounts in thousands US \$)

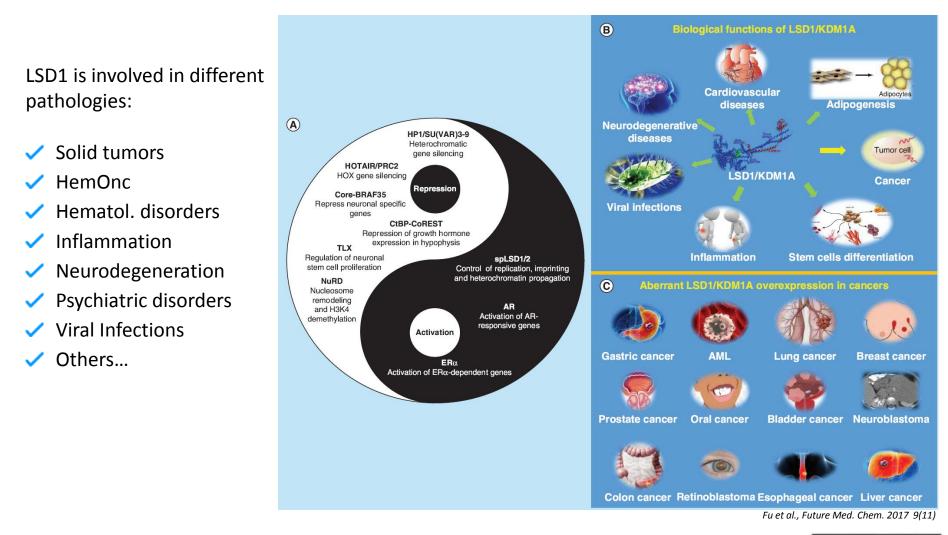
	December 31st, 2018	December 31st, 2017
Cash and cash equivalents	39.296 <sup>(1)</sup>	41.916
Marketable securities	162	256
Total Assets	77.231	73.210
Deferred revenue	0	0
Total Stockholders' equity	51.668	41.294

<sup>(1)</sup> 34,5 M€



### LSD1 in human diseases

Lysine specific histone demethylase 1 (LSD1), aka KDM1A, removes methyl marks at mono- and dimethyl-H3K4 (histone H3 lysine 4) and H3K9 (histone H3 lysine 9)





### Extensive pipeline : 2 programs in clinic with multiple indications each

		INDICATION	STUDY	RESEARCH	PRECLINICAL	PHASE I	PHASE IIA	PHASE IIB
~	A Productive							
	Epigenetic Platform	Alzheimer's disease (Mild Moderate)	ETHERAL monotherapy		1			
~	A strong focus on LSD1	Multiple Sclerosis (Relapse Remitting &	SATEEN monotherapy					
>	3 Different LSD1 inhibitors in development	Secondary Progressive) CNS Basket Trial Aggression	REIMAGINE monotherapy					
<ul> <li>Additional</li> <li>IADADEMSTAT (ORY-1001) - selective LSD1 inhibitor</li> </ul>					1			
	programs on other targets	AML (Elderly Unfit)	ALICE Combo w Aza					
		SCLC (First Line Relapsed)	CLEPSIDRA Combo w Platinum/Etoposide					
	ORY-3001 - selective LSD1 inhibitor							
		Non Oncological	Preclinical finished					
	OTHER PROGRAMS							
		Undisclosed						



### In Neurodegenerative disorders

- Historic results with HDACi's
  - HDACi improves HD symptoms in animal models
  - HDAC2 inhibition recovers memory on the AD bi-tg CK-p25 Tg mouse model
  - HDAC inhibition improves FTD
  - HDAC inhibition improves MS in EAE models
- See "The emerging field of epigenetics in neurodegeneration and neuroprotection" by Jee-Yeon Hwang, et al., Nature Reviews Neuroscience vol18, p 347–361 (2017)
- See "Epigenetic Alterations in Alzheimer's Disease" by JV. Sanchez-Mut & J. Gräff. Front Behav Neurosci. 2015; 9: 347.

### In Psychiatric disorders

- HDAC inhibition appears to play a role in major depression
- Histone methylation is also implicated in depression
- More than 40 years of clinical use of valproate in human clinics in CNS disorders: epilepsy, bipolar disorder and others
- See "Epigenetic Signaling in Psychiatric Disorders" by Peña et al., J Mol Biol.
   2014 Oct 9; 426(20): 3389–3412.



- → Identical twins (monozygotic)
- → Same DNA with GBA risk mutation
- → Discordant Parkinson's symptoms
- → Onset differs up to 20 years.
- → Patient derived iPSCs: difference in MAO-B levels





Vafidemstat (ORY-2001)

A Phase II stage clinical compound

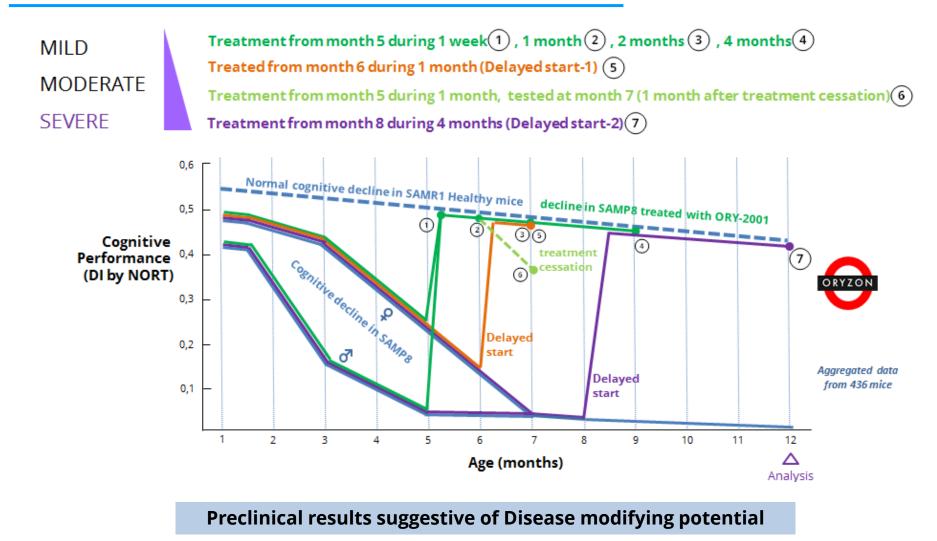


- A small molecule that selectively inhibits LSD1 and MAO-B (IC50 s of 100nM in LSD1 / 75 nM in MAOB)
- Covalent binder. Excellent Pharmacology. High oral bioavailability
- Demonstrated target engagement
- Characterized in 6 and 9 months PC regulatory toxicological studies
- Positive results in 7 different animal models and in in-vitro models
- ✓ Superior performance than other LSD1 inhibitors. Produces positive results in:
  - Cognition
  - Neuroprotection
  - Neuroinflammation
  - Social Withdrawal / Apathy
  - Aggression/Agitation
  - Others
- Biomarkers identified in animals that show promise for use in humans
- Capable of acting in all the processes that manifest in neurodegenerative disease patients
- Safe in humans in a Phase I trial with 106 healthy volunteers
- Crosses the BBB and human target engagement

In Phase IIa in three different clinical studies



### Vafidemstat (ORY-2001) restores cognition measured by NORT in SAMP8 AD model



(Similar memory restoration results observed with Vafidemstat in the R6/1 HD model. Positive effects in memory also described recently in the NMDA receptor-hypofunction mice with T-448, a selective LSD1 inhibitor from Takeda)



### Vafidemstat (ORY-2001) reduces aggression in mice Alzheimer's Disease model

In the cognition tests we noticed that SAMP8 male mice treated with vehicle aggressed cage mates while ORY-2001-treated animals did not. Later we confirmed this in proper *Resident-intruder* aggression tests.



### SAMP8 MICE treated with Vehicle Resident Intruder test

SAMP8 MICE treated with ORY-2001 0,32mg Resident Intruder test

SAMP8 animals treated with ORY-2001 are not aggressive and have normal levels of basal activity (no sedation)

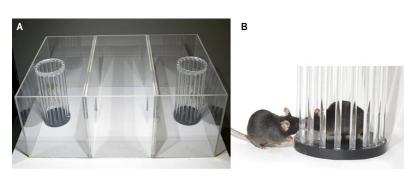


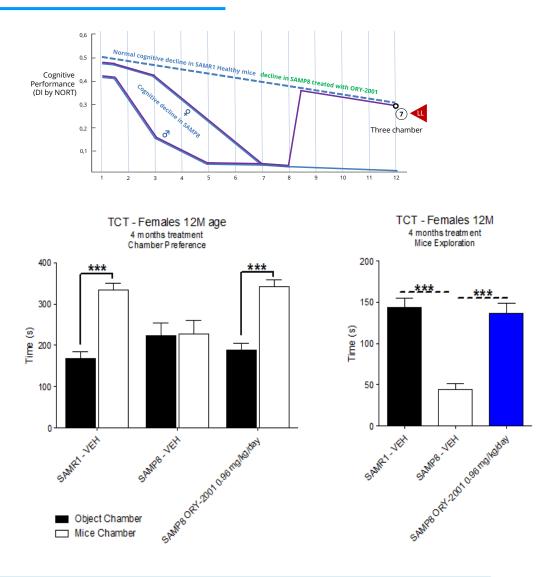


### Vafidemstat (ORY-2001) also corrects the lack of sociability of aged SAMP8 mice

In the delayed start experiment, where treatment was initiated in **8 month** old SAMP8 mice and behavior was evaluated at **12 months** of age, treatment with ORY-2001 restored not only memory but also social interaction /sociability measured on the **Three chamber test Paradigm (TCT)** 

TCT is widely used to evaluate drugs as a model for **Autism Spectrum Disorder** 





### Vafidemstat (ORY-2001) enhances sociability



### Several inflammatory biomarkers were reduced in the model

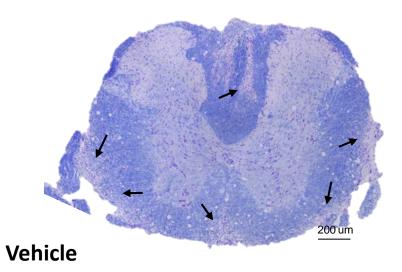
### S100A9 as a biomarker for treatment with ORY-2001

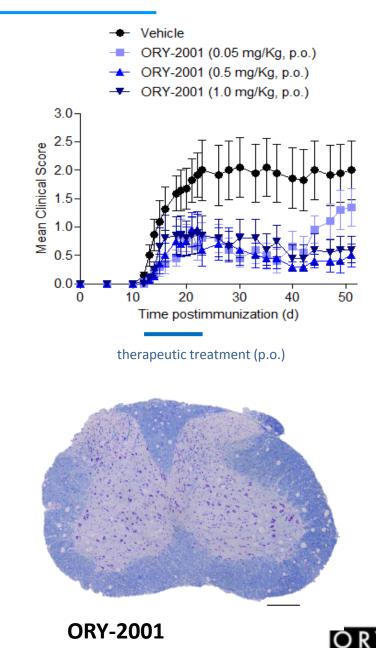
- S100A9 is an alarmin, amplifier of inflammation, innate immune system, activates TLR4
- Amyloidogenic
- Up-regulated in the hippocampus of SAMP8 mice
- Modulated by ORY-2001 treatment
- ✓ S100A9 KO or KD is beneficial in Tg2576 and APP/PS1 transgenic models for AD → functional implication
- Upregulated in the human AD brain, and may contribute to plaque formation
- Involved in neuroinflammatory processes, not limited to AD but also found in:
  - 🗸 Traumatic Brain Injury
  - Post-Operative Cognitive Decline
  - Multiple Sclerosis



### Vafidemstat (ORY-2001) is effective in the EAE and Thyler's models and reduces neuroinflammation

- In specific models of inflammation, ORY-2001 protects the brain and CNS from acute inflammatory stress, as shown in the EAE model where immune infiltration in the spinal cord is significantly reduced, demyelination is avoided and the clinical score is greatly reduced
- ORY-2001 also provides protection in other murine models with induced demyelinating disease
- ORY-2001 reduces microglial activation in Theiler's MS model
- ORY-2001 is neuroprotective, restoring axonal integrity in TMEV model and also in a glutamate excitotoxicity in vitro model







### Vafidemstat (ORY-2001), a "Neuron fixer": Preclinical Summary

- Positive results in 7 different animal models/test paradigms and in *in-vitro* models
- Anti LSD1 activity is the driving effector
- Does not reduce basal activity nor provokes sedation
- Capable of acting in most of the processes that manifest in patients with different neurodegenerative and psychiatric diseases
- Biomarkers identified in animals that show promise for use in human

		Relevance in some CNS disorders							
		Neurodegenerative space				Psychiatric space			
ORY-2001 Results in PC models		AD	MS	PD	HD	ADHD	BPD	ASD	Depression
+	Cognition / Memory	+	+	+	+			+	
+	Neuroprotection	+	+	+	+	+	+	+	+
+	Neuroinflammation	+	+	+	+	+	+	+	+
+	Social Withdrawal / Apathy	+	+	+	+	+	+	+	+
+	Sociability					+	+	+	+
+	Aggression/Agitation	+		+	+	+	+	+	+

These data may substantially broaden the potential clinical development of ORY-2001 beyond the current indications of AD and MS that the company is initially advancing in clinical trials

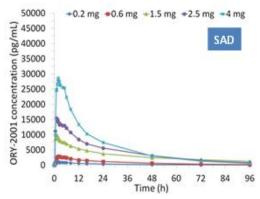


Vafidemstat (ORY-2001)

CLINICAL DEVELOPMENT



- Safe and well tolerated in a +100 healthy volunteers Phase I study
- No hematological impact at the planned doses
- Efficiently crossed the BBB:
  - ORY-2001 concentrations measured in CSF at 2, 6 and 12 h after a single oral 2 mg or 4 mg dose
  - ✓ CSF levels comparable to corresponding unbound plasma concentrations (CSF/plasma<sub>u</sub> ratio  $\approx$  0.7-0.9)
- ✓ ORY-2001 efficiently inhibits the brain human LSD1
- ✓ PK Oral PK T1/2  $\approx$  22h allowing once daily oral
- ✓ PK/PD data allow to select Phase II doses



 ORY-2001 has been already administered to many patients in the ongoing Phase IIs with no safety issues so far

> Vafidemstat (ORY-2001) is in Phase II in humans in AD and MS where we expect to have the first read outs in 2H2019



### An ambitious Phase IIa study to provide useful information to design future Phase II/III studies

### CLINICAL STUDY PROTOCOL

A multicentre, multinational, randomised, double-blind, placebo-controlled, 3arm, 24-week parallel-group study to evaluate the safety, tolerability and preliminary efficacy of ORY-2001 in patients with mild-moderate Alzheimer's Disease, ETHERAL Study

- Mild to Moderate AD patients
- Nº of patients: 150
- Primary Objective: Safety & Tolerability
- Secondary Objectives :
  - Cognition/Agitation/Apathy/QoL
  - Volumetric MRI
- / Biomarker guided study with several CSF inflammatory Biomarkers

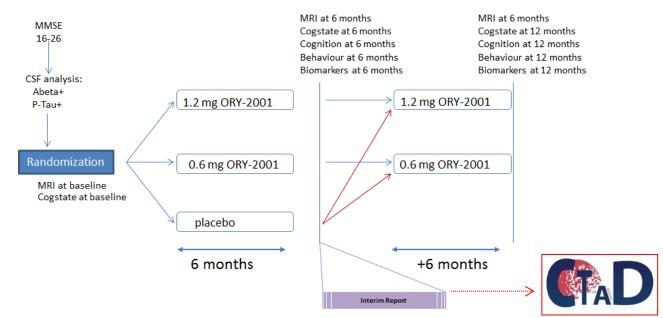


125 in EU. 17 sites

Spain, France & UK actively recruiting
 68 randomized as per mid February



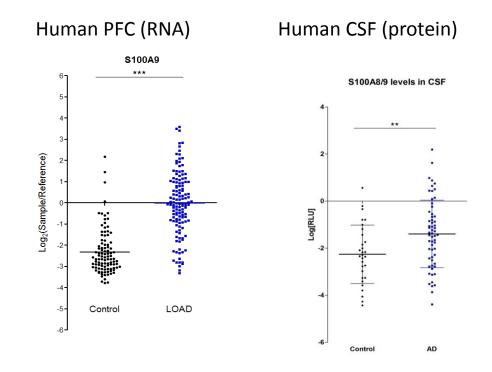
A Twin study in US: around 25 patients IND 1Q2019 FPI expected 1Q2019





### S100A9 has been characterized as one of the TOP10 up-regulated genes in LOAD dataset

- S100A9 PROTEIN levels are significantly increased in CSF from AD patients compared to age-matched controls
- S100A9 CSF PROTEIN levels will be monitored in ETHERAL AD trial
  - S100A9 and inflammation have a correlation with the disease
  - Inflammation plays a mechanistic role in the progression of the disease
  - ORY-2001 reduces S100A9 in animals



S100A9 CSF levels will be monitored in Phase II studies S100A9 has the potential to be a surrogate biomarker for drug activity S100A9 data might be part of a rationale for a fast track

### Changes in S100A9 in patient's CSF may have important clinical development implications



### **SATEEN** A pilot study in MS to see a proof of biological activity

SAfety, Tolerability and Efficacy in an EPIGENETIC approach to treat Multiple Sclerosis

Randomised, double-blind, placebo-controlled, 3-arm, 36 weeks parallel-group study to evaluate the safety and tolerability of ORY-2001 in patients with Relapsing-Remitting Multiple Sclerosis (RRMS) and Secondary Progressive Multiple Sclerosis (SPMS)

Spain only; 9 sites; 24 patients (RR & SP)

Active recruitment ongoing

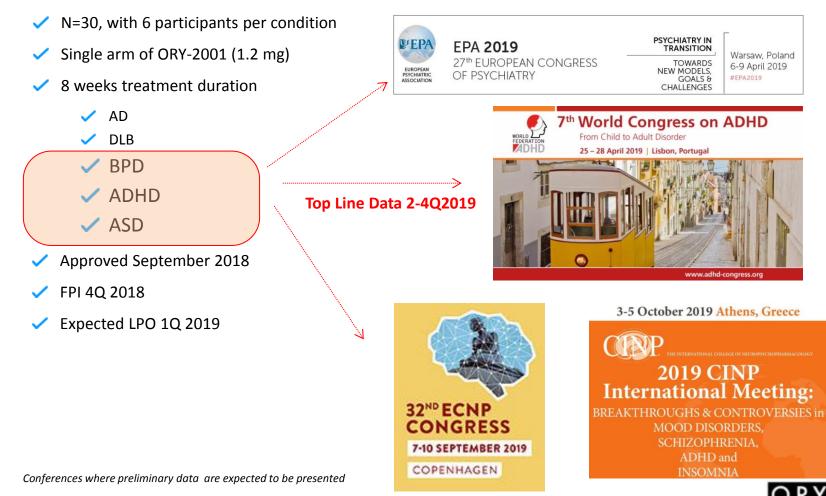
Excellent safety. One patient is +1year on treatment



### **ORY-2001 REIMAGINE Study**



A single center open label exploratory basket trial to assess the effect of ORY-2001 in reducing aggression in patients with two neurodegenerative and three neuropsychiatric indications





ladademstat (ORY-1001)

A Phase II stage clinical compound



### ladademstat (ORY-1001): the most advanced LSD1 inhibitor in clinic

- A small molecule that selectively inhibits LSD1
- Covalent binder. Active in cells at subnanomolar levels
- Preclinical in-vivo positive results in xenografts of AML, SCLC and in PDX of SCLC
- Characterized in PC regulatory toxicological studies
- First LSD1 drug to enter into clinical trials
- Best in Class
- MoA identified in Leukemia, SCLC and medulloblatoma
- ✓ Produces positive results in a Acute Leukemia Phase I/IIa trial (manuscript submitted):
  - Safe and well tolerated and therefore a meaningful candidate for combination with other agents
  - PD Biomarkers identified in different subsets of leukemia
  - Antileukemic activity observed in 29% of patients (12/41), including one CRi as Proof of Biological concept
- Identified Biomarkers to stratify SCLC patients
- Phase IIa ongoing in SCLC (CLEPSIDRA)
- Phase IIa ongoing in AML (ALICE)
- Preclinical / Biomarkers and new combos under constant investigation

In Phase IIa in two different clinical studies



### ladademstat (ORY-1001) is a clean and safe LSD1 inhibitor

Iadademstat is a First & Best in Class selective LSD1 inhibitor in oncology

The most advanced LSD1 inhibitor in clinical development in solid and hematological tumors





### ORY-1001: Overcoming the Differentiation Block in AML

#### Prithviraj Bose<sup>1</sup> and Marina Y. Konopleva<sup>1,\*</sup>

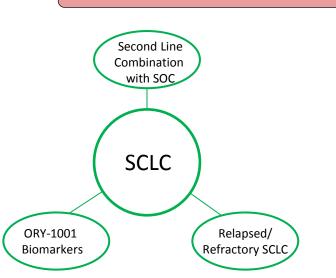
<sup>1</sup>Department of Leukemia, University of Texas MD Anderson Cancer Center, Houston, TX 77030, USA \*Correspondence: mkonople@mdanderson.org https://doi.org/10.1016/j.ccell.2018.02.014

In this issue of *Cancer Cell*, Maes and colleagues report *in vitro* and *in vivo* findings with ORY-1001—an oral, highly potent and selective covalent small-molecule inhibitor of lysine-specific demethylase 1 (LSD1)—in development for acute myeloid leukemia (AML), as well as correlative data from two AML patients receiving ORY-1001.



encoding NOTCH1, enabling the activity of the neuroendocrine cell lineage-associated

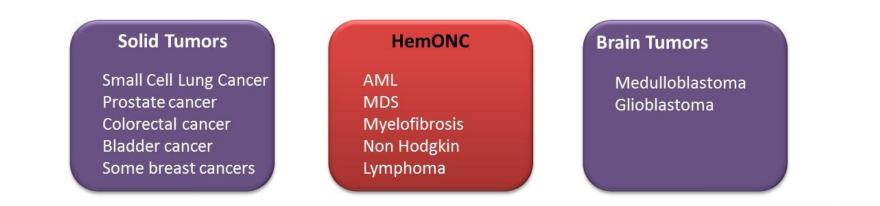
transcription factor ASCL1. Blocking LSD1 with iadademstat (ORY-1001), a drug that has just been approved for phase 2 clinical trials in leukemia, reactivated NOTCH signaling and



### MoA well characterized in SCLC, AML and Medulloblastoma

Small Cell Lung Cancer is the main indication under exploration

### POTENTIAL IADADEMSTAT ONCOLOGICAL INDICATIONS:

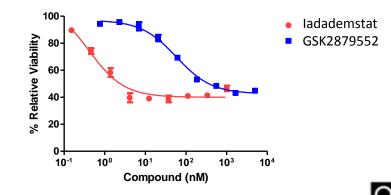


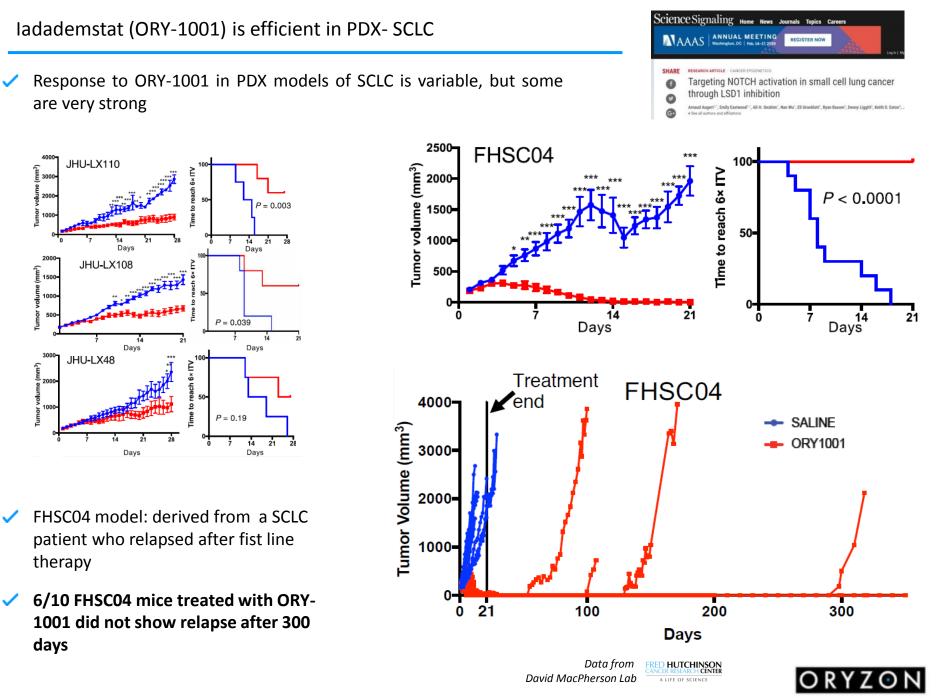


- LSD1 is a target well characterized in SCLC and validated in preclinical models. LSD1 inhibitors are effective in vitro and in-vivo xenograft models of SCLC
- Iadademstat is the best and first in class LSD1 inhibitor in clinic development
- Iadademstat produces complete and durable tumor regression in different chemoresistant PDX models
- Characterized MoA (induction of Notch and repression of ASCL1)
- Identified and patented Biomarkers that are differential in sensitive cell lines
- Characterization of Biomarkers in tumors and plasma from patients
- Phase II Clinical trial ongoing in second line SCLC patients using these biomarkers to stratify patients and identify super-responders

ladademstat is ~2 orders of magnitude more potent in sensitive cell lines than **GSK's clinical LSD1 inh. GSK2879552** (side by side comparison)







**CLEPSIDRA:** A Combination trial of LSD1 and Etop-Platinum in Small Cell Lung Cancer in **biomarker-ID R**elapsed pAtients

A Phase IIa study to assess the safety, tolerability, dose finding and efficacy of ladademstat (ORY-1001) in combination with platinum-etoposide chemotherapy in patients with relapsed, extensive-stage disease small cell lung cancer who are positive to candidate predictive biomarkers

- ✓ Single arm
- Open label; 4 sites in Spain
- Up to 36 patients to be enrolled
- Primary end point: Safety and tolerability of the combo with platinum-etoposide therapy
- Secondary endpoints: RECIST responses; time to responses; duration of response; and overall survival

### **Preliminary Results**

- Patient 1 already completed the first cycle of combo iada+SoC and has started cycle 2.
- Satisfactory and dynamic recruitment pace: 3 more patients enrolled 2nd week of February



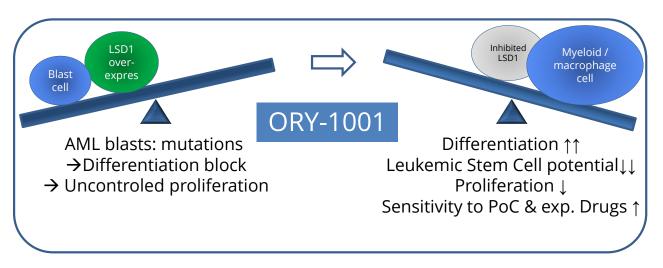


### ladademstat (ORY-1001) MoA: a potent differentiating agent to treat Acute Leukemias

## LSD1 is a target for HEMATOLOGICAL CANCERS, and in particular, for a subset of acute myeloid leukemia: *mixed lineage leukemia* MLL-AML

- Oryzon's LSD1 inhibitors block progression of leukemia into the circulation in mice with experimentally initiated MLL-AF9 AML
- Oryzon's LSD1 inhibitors target Leukemia Stem Cells but spare normal HSPCs





### ALICE: An AML trial with LSD1i in Combination with azacitidine in the Elderly

A Phase IIa study to evaluate the safety, tolerability, dose finding and efficacy of ladademstat (ORY-1001) in combination with azacitidine in older patients with AML in first line therapy

- 🗸 Single arm
- 🗸 Open label
- Up to 36 patients to be enrolled
- Primary end point: Safety and tolerability of the combo with hypomethylating agent Azacitidine
- Secondary endpoints: Responses; time to responses; duration of response; and overall survival

### **Preliminary Results**

- 3 patients have already gone through the first cycle; Good tolerability
- Satisfactory and dynamic recruitment pace: 2<sup>nd</sup> cohort started by February





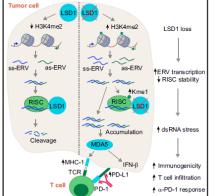
### POTENTIAL ADDITIONAL ONCOLOGICAL INDICATIONS AND NEW COMBO APPROACHES:

Possible combinations with I-O check point inhibitors

### Cell

### LSD1 Ablation Stimulates Anti-tumor Immunity and Enables Checkpoint Blockade

#### **Graphical Abstract**



#### Highlights

- ERV induction and RISC reduction activate dsRNA-IFN pathway upon LSD1 inhibition
- LSD1 loss in tumor cells stimulates anti-tumor T cell immunity
- LSD1 ablation enhances tumor immunogenicity and T cell infiltration
- LSD1 inhibition overcomes resistance to anti-PD-1 therapy in a mouse melanoma model

#### Authors

Wanqiang Sheng, Martin W. LaFleur, Thao H. Nguyen, ..., Housheng Hansen He, Arlene H. Sharpe, Yang Shi

Article

#### Correspondence

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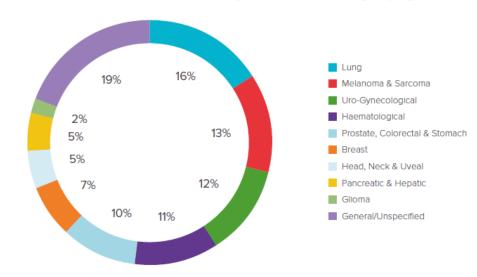
#### In Brief

Ablating the histone demethylase LSD1 genetically or pharmacologically enhances tumor immunogenicity by stimulating endogenous retrovirus expression and downregulating RNAinduced silencing complex, supporting the promise of LSD1 inhibition in overcoming resistance to checkpoint blockade in cancer treatment.

#### Data resources

GSE112230

#### Anti-PD-1/PD-L1 MAb combination studies by (broad) indication (grouping)



Studies listed on clinicaltrials.gov involving combinations of PD-1 or PD-L1 agents Source:"PD-1/PD-L1 Combination Therapies" report, 2017, Evaluate Ltd



### POTENTIAL ADDITIONAL ONCOLOGICAL INDICATIONS AND NEW COMBO APPROACHES:



Medulloblastoma Glioblastoma

#### ARTICLE

COMMUNICATIONS

https://doi.org/10.1038/s41467-018-08269-5 OPEN

# Lsd1 as a therapeutic target in Gfi1-activated medulloblastoma

Catherine Lee<sup>1,2</sup>, Vasilisa A. Rudneva <sup>3</sup>, Serap Erkek<sup>4,5,6</sup>, Marc Zapatka <sup>7</sup>, Lianne Q. Chau<sup>1</sup>, Silvia K. Tacheva-Grigorova<sup>1</sup>, Alexandra Garancher<sup>1</sup>, Jessica M. Rusert<sup>1</sup>, Ozlem Aksoy<sup>8</sup>, Robin Lea<sup>8</sup>, Helai P. Mohammad<sup>9</sup>, Jianxun Wang<sup>10</sup>, William A. Weiss<sup>8</sup>, H. Leighton Grimes <sup>11</sup>, Stefan M. Pfister<sup>4,12</sup>, Paul A. Northcott<sup>3</sup> & Robert J. Wechsler-Reya<sup>1,2</sup>

Drugs that modify the epigenome are powerful tools for treating cancer, but these drugs often have pleiotropic effects, and identifying patients who will benefit from them remains a major clinical challenge. Here we show that medulloblastomas driven by the transcription factor Gfi1 are exquisitely dependent on the enzyme lysine demethylase 1 (Kdmla/Lsd1). We demonstrate that Lsd1 physically associates with Gfi1, and that these proteins cooperate to inhibit genes involved in neuronal commitment and differentiation. We also show that Lsd1 is essential for Gfi1-mediated transformation: Gfi1 proteins that cannot recruit Lsd1 are unable to drive tumorigenesis, and genetic ablation of Lsd1 potently inhibit growth of Gfi1-driven tumors. These studies provide important insight into the mechanisms by which Gfi1 contributes to tumorigenesis, and identify Lsd1 inhibitors as promising therapeutic agents for Gfi1-driven medulloblastoma.

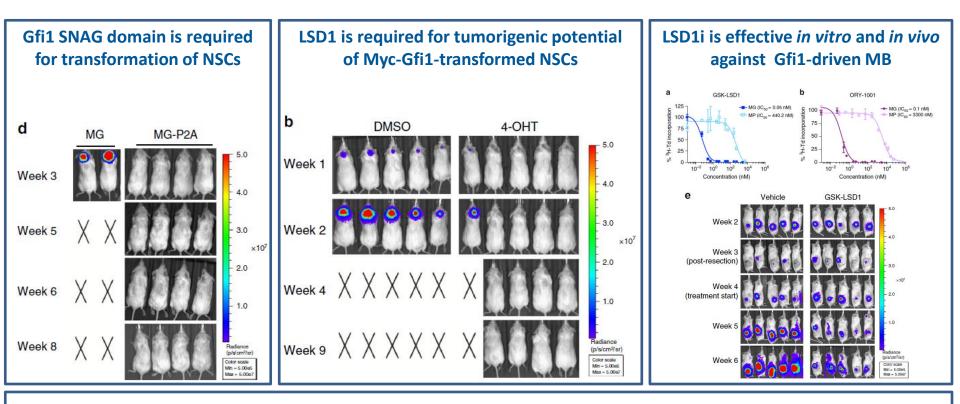




Lsd1 as a therapeutic target in Gfi1-activated

medulloblastoma

LSD1 inhibition is key in medulloblastoma

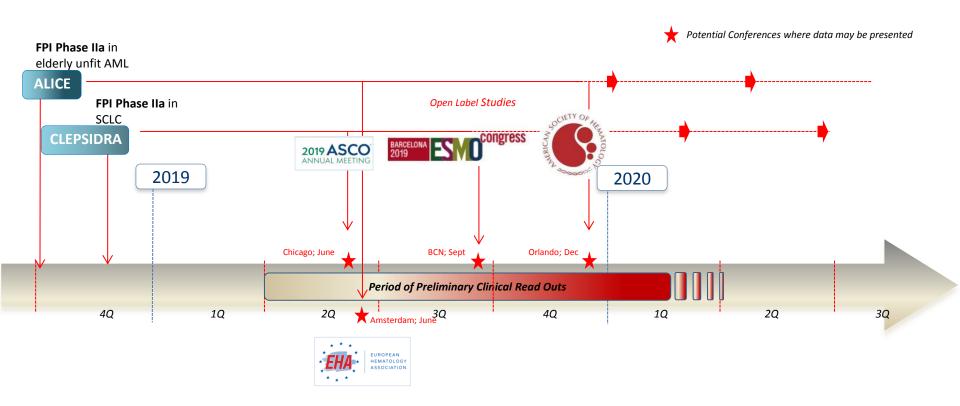


### MoA:

Gfi1 is a key driver of medulloblastoma initiation and maintenance and Lsd1 is a critical mediator of its effects. Gfi1 and Lsd1 act by repressing genes important for neuronal fate commitment and differentiation. Pharmacological targeting of Lsd1 may be effective for treatment of Gfi1-activated medulloblastoma.



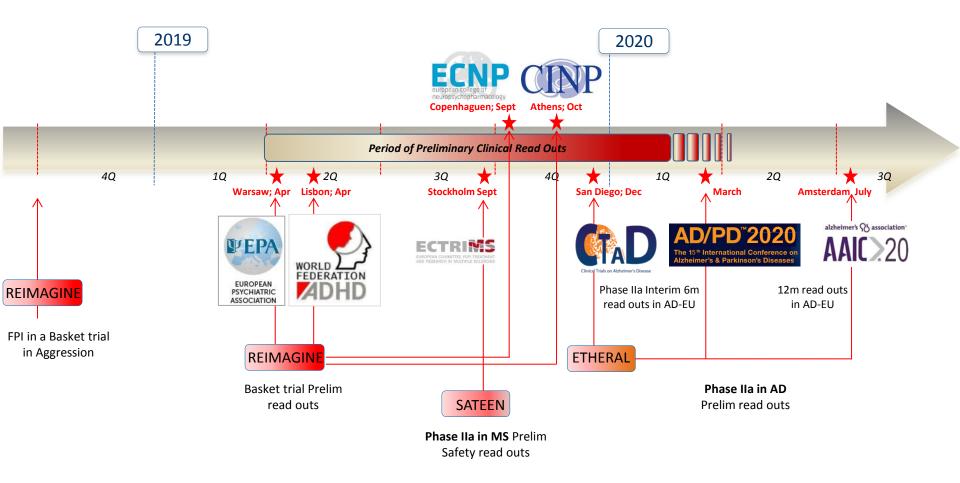
### IADADEMSTAT (ORY-1001): lead CANCER asset





### VAFIDEMSTAT (ORY-2001): lead CNS asset

 $\star$  Conferences where preliminary data are expected to be presented





### ORYZON A GLOBAL LEADER IN CNS EPIGENETICS



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