

Healthcare: Biotechnology

Company Update

Oryzon Genomics SA | ORY.SM - €3.61 - MADRID | Buy

Stock Data

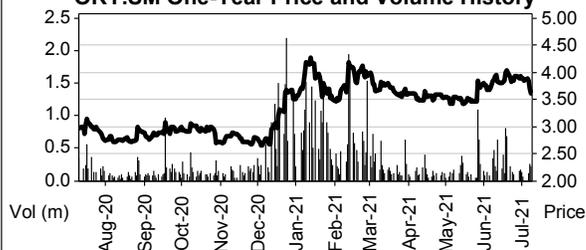
| | |
|--------------------|---------------|
| 52-Week Low - High | €2.61 - €4.40 |
| Shares Out. (mil) | 53.06 |
| Mkt. Cap.(mil) | €191.29 |
| 3-Mo. Avg. Vol. | 196,635 |
| 12-Mo.Price Target | €15.00 |
| Cash (mil) | \$45.2 |
| Tot. Debt (mil) | \$18.2 |

Revenue (\$ millions)

| Yr Dec | —2020— | —2021E— | —2022E— |
|--------|--------|-------------|-------------|
| | | Curr | Curr |
| 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 | —2020— | —2021E— | —2022E— |
|--------|---------|-------------|-------------|
| | | Curr | Curr |
| 1Q | (0.03)A | (0.04)A | - |
| 2Q | 0.00A | (0.05)E | - |
| 3Q | (0.02)A | (0.05)E | - |
| 4Q | (0.03)A | (0.06)E | - |
| YEAR | (0.08)A | (0.20)E | (0.26)E |
| P/E | NM | NM | NM |

ORY.SM One-Year Price and Volume History


ORY: Reports Results from Phase 2 ESCAPE Trial in Severe COVID-19 at ECCMID

In its latest ECCMID e-poster, ORY presented preliminary Phase 2 ESCAPE trial data, highlighting vafidemstat's anti-inflammatory effect in hospitalized, severe COVID-19. We note that a vafidemstat dose of 2.4mg/day for five days durably and substantially occupied its target LSD1, and was well tolerated. Rapidly improved hospital management of serious COVID-19 over the May 2020 to March 2021 enrollment period likely led to the miss of the mortality primary endpoint.

- In its latest ECCMID e-poster, ORY presented preliminary (based on non-curated data after soft lock of the trial database) Phase 2 ESCAPE trial (n=60; 1:1 randomization; SOC as background therapy) data, highlighting vafidemstat's anti-inflammatory effect in hospitalized, severe COVID-19. SOC mostly involved glucocorticoids (50 of 60 (83%) of patients), 69% of patients were discharged before the first week of treatment in both arms, and four patients were admitted to ICU (two per arm). We note that a vafidemstat dose of 2.4mg/day for five days durably and substantially occupied LSD1 protein (up to 97%; mean 86%), the drug's target, and was well tolerated with only 13 AEs (none severe or serious) reported in 11 patients (nine AEs with vafidemstat/SOC (all mild and not treatment related), four in the SOC control arm). The most frequent AEs were GI disorders (n=4, 6.7%), including gingival bleeding, nausea, and diarrhea.
- Regarding disease control, 24 (77.4%) control group patients required mechanical ventilation, versus 19 (65.5%) for vafidemstat/SOC, and six patients required tocilizumab rescue medication (four SOC and two vafidemstat/SOC patients, all of whom were excluded from the primary analysis). Furthermore, one SOC patient died due to COVID-19 morbidities versus none on vafidemstat/SOC, most likely due to the rapidly improved hospital management of seriously ill COVID-19 patients over the May 2020 to March 2021 enrollment period. Mortality was in fact the primary endpoint, which was not met, but the trial still highlighted vafidemstat's strong anti-inflammatory properties. Secondary endpoints included the incidence of mechanical ventilation, development of ARDS, referral to the ICU, and respiratory function, among others.
- Inhibiting LSD1 with vafidemstat significantly reduced some circulating T cell subsets (i.e, CD4+ Treg, CD4+ effector memory, and CD4+ terminal effector cells, all of which were previously shown to be elevated during COVID-19 pneumonia) and inflammatory mediators such as cytokines and chemokines, particularly reduction of plasma levels of most of the cytokines evaluated after 5 days of vafidemstat/SOC treatment versus SOC alone (p<0.05 for IL-12p70, IL-17A and IFN γ). Trends in cytokine reduction denoted as p-values <0.2 included IL-2, IL-4, TNF α , and IP-10. Vafidemstat also mildly elevated RANTES, a chemokine that helps protect COVID-19 patients from severe illness. ORY still needs to analyze differences between treatment arms in clinical response, including days of hospitalization and respiratory parameters.

Important Disclosures & Regulation AC Certification(s) are located on page 4 to 5 of this report.

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VALUATION

Our 12-month price target of €15, 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 about \$1 billion. We arrive at this valuation by only projecting future revenue from vafidemstat in borderline personality disorder and iadademstat in AML and SCLC. We view our valuation to be conservative given that it excludes revenue from vafidemstat in ASD, AD, and ADHD. Commercial success outside the three financially modeled indications would serve as upside to our valuation. We believe that ORY.SM has prudently selected areas of unmet need and therefore market demand.

Factors that could impede shares of ORY.SM from achieving our price target include vafidemstat and iadademstat failing to generate statistically significant Phase 3 results in AD and AML, respectively. Also, regulatory agencies could fail to approve these drugs even if both Phase 3 programs 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

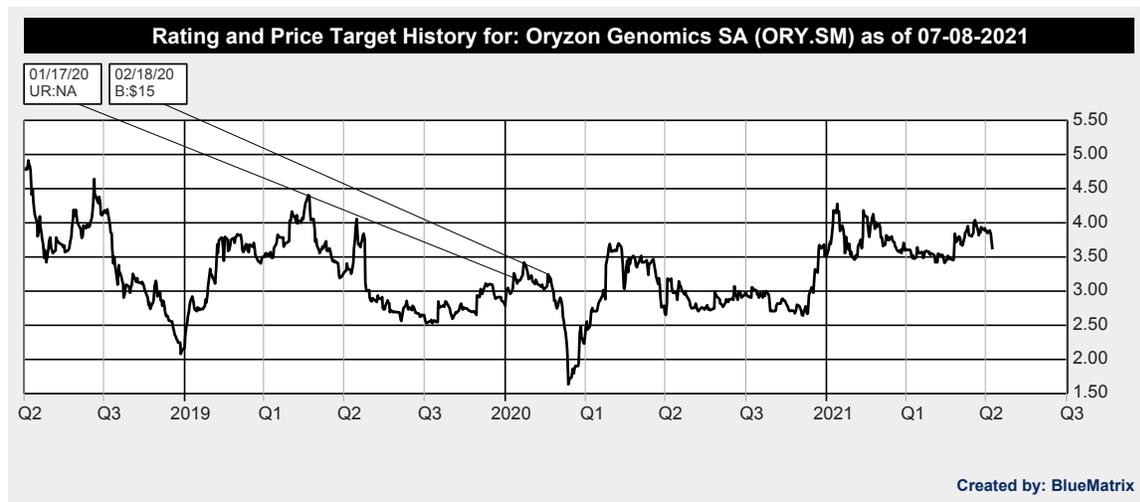
Founded in 2000 in Barcelona, Spain, Oryzon (ISIN Code: ES0167733015) is a clinical stage biopharmaceutical company considered as a European champion in epigenetics. Oryzon has one of the strongest portfolios in the field. Oryzon's LSD1 program has rendered clinical stage vafidemstat and iadademstat. In addition, Oryzon has ongoing programs for developing inhibitors against other epigenetic targets. Oryzon has a strong technological platform for biomarker identification and performs biomarker and target validation for a variety of malignant and neurodegenerative diseases. Oryzon has offices in Spain and the United States

| 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) | | | | | | | | | | | | | | | |
| | 2017A | 2018A | 2019A | 1Q20 | 2Q20 | 3Q20 | 4Q20 | 2020A | 1Q21A | 2Q21E | 3Q21E | 4Q21E | 2021E | 2022E | 2023E |
| Global iadademstat revenue | | | | | | | | | | | | | | | |
| Global vafidemstat revenue | | | | | | | | | | | | | | | |
| Collaboration revenue | 20 | | | | | | | | | | | | | | |
| Total revenue | 20 | | | | | | | | | | | | | | |
| Cost of revenue | | | | | | | | | | | | | | | |
| R&D | 6,363 | 8,489 | 12,647 | 4,316 | 2,731 | 2,279 | 3,376 | 13,591 | 4,278 | 4,492 | 4,716 | 4,952 | 18,439 | 23,048 | 28,810 |
| G&A | 4,502 | 2,993 | 3,176 | 846 | 906 | 733 | 776 | 3,484 | 1,302 | 1,107 | 1,118 | 1,129 | 4,655 | 4,888 | 11,243 |
| Total operating expenses | 10,865 | 11,482 | 15,823 | 5,162 | 3,637 | 3,012 | 4,152 | 17,075 | 5,580 | 5,599 | 5,834 | 6,081 | 23,094 | 27,937 | 40,053 |
| Operating income | (10,845) | (11,482) | (15,823) | (5,162) | (3,637) | (3,012) | (4,152) | (17,075) | (5,580) | (5,599) | (5,834) | (6,081) | (23,094) | (27,937) | (40,053) |
| Other income (net) | 5,659 | 8,143 | 11,522 | 4,013 | 2,312 | 1,787 | 2,904 | 11,805 | 3,536 | 2,800 | 2,800 | 2,800 | 11,936 | 12,533 | |
| Net income (pretax) | (5,186) | (3,339) | (4,301) | (1,149) | (1,324) | (1,225) | (1,248) | (5,269) | (2,044) | (2,799) | (3,034) | (3,281) | (11,158) | (15,404) | (40,053) |
| Net financial & tax | 1,047 | (1,991) | (187) | 116 | (1,102) | (155) | 143 | (1,098) | 89 | (100) | (100) | (100) | (211) | (300) | |
| Net income | (6,233) | (1,348) | (4,114) | (1,265) | (222) | (1,070) | (1,391) | (4,171) | (2,133) | (2,699) | (2,934) | (3,181) | (10,947) | (15,104) | (40,053) |
| EPS basic | (0.20) | (0.04) | (0.10) | (0.03) | (0.00) | (0.02) | (0.03) | (0.08) | (0.04) | (0.05) | (0.05) | (0.06) | (0.20) | (0.26) | (0.67) |
| EPS diluted | (0.20) | (0.04) | (0.10) | (0.03) | (0.00) | (0.02) | (0.03) | (0.08) | (0.04) | (0.05) | (0.05) | (0.06) | (0.20) | (0.26) | (0.67) |
| Basic shares outstanding | 31,711 | 34,638 | 41,589 | 45,489 | 45,808 | 52,762 | 52,762 | 49,235 | 52,762 | 53,289 | 53,822 | 54,360 | 53,558 | 57,078 | 59,932 |
| Diluted shares outstanding | 31,711 | 34,638 | 41,565 | 45,489 | 45,808 | 52,762 | 52,762 | 49,235 | 52,762 | 53,289 | 53,822 | 54,360 | 53,558 | 57,078 | 59,932 |

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 07/09/21 | |
|-------------------|-------|---------|---|---------|
| | | | Count | Percent |
| Buy [B] | 310 | 77.31 | 200 | 64.52 |
| Neutral [N] | 51 | 12.72 | 27 | 52.94 |
| Sell [S] | 1 | 0.25 | 1 | 100.00 |
| Under Review [UR] | 38 | 9.48 | 27 | 71.05 |

Our rating system attempts to incorporate industry, company and/or overall market risk and volatility. Consequently, at any given point in time, our investment rating on a stock and its implied price movement may not correspond to the stated 12-month price target.

Ratings System Definitions - ROTH employs a rating system based on the following:

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

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.

Under Review [UR]: A rating, which at the time it is instituted and or reiterated, indicates the temporary removal of the prior rating, price target and estimates for the security. Prior rating, price target and estimates should no longer be relied upon for UR-rated securities.

Not Covered [NC]: ROTH does not publish research or have an opinion about this security.

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