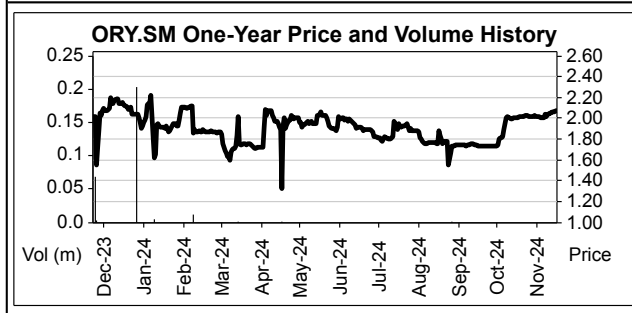


Healthcare: Biotechnology
Analysis of Sales/Earnings

Estimates Changed

Oryzon Genomics SA | ORY.SM-€2.08-MADRID | Buy

Stock Data					
52-Week Low - High	€1.41-€2.44				
Shares Out. (mil)	64.66				
Mkt. Cap.(mil)	€109.12				
3-Mo. Avg. Vol.	15				
12-Mo.Price Target	€12.00				
Cash (mil)	€8.4				
Tot. Debt (mil)	€17.8				
Rev (\$M)					
Yr Dec	— 2023—	— 2024E—		— 2025E—	
		Curr	Prev	Curr	Prev
1Q	0.0A	0.0A	0.0A	0.0E	0.0E
2Q	0.0A	0.0A	0.0A	0.0E	0.0E
3Q	0.0A	0.0A	0.0A	0.0E	0.0E
4Q	0.0A	0.0E	0.0E	0.0E	0.0E
YEAR	0.0A	0.0E	0.0E	0.0E	0.0E
EPS \$					
Yr Dec	— 2023—	— 2024E—		— 2025E—	
		Curr	Prev	Curr	Prev
1Q	(0.03)A	(0.02)A	(0.02)A	(0.01)E	--
2Q	0.02A	0.00A	0.00A	(0.01)E	--
3Q	(0.02)A	(0.02)A	(0.02)A	(0.02)E	--
4Q	(0.03)A	(0.01)E	(0.02)E	(0.03)E	--
YEAR	(0.06)A	(0.05)E	(0.06)E	(0.07)E	(0.10)E
P/E	NM	NM	NM	NM	NM



ORY 3Q24: Phase 3 BPD Program Defined, Four Trials Enrolling, Funded Into 2026

ORY ended 3Q24 with USD\$8.4M, enough funding into 2026, per our projections, and ORY has access to additional convertible debt financing. ORY is enrolling four trials and expects to initiate six more. 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 to start for four more iadademstat trials, and the HOPE and PORTICO-2 trials. ORY's positive EoP2 meeting has defined a clear path forward in BPD for vafidemstat.

Vafidemstat

- Phase 3 BPD program defined.** The two Phase 3 trials to evaluate vafidemstat in borderline personality disorder (BPD) are now defined as per a favorable EOP2 meeting with the FDA during which the agency blessed State-Trait Anger Expression Inventory 2 (STAXI-2) as the sole primary endpoint, STAXI-2 was a secondary endpoint achieved ($p=0.0071$) in the Phase 2b PORTICO trial, which missed both of its primary endpoints (Borderline Personality Disorder Checklist (BPDCL) and the Clinical Global Impressions-Severity focused on Agitation/Aggression (CGI-S A/A); $p=0.41$ and $p=0.25$, respectively). As BPD has no well-established trial endpoints and given the absence of any FDA-approved therapy for BPD, STAXI-2 was deemed acceptable, as it evaluates anger in an indication having a considerable agitation and aggression component. We note that all 11 primary and secondary efficacy endpoints favored vafidemstat over placebo, indicating that there is a positive treatment effect and that further clinical investigation is warranted. We also note that 18 BPD trials have failed and, that with no available treatment and no established endpoints, using a different primary endpoint is a fair modification. Vafidemstat was, as in all previous trials, safe and well-tolerated in PORTICO. Each of the two Phase 3 trials will enroll 350 patients (randomized 1:1), treat for 18 weeks, and should begin enrollment by mid-2025.
- 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 (primary endpoint) and cognitive impairment and positive symptoms (secondary endpoints) in patients with schizophrenia. After ORY evaluated the effect sizes or vafidemstat in treating BPD, the company has increased EVOLUTION's enrollment target. EVOLUTION is partially funded by the Spanish Ministry of Science.
- HOPE trial.** ORY is working with KOLs to evaluate the feasibility of conducting HOPE, a randomized, double-blind, placebo-controlled, 50-60 patient Phase 1/2 personalized medicine trial to evaluate vafidemstat in Kabuki Syndrome patients. ORY may file an IND in 2025 in the U.S. (text continued on page 2)

ORY traded intraday at \$1.56 at 4:46PM GMT +1

iadademstat

- **FRIDA trial.** ORY continues to enroll patients in its Phase 1b FRIDA trial in rel/ref AML with FLT3 mutations, which is evaluating 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. Enrollment in the third dose cohort is also completed, but no results have yet been released. At EHA-2024, ORY presented preliminary data from the first two dose cohorts of the trial (n=13 for efficacy, n=15 for safety). The therapy was safe (no DLTs thus far), well-tolerated, and had strong efficacy, given that nine (69%) had bone marrow blast clearance in the first cycle, including five (38%) patients achieving CR/CRh/CRi, and two underwent HSCT (highly favorable outcome in AML). Cohort 3 (lower iadademstat dose) is now enrolling, per FDA's Project Optimus guidelines.
- **First-line AML and MDS trials.** Iadademstat in combination with venetoclax and azacitidine will also be evaluated in first-line AML in a 45-patient Phase 1b dose-finding investigator-initiated trial led by the University of Pittsburgh Cancer Institute. The trial has FDA IND approval and should start enrolling patients in 4Q24. This same triple combination therapy is also to be evaluated in first-line AML in an investigator-initiated study led by Oregon Health & Science University, which has started treating patients. The Phase 1b dose-finding trial is currently enrolling patients. In a related condition called myelodysplastic syndrome (MDS), ORY will evaluate iadademstat in a new Investigator-initiated study led by the Medical College of Wisconsin, which will evaluate iadademstat plus azacitidine in MDS.
- **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.
- **MSKCC-led SCLC trial.** A Phase 1/2 trial (n=45-50) to evaluate iadademstat plus a checkpoint inhibitor in first-line metastatic SCLC, will be conducted under ORY's CRADA which was signed with the NCI and is now ready to enroll patients, which should start by YE24. MSKCC will lead the trial and the IND is approved.
- **STELLAR trial.** ORY's Phase 2 STELLAR trial in the U.S. in first-line metastatic SCLC is being designed, and it will be 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 MSKCC-led SCLC trial has been obtained to best inform the design of STELLAR.

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 \$636 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

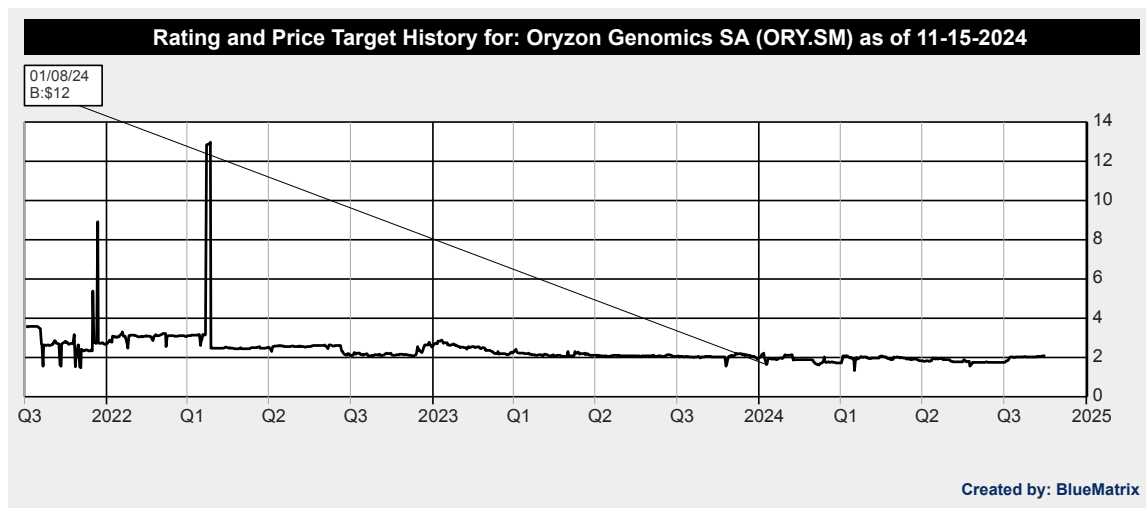
Founded in 2000 in Barcelona, Spain, Oryzon (ISIN Code: ES0167733015) is a clinical stage biopharmaceutical company and the European leader in epigenetics, with a strong focus on personalized medicine in CNS disorders and oncology. Oryzon's team is composed of highly qualified professionals from the 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 a clinical candidate ORY-4001, has been nominated for its possible development in 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				
Income Statement																	jaschoff@roth.com				
Fiscal Year ends December																					
(in 000, except per share items)																					
	2018A	2019A	2020A	2021A	2022A	2023A	1Q24A	2Q24A	3Q24A	4Q24E	2024E	1Q25E	2Q25E	3Q25E	4Q25E	2025E	2026E	2027E	2028E	2029E	2030E
Global iadademstat revenue																-	-	93,669	143,784	171,389	179,742
Global vafidemstat revenue																-	-	100,935	271,856	427,073	505,511
Total revenue																-	-	194,604	415,640	598,461	685,253
Cost of revenue																-	-	16,769	25,810	29,372	29,566
R&D	8,489	12,647	13,591	15,118	17,701	16,324	2,636	2,325	1,915	1,934	8,810	2,031	2,335	2,803	3,363	10,532	11,059	11,169	11,281	11,394	11,508
G&A	2,993	3,176	3,484	5,529	4,771	4,180	863	1,222	879	888	3,852	906	924	942	961	3,732	6,345	6,979	7,677	8,061	8,464
Total operating expenses	11,482	15,823	17,075	20,647	22,472	20,504	3,499	3,547	2,794	2,822	12,662	2,936	3,259	3,745	4,324	14,264	17,404	34,918	44,768	48,827	49,538
Operating income	(11,482)	(15,823)	(17,075)	(20,647)	(22,472)	(20,504)	(3,499)	(3,547)	(2,794)	(2,822)	(12,662)	(2,936)	(3,259)	(3,745)	(4,324)	(14,264)	(17,404)	159,686	370,872	549,635	635,715
Other income (net)	8,143	11,522	11,805	12,510	16,661	15,557	2,400	2,061	1,671	2,000	8,132	2,000	2,000	2,000	2,000	8,000	8,000	7,000	7,000	6,000	5,000
Net income (pretax)	(3,339)	(4,301)	(5,269)	(8,137)	(5,811)	(4,947)	(1,099)	(1,486)	(1,123)	(822)	(4,530)	(936)	(1,259)	(1,745)	(2,324)	(6,264)	(9,404)	166,686	377,872	555,635	640,715
Net financial & tax	(1,991)	(187)	(1,098)	(2,760)	(1,276)	(1,299)	140	(1,599)	256	(250)	(1,453)	(300)	(300)	(300)	(300)	(1,200)	(1,000)	41,672	94,468	138,909	160,179
Net income	(1,348)	(4,114)	(4,171)	(5,377)	(4,535)	(3,648)	(1,239)	113	(1,379)	(572)	(3,077)	(636)	(959)	(1,445)	(2,024)	(5,064)	(8,404)	125,015	283,404	416,726	480,536
EPS basic	(0.04)	(0.10)	(0.08)	(0.10)	(0.08)	(0.06)	(0.02)	0.00	(0.02)	(0.01)	(0.05)	(0.01)	(0.01)	(0.02)	(0.03)	(0.07)	(0.12)	1.65	3.56	4.99	5.48
EPS diluted	(0.04)	(0.10)	(0.08)	(0.10)	(0.08)	(0.06)	(0.02)	0.00	(0.02)	(0.01)	(0.05)	(0.01)	(0.01)	(0.02)	(0.03)	(0.07)	(0.12)	1.39	3.03	4.27	4.72
Basic shares outstanding	34,638	41,589	49,235	52,762	53,354	57,616	61,216	62,215	63,384	68,455	63,817	68,523	68,592	68,660	68,729	68,626	72,165	75,774	79,562	83,540	87,717
Diluted shares outstanding	34,638	41,565	49,235	52,762	53,354	57,616	61,216	62,215	63,384	68,455	63,817	68,523	68,592	68,660	68,729	68,626	72,165	89,811	93,599	97,578	101,755

Source: SEC filings, company press releases, and ROTH Capital Partners

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Disclosures:



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 11/21/2024	
			Count	Percent
Buy [B]	345	72.63	107	31.01
Neutral [N]	80	16.84	6	7.50
Sell [S]	2	0.42	0	0
Under Review [UR]	48	10.11	1	2.08

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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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