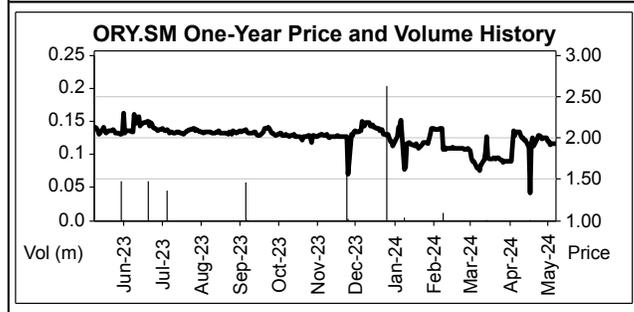


Healthcare: Biotechnology
Company Update

Estimates Changed

Oryzon Genomics SA | ORY.SM-€1.93-MADRID | Buy

Stock Data					
52-Week Low - High	€1.41-€2.46				
Shares Out. (mil)	62.97				
Mkt. Cap.(mil)	€130.72				
3-Mo. Avg. Vol.	194				
12-Mo.Price Target	€12.00				
Cash (mil)	\$11.6				
Tot. Debt (mil)	€18.5				
Rev (\$M)					
Yr Dec	— 2023—	— 2024E—		— 2025E—	
		Curr	Prev	Curr	Prev
1Q	0.0A	0.0A	-	-	-
2Q	0.0A	0.0E	-	-	-
3Q	0.0A	0.0E	-	-	-
4Q	0.0A	0.0E	-	-	-
YEAR	0.0A	0.0E	-	0.0E	-
EPS \$					
Yr Dec	— 2023—	— 2024E—		— 2025E—	
		Curr	Prev	Curr	Prev
1Q	(0.03)A	(0.02)A	(0.03)E	-	-
2Q	0.02A	0.00E	(0.03)E	-	-
3Q	(0.02)A	(0.01)E	(0.03)E	-	-
4Q	(0.03)A	(0.01)E	(0.03)E	-	-
YEAR	(0.06)A	(0.04)E	(0.11)E	(0.06)E	(0.14)E
P/E	NM	NM	NM	NM	NM



ORY 1Q24: PORTICO EOP2 Meeting Near-Term, Three Trials Ongoing, Funded Into 1Q25

ORY ended 1Q24 with \$11.6M, enough to fund operations into 1Q25, and ORY has access to additional convertible debt financing. ORY is enrolling three trials, and expects to initiate four more trials. ORY believes that the FRIDA trial, which is its central iadademstat strategy, is iadademstat's fastest route to market. The FRIDA, SCLC basket, and EVOLUTION trials are enrolling, with enrollment still to start for three more iadademstat trials and the HOPE trial. PORTICO's EOP2 meeting for vafidemstat in BPD first requires full PORTICO analysis.

Vafidemstat

- PORTICO trial.** In 1Q24, PORTICO showed vafidemstat to be safe, but the trial failed to achieve its primary endpoints, namely the Borderline Personality Disorder Checklist (BPDCL) and the Clinical Global Impressions-Severity focused on Agitation/Aggression (CGI-S A/A) across weeks 8-12, both primary endpoints. Although there was a consistent reduction with vafidemstat versus placebo throughout treatment, statistical significance was not achieved ($p=0.41$ and $p=0.25$, respectively). As BPD has no well-established trial endpoints, two of PORTICO's secondary endpoints, which were achieved, will help inform the design of a registrational Phase 3 trial. Given that all 11 primary and secondary efficacy endpoints favored vafidemstat over placebo indicates that there is a positive treatment effect and that further clinical investigation is warranted, especially in a disease with no approved therapy. PORTICO ($n=210$; 27 U.S and European sites) is the first large, randomized Phase 2 BPD trial that statistically achieved two secondary endpoints that reflect clinically meaningful improvements in overall BPD severity and in agitation/aggression. We expect two Phase 3 trials of about 400 patients per trial to be conducted and for an EOP2 meeting to be requested as soon as possible once the full PORTICO data analysis has been conducted. We note that 18 BPD trials have failed, and that with no available treatment and no established endpoints, using different primary endpoint(s) is a fair modification.
- EVOLUTION trial.** The Phase 2b EVOLUTION trial evaluating vafidemstat in schizophrenia continues to enroll patients in Spain and is looking to establish vafidemstat efficacy on negative symptoms and cognitive impairment in patients with schizophrenia. EVOLUTION is partially funded by the Spanish Ministry of Science.
- HOPE trial.** ORY is working with KOLs to finalize the design of HOPE, a randomized, double-blind, placebo-controlled, 50-60 patient Phase 1/2 personalized medicine trial with vafidemstat in Kabuki Syndrome patients. ORY is talking to regulatory agencies to refine the final design of HOPE, and should file an IND in 2024 in the U.S. *(text continues on page 2)*

Iadademstat

- **FRIDA trial.** ORY continues to enroll patients in its Phase 1b FRIDA trial in rel/ref AML with FLT3 mutations, which will evaluate iadademstat plus gilteritinib in up to 45 patients in the U.S. at up to 15 centers. FRIDA has primary endpoints of safety, tolerability, and determining the RP2D, and secondary endpoints of efficacy (i.e., CR/CRh, DoR, MRD), and ORY will meet with the FDA to best plan development of this combination therapy, if FRIDA is successful. ORY believes that the FRIDA trial, which is its central strategy, is iadademstat's fastest route to market. The first two dose escalation cohorts (13 patients total) are completed with no DLTs yet observed, and strong efficacy was observed. The third dose cohort is recruiting.
- **First-line AML trial.** Iadademstat in combination with venetoclax and azacitidine will also be evaluated in first-line AML in a Phase 1b dose-finding investigator-initiated trial led by Oregon Health & Science University. The trial has FDA IND approval and should start enrolling patients around mid-2024.
- **SCLC basket trial.** ORY is also conducting a collaborative Phase 2 basket trial in the U.S. of iadademstat in combination with synergistic agents, such as paclitaxel, in platinum rel/ref SCLC and extrapulmonary high grade neuroendocrine tumors. The first patient was enrolled in January 2023 and enrollment continues. The trial is being conducted in collaboration with Fox Chase Cancer Center, which will test iadademstat in combination with different therapies in trials funded by ORY.
- **New SCLC trial.** A new Phase 1/2 trial to evaluate iadademstat plus a checkpoint inhibitor in first-line metastatic SCLC, will be conducted under ORY's CRADA that was signed with the NCI and is under preparation. MSKCC will lead the trial and the IND was recently approved. About 45-50 patients will be enrolled and the trial should start around mid-2024.
- **STELLAR trial.** ORY's Phase 2 STELLAR trial in the U.S. in first-line metastatic SCLC is being designed, and it is a randomized, multi-center trial of iadademstat plus a checkpoint inhibitor in this setting that could potentially support accelerated approval. We expect STELLAR to start once enough data from the other SCLC trial has been obtained to best inform the design of STELLAR.

Earlier-stage programs

- In 1Q23, ORY announced that it selected ORY-4001, a selective HDAC-6 inhibitor, as its drug candidate to bring into the clinic for neurological diseases such as Charcot-Marie-Tooth (CMT) and ALS, among others. HDAC-6 inhibitors are believed to be potentially effective treatments for CMT, ALS, and other neurological disorders lacking effective treatments. Last year, ORY and the CMT Research Foundation agreed to explore ORY's HDAC-6 inhibitors, and ORY-4001 was selected due to the positive preclinical results generated under this collaboration. ORY-4001 is highly selective against other HDAC classes, resulting in a favorable safety profile that avoids hematotoxicity, as well as being strongly anti-inflammatory in vivo. ORY-4001 has shown multiple positive responses in a validated CMT1A peripheral neuropathy in vivo model which reliably recapitulates many of the symptoms of CMT in humans, and it is currently progressing through IND enabling studies. CMT is a progressive, degenerative peripheral nerve disease affecting 150k U.S. patients and over 3M globally. CMT is caused by a variety of genetic mutations, with CMT1A mutation causing the disease in about half of the patients. HDAC6 inhibition or depletion has also been previously described as a potentially effective treatment for ALS, protecting against neurodegeneration in various ALS mouse and human iPSC models. Due to the key role altered axonal transport and proteostasis play in both CMT and ALS, ORY will evaluate ORY-4001 in ALS mouse models. To help fund preclinical evaluation of ORY-4001 in ALS, the ALS Association has awarded ORY an almost \$500k grant through its Lawrence and Isabel Barnett Drug Development Program.

VALUATION

Our 12-month price target of €12, is based on a DCF analysis using a 35% discount rate that is applied to all cash flows and the terminal value, which is based on a 4x multiple of our projected 2030 operating income of \$725 million. We arrive at this valuation by projecting future revenue from vafidemstat in borderline personality disorder and Kabuki syndrome, as well as iadademstat in AML and SCLC.

Factors that could impede shares of ORY.SM from achieving our price target include vafidemstat and iadademstat failing to generate statistically significant clinical results. Also, regulatory agencies could fail to approve these drugs even if pivotal clinical trials are statistical successes, due to the agency viewing the results as not clinically meaningful. Loss of key management personnel could also impede achieving our price target, as could smaller than projected commercial opportunity due to changes in market size, competitive landscape, and drug pricing and reimbursement.

RISKS

- **Clinical risk.** ORY.SM's clinical staged products could fail to deliver statistically significant results in late-stage clinical trials, substantially reducing the value of ORY.SM's product candidates and therefore our target price.
- **Regulatory risk.** Even if successful in the clinic, ORY.SM's products could fail to be approved by domestic and/or foreign regulatory bodies, which would reduce ORY.SM's value and therefore our target price.
- **Financing risk.** ORY.SM will need additional capital to fund its operations, and such financing may not occur, or it could be substantially dilutive to existing investors.
- **Competitive risk.** For any future approved ORY.SM products, they may not be well adopted in a competitive marketplace, which would adversely affect ORY.SM's value and therefore our target price.
- **High stock price volatility.** This issue is common among small-cap biotechnology companies with relatively low trading volumes.

COMPANY DESCRIPTION

Founded in 2000 in Barcelona, Spain, Oryzon (ISIN Code: ES0167733015) is a clinical stage biopharmaceutical company and the European leader in epigenetics, with a strong focus on personalized medicine in CNS disorders and oncology. Oryzon's team is composed of highly qualified professionals from the pharma industry located in Barcelona, Boston, and San Diego. Oryzon has an advanced clinical portfolio with two LSD1 inhibitors, vafidemstat in CNS and iadademstat in oncology, in several Phase II clinical trials. The company has other pipeline assets directed against other epigenetic targets like HDAC-6, where ORY-4001 has been nominated as clinical candidate for the treatment of certain neurological disorders such as CMT and ALS. In addition, Oryzon has a strong platform for biomarker identification and target validation for a variety of malignant and neurological diseases. For more information, visit www.oryzon.com

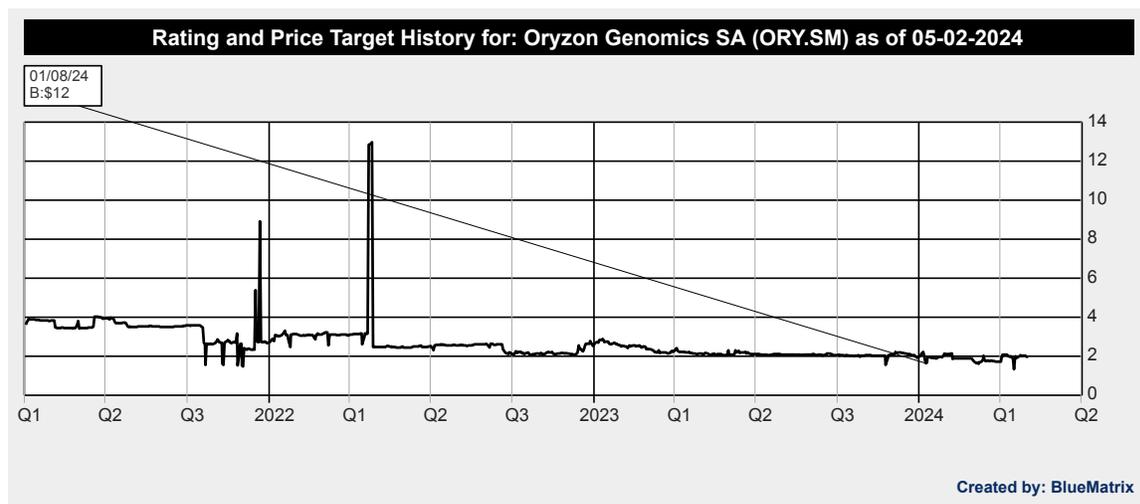
Oryzon Genomics SA	Jonathan Aschoff, Ph.D. (646) 616-2795 jaschoff@roth.com																				
Income Statement																					
Fiscal Year ends December																					
(in 000, except per share items)																					
	2018A	2019A	2020A	2021A	2022A	1Q23	2Q23	3Q23	4Q23	2023A	1Q24A	2Q24E	3Q24E	4Q24E	2024E	2025E	2026E	2027E	2028E	2029E	2030E
Global iadademstat revenue																-	7,683	99,008	147,956	176,048	184,560
Global vafidemstat revenue																-	-	156,140	331,900	531,986	592,897
Total revenue																-	7,683	255,148	479,856	708,034	777,457
Cost of revenue																-	1,153	17,570	26,435	30,024	30,193
R&D	8,489	12,647	13,591	15,118	17,701	4,372	4,264	3,821	3,867	16,324	2,636	2,662	2,689	2,716	10,703	12,309	12,924	13,053	13,184	13,316	13,449
G&A	2,993	3,176	3,484	5,529	4,771	1,223	1,096	674	1,187	4,180	863	872	880	889	3,504	3,855	6,553	7,208	7,929	8,325	8,741
Total operating expenses	11,482	15,823	17,075	20,647	22,472	5,595	5,360	4,495	5,054	20,504	3,499	3,534	3,569	3,605	14,207	16,163	20,629	37,832	47,548	51,665	52,383
Operating income	(11,482)	(15,823)	(17,075)	(20,647)	(22,472)	(5,595)	(5,360)	(4,495)	(5,054)	(20,504)	(3,499)	(3,534)	(3,569)	(3,605)	(14,207)	(16,163)	(12,946)	217,316	432,308	656,369	725,074
Other income (net)	8,143	11,522	11,805	12,510	16,661	4,215	4,054	3,669	3,619	15,557	2,400	3,000	3,000	3,000	11,400	12,000	11,000	10,000	8,000	6,000	5,000
Net income (pretax)	(3,339)	(4,301)	(5,269)	(8,137)	(5,811)	(1,380)	(1,306)	(826)	(1,435)	(4,947)	(1,099)	(534)	(569)	(605)	(2,807)	(4,163)	(1,946)	227,316	440,308	662,369	730,074
Net financial & tax	(1,991)	(187)	(1,098)	(2,760)	(1,276)	392	(2,459)	300	468	(1,299)	140	(250)	(250)	(250)	(610)	-	(487)	56,829	110,077	165,592	182,519
Net income	(1,348)	(4,114)	(4,171)	(5,377)	(4,535)	(1,772)	1,153	(1,126)	(1,903)	(3,648)	(1,239)	(284)	(319)	(355)	(2,197)	(4,163)	(1,460)	170,487	330,231	496,777	547,556
EPS basic	(0.04)	(0.10)	(0.08)	(0.10)	(0.08)	(0.03)	0.02	(0.02)	(0.03)	(0.06)	(0.02)	(0.00)	(0.01)	(0.01)	(0.04)	(0.06)	(0.02)	2.35	4.34	6.22	6.53
EPS diluted	(0.04)	(0.10)	(0.08)	(0.10)	(0.08)	(0.03)	0.02	(0.02)	(0.03)	(0.06)	(0.02)	(0.00)	(0.01)	(0.01)	(0.04)	(0.06)	(0.02)	1.97	3.67	5.29	5.60
Basic shares outstanding	34,638	41,589	49,235	52,762	53,354	56,190	57,339	58,154	58,451	57,616	61,216	61,828	61,889	61,951	61,721	65,668	68,952	72,399	76,019	79,820	83,811
Diluted shares outstanding	34,638	41,565	49,235	52,762	53,354	56,190	57,339	58,154	58,451	57,616	61,216	61,828	61,889	61,951	61,721	65,668	68,952	86,437	90,057	93,858	97,849

Source: SEC filings, company press releases, and ROTH MKM

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Shares of Oryzon Genomics SA may be subject to the Securities and Exchange Commission's Penny Stock Rules, which may set forth sales practice requirements for certain low-priced securities.



Each box on the Rating and Price Target History chart above represents a date on which an analyst made a change to a rating or price target, except for the first box, which may only represent the first note written during the past three years. **Distribution Ratings/IB Services** shows the number of companies in each rating category from which Roth or an affiliate received compensation for investment banking services in the past 12 month.

Distribution of IB Services Firmwide

Rating	Count	Percent	IB Serv./Past 12 Mos. as of 05/06/2024	
			Count	Percent
Buy [B]	343	72.21	86	25.07
Neutral [N]	78	16.42	4	5.13
Sell [S]	2	0.42	0	0
Under Review [UR]	52	10.95	1	1.92

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Neutral: A rating, which at the time it is instituted and or reiterated, that indicates an expectation of a total return between negative 10% and 10% over the next 12 months.

Sell: A rating, which at the time it is instituted and or reiterated, that indicates an expectation that the price will depreciate by more than 10% over the next 12 months.

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