

Sunesis Pharmaceuticals

Initiation of coverage

Pharma & biotech

A make-or-break year

Sunesis is a pharmaceutical company developing small molecule oncology drugs. Its lead program is Qinprezo, a quinolone derivative for relapsed/refractory acute myeloid leukemia (AML) without the dose limiting cardiotoxicity of anthracyclines. The FDA discouraged submitting an NDA after it missed its primary endpoint, but significant potential remains in Europe where Qinprezo has data comparable to those used in other related approvals. Sunesis is also advancing SNS-062, a novel non-covalent, oral BTK inhibitor that may work in Imbruvica relapsed and refractory patients.

Year end	Revenue (\$m)	PBT* (\$m)	EPS* (\$)	DPS (\$)	P/E (x)	Yield (%)
12/14	5.7	(43.0)	(0.72)	0.0	N/A	N/A
12/15	3.1	(36.7)	(0.50)	0.0	N/A	N/A
12/16e	2.4	(36.1)	(0.47)	0.0	N/A	N/A
12/17e	1.7	(48.1)	(0.60)	0.0	N/A	N/A

Note: *PBT and EPS are normalized, excluding amortization of acquired intangibles, exceptional items and share-based payments.

Europe is a different story for Qinprezo

The FDA's recommendation to not pursue an NDA for Qinprezo following its less than significant improvement in survival (1.4 months, p = 0.061) is in line with a history of denials for AML. However, the EMA has encouraged submission for AML patients over 60 where the results for Qinprezo (OS increased 2.1 months, HR=0.75, p=0.003) exceed previous AML approvals for Dacogen and Vidaza.

Longer term: The US, front-line and MDS

The data indicating efficacy of Qinprezo in patients over 60 could be used to design a new pivotal trial in the US or for front-line AML for this population, both of which we are currently predicting. Additionally, Sunesis has provided initial data from a Phase I/II investigator-sponsored trial suggesting efficacy in myelodysplastic syndrome (MDS), providing another path to the market.

A new type of BTK inhibitor

The protein BTK is a validated target for treatment of B-cell cancers following the success of Imbruvica (over \$1bn 2015 sales). However, 25% of patients progress on the drug, 80% due to a mutation to the protein BTK. Sunesis has developed a BTK inhibitor, SNS-062, with a novel binding mode effective in the mutant BTK. It is currently in a healthy volunteer study and expected to enter Phase I/II at YE16.

Valuation: \$150.1m or \$1.74 per basic share

We value Sunesis at \$150.1m or \$1.74 per basic share (\$1.41 per diluted share) based on a risk-adjusted NPV analysis. We predict the company will need \$95m in additional financing to reach profitability. We expect to update our valuation following clinical advancement of the early-stage pipeline and potential Qinprezo approval in late 2016, as well as updates with clinical readouts of SNS-062 and other programs.

21 April 2016

38.6

Price	US\$0.55
Market cap	US\$48m

Shares in issue 86.5m
Free float (%) 47.0
Code SNSS
Primary exchange NASDAQ
Secondary exchange N/A

Share price performance

Net cash (\$m) at 31 December 2015



Business description

Sunesis Pharmaceuticals is a pharmaceutical company focused on oncology. The lead asset is Qinprezo, a chemotherapy for AML in the approval process in the EU. The company has also developed SNS-062, a BTK inhibitor for CLL for Imbruvica refractory patients currently in Phase I.

Next events	
TAK-580 Phase Ib/II results	H216
SNS-062 Phase I start	Q416-Q117

H117

Final EMA decision

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Investment summary

Company description: Market ready with an early stage bench

Sunesis is an oncology company focused on the development of novel small molecule therapeutics that was incorporated in 1998. The company had an IPO in 2005 and has raised \$570m in financing to date. It has approximately 35 employees, half of whom are in development. There are four programs at Sunesis, the most advanced of which is Qinprezo (vosaroxin) for acute myeloid leukemia, which was initially licensed from Sumitomo Dainippon in 2003. The drug failed to meet its primary endpoint in its registration trial, but there was efficacy suggested in various subgroups. The company is seeking European approval because other AML treatments have been approved with similar results. The company has three other cancer drugs in development, each designed to be effective in traditionally problematic patient populations. SNS-062 is a BTK inhibitor similar to Imbruvica, but with the potential to work in Imbruvica resistant patients, which constitute 25% or more of those treated with the drug and this number is expected to increase with more patients on the drug longer. Sunesis is enrolling healthy volunteers for a Phase Ia study and plans to file an IND and start a Phase I/II cancer study in 2016. Sunesis is also developing SNS-229, a preclinical pan-cancer inhibitor of PDK1 that may work in resistant populations (IND submission by YE16), and TAK-580, a pan-Raf inhibitor for solid tumors licensed to Takeda (Phase Ib/II results H216).

Valuation: \$150.1m or \$1.74 per basic share

Using a risk-adjusted NPV model, we value Sunesis at \$150.1m or \$1.74 per basic share (\$1.41 per diluted share). Our valuation is based on the assumption that Sunesis will license Qinprezo in EU and US territories, and internally commercialize SNS-062 and SNS-229 in the years 2020 and 2021 respectively. We currently see a high probability (60%) of approval for Qinprezo in the EU for relapsed and refractory AML, and approval there is essential to support continued development, but we see SNS-062 as the highest potential revenue stream in the long term (\$605m peak sales).

Financials: \$46m in cash

Sunesis ended 2015 with \$46m in cash and equivalents. We project that Sunesis will need \$95m in additional cash before becoming cash flow positive in 2021 (when we assume \$87.5m in approval and sales milestones), but that a portion of this should be provided by milestone and upfront payments associated with the partnering of Qinprezo in Europe and the development of TAK-580. We predict a net cash burn of \$39m in 2016, with significant increases starting in 2018 with the advancement of the SNS-062 and SNS-229 clinical programs.

Sensitivities: Mix of early and late stage risks

Sunesis has a combination of risks due to its very early stage development pipeline and its potential near-term commercialization. Qinprezo is subject to regulatory risk, because although the EMA has approved AML drugs that missed their primary endpoints but showed signs of efficacy, there have been no approvals for relapsed and refractory AML. Also the improvement in median survival from 5.0 to 7.1 months (HR=0.75) in patients over 60 may not be significant enough to warrant intervention in this fragile population. There is substantial commercial risk because the market for relapsed and refractory AML is untested. The company's early stage programs are high potential but high risk due to lack of human data. Although both SNS-062 and TAK-580 are based on established mechanisms, they are targeting resistant populations, which is nontrivial. There is also substantial financial risk due to the \$95m in additional cash needed before profitability, which may result in substantial dilution. We predict that cash will be needed as soon as 2017. We have modelled a portion of this funding being offset by upfront and milestone payments, but this is contingent on the details of these agreements.



The times, they are a changin'

2016 could be a transformative year for Sunesis. The VALOR study of Qinprezo in AML did not reach its primary endpoints and the FDA subsequently provided guidance that it would not encourage an NDA. However, the focus has turned to European approval due to a more supportive regulatory policy that has in the past approved drugs for AML on the basis of data showing clinical benefit without achieving statistical significance in primary endpoints. Several subgroups were positive in the VALOR results, including patients over 60, which the EMA suggested for submission (other positive analyses were when patients were censored for stem cell transplant and in patients with previous relapses within one year). A Marketing Authorization Application (MAA) has been submitted to the EMA, and questions from the agency are expected in April 2016. The company hopes to have EMA approval in late 2016, depending on agency timing. Sunesis also has two early stage development programs that should all be in the clinic by early 2017. All of these drugs in early development are designed to have improved efficacy in certain difficult to treat populations. SNS-062 is a BTK inhibitor for chronic lymphocytic leukemia (CLL) in the same class as Imbruvica (AbbVie), but with potential efficacy in Imbruvica resistant patients. The drug is currently being studied in healthy volunteers and the company is targeting an IND submission and the start of a Phase I/II trial by the end of 2016. SNS-229 is a preclinical PDK1 inhibitor being investigated for solid and hematological tumors. PDK1 is a novel target that could have improved efficacy in tumors with PI3K and PTEN mutations, which are exceptionally common (30-50% of certain cancers). An IND should be submitted before the end of 2016. Lastly, Sunesis has out-licensed the Phase Ib/II pan-Raf inhibitor TAK-580 to Takeda. Pan-Raf inhibitors are a new class of drug that avoids the paradoxical enhancement of tumor growth in some patients that take B-Raf inhibitors.

Exhibit 1	: Sunesis p	ipeline				
Product	Indication	Class	Phase	Catalyst	Timing	Commercial advantage
Qinprezo (vosaroxin)	AML	Anticancer quinolone	MAA submitted	EMA response questions	April 2016	Designed to avoid cardiotoxicity present in other topo II inhibitors
SNS-062	CLL	BTK inhib.	Phase I	IND filing	2016	Non-covalent inhibitor effective in Imbruvica resistant tumors
SNS-229	Pan cancer	PDK1 inhib.	Preclinical	IND filing	Late 2016	Potential efficacy similar to PI3K inhibitors, resistant to PI3K, PTEN mutations
TAK-580	Solid tumors/ Melanoma	Pan-Raf inhib.	Phase I	Phase Ib data	H216	Avoids "paradoxical activation" present in B-Raf inhibitors, effective in Ras mutants
Source: Su	ınesis Pharma	aceuticals				

Qinprezo

Qinprezo is a novel anti-cancer quinolone derivative being investigated as a treatment for acute myeloid leukemia (AML). AML is a rapidly progressing hematologic cancer where abnormal white blood cell progenitors accumulate in the bone marrow, displacing normal blood cells. There were an estimated 12,000 new AML patients in the US in 2015.¹

Qinprezo's primary mechanism of action is the intercalation of DNA and the inhibition of topoisomerase II (topo II). Topo II inhibitors are a well understood class of compounds that derive their anticancer activity by inducing double-strand DNA breaks, which accumulate and induce apoptosis in the rapidly dividing cancer cells. However, like other chemotherapeutic agents, this activity is not limited to cancer cells and is associated with an array of toxic effects. The current standard of care for AML is the so called 7+3 regimen, which involves the alternating infusion of cytarabine and one of a number of different anthracycline topo II inhibitors (daunorubicin, mitoxantrone, etc). The 7+3 regimen has exceptionally good outcomes for the patients that can

National Cancer Institute.



withstand the treatment: patients under 60 have a 60-85% complete response (CR) rate, and a 30% five-year disease-free survival rate. However, the efficacy of the treatment declines dramatically in older and more complicated patients, with a five-year disease-free survival rate for those over 60 of only 5-10%. Part of the reason for worsening prognoses is the lower CR rate and higher number of treatment-related adverse events associated with the therapy. In particular the anthracyclines used in 7+3 uniformly have dose limiting cardiotoxicity. Although the precise mechanism underlying cardiotoxicity topo II inhibitors is unknown, the consensus is that the toxic reactive oxygen species (ROS) generated by the anthracycline core structure underlies the effect. In contrast to anthracyclines, the quinolone core of Qinprezo does not generate significant levels of ROS, and is therefore expected to result in significantly less heart damage.

In older or more compromised patients, doctors frequently forgo the 7+3 regimen in favor of gentler treatments such as low dose cytarabine (LoDAC) or hypomethylating agents (HMA). The primary alternative to chemotherapy is hematopoietic stem cell transplant (HSCT), although there are several limitations on its use. First, HSCT is typically given after induction of a complete remission on 7+3 or other chemotherapy. However, there is a 20-25% treatment related mortality rate associated with HSCT, which increases with age, limiting its use primarily to younger patients. Because of this, improvement in overall survival is limited to patients with bad cytogenetics and highly aggressive disease. HSCT is typically available to patients with a matched donor, such as a sibling. However, with these factors considered, the complete remission rate for patients following HSCT is 45-65% (subject to selection bias).

Exhibit 2: AML incidence and stratification			
Incidence (est. 2015)	Rate	EU	US
Total	100%	33,200	20,800
Over 60*	75%	25,000	15,700
Relapse (at 5 years)**	43%	14,400	9,000
Refractory**	27%	9,000	5,600
Relapsed/refractory over 60†	53%	17,600	11,000
Low risk***	34%	11,300	7,100
Intermediate risk***	46%	15,300	9,600
High risk***	20%	6,600	4,200
Intermediate or high risk over 60†	50%	16,500	10,300

Source: *Juliuson, G (2009) *Blood.* 113(18), 4179-4187, **Grimwade (2001) *Blood.* 98(5), 1312-1320, ***Valcárcel D (2012) *Cancer*, 118(2) 410-417, † Extrapolated from above data.

Approval for Qinprezo is currently being sought in Europe for individuals over 60 with relapsed and refractory AML. The relapsed and refractory market is large at 70% of patients, and individuals over 60 are typically unfit for HSCT. Based on our estimates, this market consists of approximately 17,600 patients in Europe. Qinprezo also has significant market potential as a front-line induction therapy in patients who are unlikely to benefit from 7+3. Patients are stratified into classes based on predefined criteria to reflect their risk of death from induction therapy. Those identified as highrisk represent 20% of all AML patients and 32% die from induction. Likewise, 46% of AML patients are intermediate-risk, of which 19% die from induction. Although many of these patients (especially intermediate risk) currently receive 7+3, this may be due to lack of viable alternatives. The company has stated that it intends to perform additional clinical trials and seek future approval for front-line therapy. Based on this guidance, we currently model the company will initially seek approval for front-line therapy for Europe and the US in intermediate- and high-risk patients over 60, as it has fewer of the factors that limit AML trial success (discussed below), showed significant efficacy in

² Cleveland Clinic.

Berthiaume JM, Wallace KB: Adriamycin-induced oxidative mitochondrial cardiotoxicity. Cell Biol Toxicol 23: 15-25, 2007

⁴ Hawtin RE, Stockett DE, Voreloxin is an anticancer quinolone derivative that intercalates DNA and poisons topoisomerase II. PLoS One. 2010 Apr 15;5(4):e10186.

Valcárcel D, et al (2012) A scoring system to predict the risk of death during induction with anthracycline plus cytarabine-based chemotherapy in patients with de novo acute myeloid leukemia. Cancer, 118(2) 410-417.



previous trials (discussed below) and still represents 50% of the available market (14,300 combined US and EU market).

The VALOR study

Qinprezo has been investigated in a single pivotal Phase III study for efficacy in first relapsed or refractory AML: the VALOR trial. This study built on previous Phase II data suggesting safety and efficacy inducing complete remissions (CR) when the drug is used as a front-line treatment monotherapy (25% CR rate in high-risk patents >60) and in combination with cytarabine in relapsed and refractory AML (28% CR). The VALOR trial sought to expand on this data by investigating the treatment of patients with Qinprezo in combination with intermediate-dose cytarabine in first relapse and refractory AML patients. The combination with intermediate-dose cytarabine was chosen due to a similar overall survival and higher tolerability compared to high-dose cytarabine. ⁶ The three-year randomized, double-blind study initiated in December 2010 enrolled 711 patients across 101 international sites with overall survival as the primary endpoint. The adaptive trial design enabled patients to receive between one to four cycles of treatment, depending on their response.

Exhibit 3: Overall survival from VALOR trial В 100 Median (95% CI) Patients censored (%) Median (95% CI) 7·5 (6·4-8·5) 6·1 (5·2-7·1) Vosaroxin plus cytarabi 6.7 (5.4-8.1) Placebo plus cytarabine Placebo plus cytarabine 33-5 5-3 (4-4-6-3) 0-87 (95% CI 0-73-1-02) HR 0.81 (95% CL0.67-0.97 0-061 (unstratified log-rank) 75 p=0-024 (unstratified log-rank) Vosaroxin plus cytarabii 0-024 (stratified log-rank) =0-027 (stratified log-rank) Placebo plus cytarabine 50 25 25 24 12 18 24 Time (months) С D Median (95% CI) 100 Patients censored (%) Median (95% CI) Vosaroxin plus cytarabine Placebo plus cytarabine 7-1 (5-8-8-1) Vosaroxin plus cytarabine 19·9 10·7 6-7 (4-6-8-7) Placebo plus cytarabin 5-0 (3-8-6-4) 0.75 (95% CL0.62-0.92) p=0.0030 (log-rank) p=0-039 (log-rank) Vosaroxin plus cytarabine Vosaroxin plus cytarabin Censored Censored Placebo plus cytarabine Overall survival (%) Overall survival (%) Placebo plus cytarabir Censored Censored 50 50 25 18 42 24 12 18 24 Time (months) Time (months)

Source: Modified from Ravandi F, Ritchie EK (2015) Lancet. 16(9), 1025-1036. Kaplan-Meyer curves of overall survival of patient from the VALOR clinical trial. A) All patients; B) Patients censored at stem cell transplant; C) Patients over 60; D) Patients with a previous early relapse.

> The median overall survival (OS) in the Qinprezo plus cytarabine arm was 7.5 months compared to 6.1 months in the placebo plus cytarabine (HR 0.87, 95% CI 0.73-1.02, unstratified log-rank p=0.061), missing the trial's primary endpoint. However, when the data was adjusted for the effects of the randomization criteria (age, prior treatments, etc) via a stratified log-rank analysis, the study achieved p=0.024, suggesting differential activity depending on these variables. A series of prespecified analyses shed some light on which of these stratifications are indicative of a clinical response. Patients censored on HSCT (n=711, OS benefit=1.4 months, HR=0.81, p=0.024, 30% and 29% of patients received HSCT in active and placebo arms) and patients over 60 (n=320, OS

Löwenberg B (2013) Sense and nonsense of high-dose cytarabine for acute myeloid leukemia. Blood. 121(1), 26-28.



benefit=2.1 months, HR=0.75, p=0.003) showed an increased treatment effect compared to the trial overall. Additionally, patients with an early previous relapse (90 days to one year after initiating their front-line treatment) were more responsive to Qinprezo (n=256, OS benefit=1.5, HR=0.77, p=0.039), whereas there was no difference in survival in patients with long previous remissions (p=0.96) or refractory patients (p=0.23).

Each of the subgroups that showed efficacy (advanced age, inappropriate for stem cell transplant, aggressive disease) are classes with poor initial prognoses. There are several potential explanations for why poor prognosis is correlated with an improved clinical effect. First, it is possible that younger and more fit patients were able to have more aggressive subsequent therapy following Qinprezo treatment including HSCT. The effect of subsequent therapies has consistently been a confounding factor in AML trials. The treatment effect of these therapies can begin to occlude that of the experimental drug with longer survival times and interject variability due to different treatments.

An alternative explanation is that the treatment effect in healthier populations is occluded by adverse reactions to the drug because they are alive longer to experience these reactions or their treatment effect is smaller. Serious adverse events (SAEs) were significantly higher in the Qinprezo arm of the trial (33% compared to 17% on placebo) as were deaths attributed to SAEs (14% vs 7%). However, the majority of these deaths (96% in both arms) occurred in the first 60 days, suggesting the longevity of the patients might not be in play. It should be noted, however, that organ damage, including cardiotoxicity, was not observed in the trial.

Despite the admittedly modest improvements in survival in this study, Qinprezo was demonstrably effective at inducing remissions. Approximately twice as many patients in the study achieved a CR (30% vs 16%, p<0.0001), and this was true across virtually every single subgroup that was examined.

Exhibit 4: 0	Complete rem	ission rates	from VALO	R study					
			CR			Combined CR CR/CRp/CRi*			
		Qinprezo + cytarabine	Placebo + cytarabine	Difference	p value	Qinprezo + cytarabine	Placebo + cytarabine	Difference	p value
Overall		30%	16%	14%	< 0.0001	37%	19%	18%	< 0.0001
By age years	<60	27%	21%	6%	0.24	35%	23%	12%	0.04
	≥60	32%	14%	18%	< 0.0001	38%	16%	22%	< 0.0001
By disease	Early relapse	28%	12%	15%	0.0024	35%	16%	19%	0.0004
status	Late relapse	53%	34%	19%	0.015	60%	36%	23%	0.0037
	Refractory	20%	11%	10%	0.021	28%	12%	16%	0.0007
By region	USA	28%	14%	13%	0.0032	35%	17%	18%	0.0002
	Outside USA	32%	18%	14%	0.0014	38%	20%	19%	<0.0001

Source: Ravandi F, Ritchie EK, Lancet Oncol. 2015 Sep;16(9):1025-36. Note: *Includes CR with incomplete platelet recovery (CRp) and CR with incomplete marrow recovery (CRi).

Can Qinprezo get approved?

Sunesis announced in July 2015 after speaking with the FDA and presenting its analysis of the VALOR data that the agency had guided against submitting a new drug application for Qinprezo until the company had gathered additional clinical efficacy data. This is consistent with the agency's strict stance with respect to novel AML treatments. Demonstrating efficacy to the standards of the FDA has been difficult in AML trials due to a host of issues. Because the prognosis is poor, patients may require multiple treatments beside the study drug during the course of a trial, clouding the clinical effect. Additionally, the agents that have been studied are generally significantly toxic, and improvements in disease status are often overshadowed by treatment related adverse events and low tolerability. As a result, there has only been a single approval for AML in the US in the past 20 years (Mylotarg), which was subsequently pulled from the market due to lack of treatment effect and toxicity. The company may be able to seek approval in the US following additional clinical trials. Sunesis has already stated its intention to target front-line AML and there are three ongoing



investigator-sponsored trials in front-line patients that could be used to inform future pivotal trial designs (Exhibit 5). Based on this guidance we have included as part of our model that the company will perform the necessary trials to seek US approval (for front-line therapy of intermediate- and high-risk patients over 60, and relapsed and refractory patients over 60).

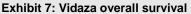
Exhibit 5: Investigator sponsored trials of	front-line AM	L		
Description	Trial no.	Stage	Sponsor	Target date
Qinprezo and cytarabine in untreated AML	NCT02658487	Phase II	Vanderbilt-Ingram Cancer Center	January 2019
Qinprezo and cytarabine in untreated AML over 60 years old	NCT02485353	Phase I	Indiana University School of Medicine	May 2017
Qinprezo and Dacogen in AML and high risk MDS	NCT01893320	Phase I/II	MD Anderson Cancer Center	July 2018
Source: Clinicaltrials.gov				

The regulatory environment in the EU is substantially different from the US, however, and during similar meetings with the EMA, Sunesis was encouraged to submit a marketing application for the use of Qinprezo in relapsed and refractory patients over 60. This is indicative of a different stance at the EMA with regards to AML, as it has historically been more pragmatic when considering applications for this and other indications where few treatment options exist. Two treatments for AML have been approved in Europe: Vidaza (Celgene) and Dacogen (Otsuka, Janssen). Both of these drugs were rejected by the FDA for AML but subsequently approved in Europe for very specific indications where there were indications of efficacy (Exhibit 6).

Exhibit 6: Europe AML treatment comparison							
	OS (moi	OS (months)		OS (months) HR p value		p value*	Description
	Treatment	Control					
Vidaza	10.4	6.5	0.85	0.101	Newly diagnosed patients, >65, >30% bone marrow blasts or 20-30% blasts with multilineage dysplasia		
Dacogen	7.7	5.0	0.82	0.108	Newly diagnosed patients, >65, intermediate or unfavorable cytogenetics		
Qinprezo**	7.1	5.0	0.75	0.003	Relapsed/Refractory, >60, all cytologies		

Source: Celgene, Eisai, Sunesis. Note: *Stratified log-rank. **Subset of VALOR suggested for approval by MAA.

The subset of the VALOR trial (patients over 60) that the EMA asked Sunesis to submit for approval has a substantially lower p value than the clinical trials that led to the approval of Vidaza and Dacogen, and we believe this positions the drug well for approval. Moreover, Sunesis will be seeking approval for relapsed and refractory AML, which will differentiate the drug from the two other treatments.



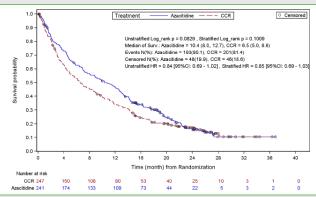
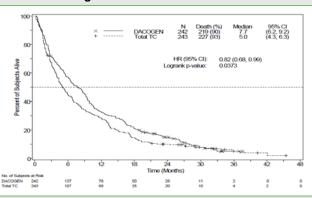


Exhibit 8: Dacogen overall survival



Source: Dacogen EMA public assessment report

The CHMP decision to approve Vidaza⁷ and Dacogen⁸ in both cases rested on analyses that corrected for confounding factors limiting the overall statistical significance of the studies. In both of the previous approvals, the CHMP cited analyses that took into account the subsequent therapies administered after the study drug. These studies were central to the approval of these drugs,

Source: Vidaza EMA public assessment report

Vidaza EMA public assessment report, page 40.

⁸ Dacogen EMA public assessment report, page 64.



because subsequent therapies are often the confounding factor that limits statistical significance in an AML study. Some of the VALOR data suggests that a similar analysis may be positive for Qinprezo (HSCT were an identified confounding factor, and treatment effect was weaker in healthier patients more fit for other therapies), but currently there is no direct read through whether such an analysis will be positive, or if the CHMP analysis will be made on the same basis. Despite this, we believe that the data from the VALOR trial compares favorably to that used in the previous approvals and EU approval is the most likely route to commercialization.

Because of the above factors, Sunesis has targeted EU approval of Qinprezo as its primary strategic goal. The company has submitted an MAA as of December 2015 and approval is expected as early as Q416 (although it could be delayed by up to a year if issues arise).

Competitive environment

It should be noted that although there are a small number of approved products for AML, this is an area of intense clinical development activity. There are currently no less than 109 ongoing clinical programs for AML, 12 of which are in Phase III (Exhibit 9). There are both a large number of drugs where AML is the primary indication and a large number of follow-on studies. The high degree of activity may lead to future approvals and market competition, but in the near term, there could be substantial competition for patients in clinical trials.

Of particular interest is the recent Phase III trial of Vyxeos (from Celator), a liposomal co-formulation of cytarabine and daunorubicin, the components of the 7+3 regimen. In March 2016, Celator released results demonstrating a 3.61-month improvement in survival (9.56 vs 5.95, HR=0.69, p=0.005) in a 309-patient trial comparing high-risk AML patients to 7+3. Currently the drug has only been tested in patients who have been deemed fit for 7+3, but the drug could reshape the treatment landscape if it is suitable for patients typically excluded from 7+3 or high-dose cytarabine treatment. The initial reports from the trial indicated a similar rate of adverse events to 7+3, but the increased efficacy may alter the risk-benefit calculation for marginal patients. This could limit the potential market for drugs like Qinprezo seeking approval specifically for these unfit patients.

Exhibit 9: Late-stag	e AML clinical programs		
Company	Drug	Phase	Method of Action
Agios, Celgene	AG-221	Phase III	IDH2 inhibitor
Astellas, Kotobuki	Gilteritinib (ASP2215)	Phase III	AXL and FLT3 inhibitor
Boehringer Ingelheim	Volasertib (BI 6727)	Phase III	PLK1 inhibitor
Celator	Vyxeos (CPX-351)	Phase III	Liposomal formulation of cytarabine and daunorubicin
Daiichi Sankyo	Quizartinib (AC220)	Phase III	FLT3 inhibitor
Daiichi Sankyo, Cyclacel	Sapacitabine (CYC682)	Phase III	Nucleoside analogue
Gamida Cell, Teva	StemEx, carlecortemcel-l	Phase II/III	Expanded cord blood
Janssen, Kura Oncology	Tipifarnib (zarnestra, R115777)	Phase III	Farnesyl transferase inhibitor
Novartis	Midostaurin (CGP 41251, PKC412)	Phase III	FLT3 inhibitor
Sanofi	Clolar, Evoltra, (clofarabine)	Phase III	Nucleoside analogue
Synta	Ganetespib (sta-9090)	Phase III	Hsp90 Inhibitor
Vernalis, CTI	Tosedostat (CHR2797, chr-2797)	Phase II/III	Aminopeptidase inhibitor
Source: Biocentury			

Qinprezo for MDS

An alternative path to commercialization is the approval of Qinprezo for myelodysplastic syndrome (MDS). MDS is a condition that is similar in AML in terms of pathology, but there are fewer abnormal blood cells in the bone marrow. There are approximately 10,000 to 15,000 new cases diagnosed in the US every year and 60,000 people living with the disorder. Although the symptoms of MDS are milder, if it is not managed, it can progress to AML. Treatments for MDS tend to be less aggressive than AML, although some subclasses of MDS are considered high risk and are treated similarly.

Ma X, (2012) Epidemiology of myelodysplastic syndromes. Am. J. Med. 125(s7), s2-5.



There has been marginally better regulatory success with MDS and there are four approved drugs in the US, including both Vidaza and Dacogen. There are currently three ongoing clinical trials studying Qinprezo in MDS (Exhibit 10), the nearest-term readout being final data from the University of Washington Medical Center sponsored trial of Qinprezo in combination with Vidaza. The exploratory trial started in December 2013 and will enroll up to 60 patients. Data released from the dose escalation portion of the trial in December 2015 showed 10/16 patients experienced a CR or an incomplete CR (normal marrow, but levels of blood cells not completely recovered). This compares favorably to Vidaza alone, which had a 15% response rate. The trial is currently in the dose expansion phase, with topline data expected in 2017.

Exhibit 10: Investigator sponsored trials o	f MDS			
Description	Trial no.	Stage	Sponsor	Target date
Qinprezo and Vidaza in MDS	NCT01913951	Phase I	Washington University School of Medicine	December 2016
Qinprezo in Intermediate to High Risk MDS after HMA failure	NCT01980056	Phase I/II	Weill-Cornell Medical College	October 2018
Qinprezo and Dacogen in AML and High risk MDS*	NCT01893320	Phase I/II	MD Anderson Cancer Center	July 2018
Source: Clinicaltrials.gov, Note: *Additionally listed	in Exhibit 5, from	nt-line AML t	rials.	

Intellectual property

Qinprezo has a number of protections that should ensure market exclusivity until the mid to late 2020s in the US and EU. The drug has an orphan designation from both the FDA and EMA, which would ensure seven and 10 years of market exclusivity respectively, but this is from the first approval, therefore potentially limiting the runway for potential follow-on indications such as front line treatment and MDS. The initial composition of matter patent for the drug expired in 2015, but method of use and formulation patents extend to 2027 in Europe and additional composition patents extend to 2030 in the US.

SNS-062

Sunesis is developing SNS-062 as a treatment for chronic lymphocytic leukemia (CLL), in particular for patients refractory to Imbruvica (ibrutinib). The treatment of B-cell malignancies has been an area of substantial investment and it has been transformed over the past decade by the development of new targeted drugs for these diseases. One of the greatest successes in this field was the development of Imbruvica by Pharmacyclics (acquired by AbbVie in May 2015, partnered with Janssen). The drug was approved in 2013 with accelerated approval following a three-year Phase III trial and it retails for approximately \$130,000. Imbruvica substantially improved the standard of care for relapsed and refractory CLL by more than doubling the survival rate for these patients (HR=0.43 vs ofatumumab at 18 months). Imbruvica is also approved in mantle cell lymphoma (MCL) and Waldenström's macroglobulinemia (WM). It had sales of over \$1bn for 2015, and sales are expected to increase significantly with the March 2016 approval of a label expansion to front-line CLL treatment.

Imbruvica was the first marketed drug to target Bruton's tyrosine kinase (BTK), a protein expressed in B-cells, and is important for their activation and maturation in response to antigen binding. When the antibody being expressed by a particular B-cell binds to a pathogen or foreign substance, this triggers the cell to continue expressing this antibody and multiply, such that sufficient antibodies are present to fight the invader. This pathway is frequently mutated in B-cell malignancies leading to the out-of-control proliferation of these cells. However, an interesting facet of BTK is that because it is present solely in leukocytes, it can be inhibited (or functionally absent as in the case of X-linked agammaglobulinemia) and patients are immune suppressed but otherwise phenotypically normal.

The development and treatment using Imbruvica is relatively recent and so the long-term effects on patients are still under investigation. As with other cancer therapies, certain patients are resistant to the drug and some develop resistance during the course of treatment. The precise mechanism of



this resistance is an area of active investigation, and a recent report identified a particular mutation to BTK (cysteine-481 to serine) is frequently present in resistant individuals. ¹⁰ This particular amino acid residue is critical because it forms an irreversible covalent bond with Imbruvica and is essential for the drug's potency. It is the position at which Imbruvica forms a covalent bond to BTK, and its mutation dramatically impacts the potency of the drug (Exhibit 11).

Exhibit 11: C	comparison of	Imbruvica an	d SNS-062 bi	nding to wild	type and mut	ant BTK
	Kinase inhibition Inhibition of activated BTK formation				ormation	
IC50 (nM)	BTK	Mutant BTK	Fold change	BTK	Mutant BTK	Fold change
Imbruvica	0.58	25.2	43.4	0.016	25.5	>1,000
SNS-062	2.9	4.5	1.6	0.57	0.8	1.4
Source: Sunce	ic					

Sunesis has developed a next-generation BTK inhibitor, SNS-062. Unlike Imbruvica, SNS-062 does not form a covalent bond with cysteine-481 of BTK, but retains significant binding affinity to both native and mutant forms of the enzyme. Moreover, it prevents the generation of activated BTK (auto-phosphorylated BTK, pBTK), in the presence of the mutant, whereas this effect is completely lost by Imbruvica. This positions SNS-062 as a potential treatment for Imbruvica resistant forms of the disease. Approximately 25% of relapsed and refractory patients treated with Imbruvica progress on the drug at 26 months, ¹¹ and the most recent report suggests the cysteine-481 mutation is present in approximately 80% of these remissions (leaving 20% of Imbruvica patients appropriate for SNS-062). ¹² The company has an ongoing Phase I healthy volunteer study in Belgium and intends to file an IND and initiate a Phase I/II study of the drug later in 2016.

Market and competitive environment

Sales of Imbruvica were \$754m for 2015 in the US. This represents a relatively low penetration of the 14,600 estimated new cases of CLL per year in part because the drug was only approved for relapsed and refractory CLL or those patients carrying the 17p chromosomal deletion. However, Janssen and AbbVie have received approval for a label extension to front-line CLL in March 2016, which should substantially increase the number of patients on the drug and consequently resistant patients. Additionally, patients who become resistant to Imbruvica during front-line treatment should be healthier and more fit to receive follow-up treatments.

Assuming that 20% of new CLL patients will develop a cysteine-481 mutation, this corresponds to a market of approximately \$380m in the US per year that patients remain on the drug. At the moment, there is little insight into the number of years that patients would be treated with SNS-062. With the current standard of care, survival times are very short following Imbruvica resistance.¹²

There are at least eight other BTK inhibitors in clinical development. Seven of these inhibitors form covalent bonds to BTK similar to Imbruvica, and therefore are susceptible to the same cysteine-481 mutation that leads to Imbruvica resistance. The only potential competitor in the Imbruvica resistance space is TP-4207 from private development stage company Tolero Pharmaceuticals. In contrast, entrance of the other BTK inhibitors could drive an expansion of the market and therefore more resistant individuals. Because they share the same cysteine-481 dependent mechanism, they should induce the same resistance as Imbruvica. We expect the drugs composition of matter patent (9,029,359) to provide market exclusivity through the early 2030s (2034 in our model, based on a five-year Hatch-Waxman extension).

JA Woyach, RR Furman (2014) Resistance mechanisms for the Bruton's tyrosine kinase inhibitor ibrutinib. NEJM. 370;24, 2286-94.

Byrd JC, et al. (2013) Targeting BTK with ibrutinib in relapsed chronic lymphocytic leukemia. N. Engl. J. Med. 369, 32-42.

Kami J. Maddocks, MD1; Amy S. Ruppert (2015) Etiology of Ibrutinib Therapy Discontinuation and Outcomes in Patients With Chronic Lymphocytic Leukemia. JAMA Oncol. 1(1): 80-87.



Drug	Company	Status	Lead indication	Binding mode
Imbruvica	AbbVie	Approved	CLL, MCL, WM	Covalent
Spebrutinib	Celgene	Phase II	Rheumatoid arthritis	Covalent
Acalabrutinib	Acerta	Phase I/II	CLL	Covalent
BGB-3111	BeiGene	Phase I	B cell lymphoma	Covalent
HM71224	Hanmi	Phase I	Rheumatoid arthritis	Covalent
ONO-4059	Ono	Phase I	B cell lymphoma	Covalent
PRN1008	Principia	Phase I	Pemphigus vulgaris	Covalent
HCI-1401	LSK BioPharma	Preclinical	CLL	Covalent
SNS-062	Sunesis	Preclinical	CLL	Non-covalent
TP-4207	Tolero	Preclinical	CLL	Non-covalent

SNS-229

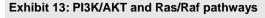
The receptor tyrosine kinase (RTK) signaling pathway has been central to the development of targeted cancer therapies for the past two decades. RTKs are a class of protein that respond to signals from growth factors and other signaling molecules, but mutations in this pathway can lead to a constitutive growth signal that is characteristic of cancer. Drugs have been developed targeting the receptor itself (for instance Herceptin targeting HER2), as well as the downstream effectors of RTKs in the so-called PI3K/AKT pathway, for instance PI3K (Zydelig) and mTOR (Torisel). The RTK pathway is central to the pathology of a wide array of different cancer types, as evidenced by the indications this class of drug has been approved for in both solid tumor and hematologic malignancies. One of the multiple downstream pathways from RTK is the PI3K/AKT pathway, which has been a topic of considerable development interest due to its role in promoting cancer cell survival and metastasis.

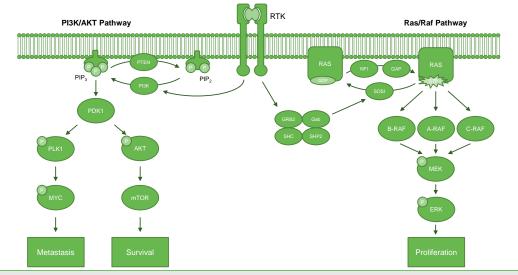
Sunesis has developed SNS-229 as an inhibitor of phosphoinositide dependent kinase 1 (PDK1), a previously unstudied target in the PI3K/AKT pathway. PDK1 is an effector of PI3K, and therefore it is reasonable to expect an efficacy profile similar to PI3K inhibitors like Zydelig. Because the RTK pathway is implicated in such a broad array of cancers, SNS-229 could potentially have many applications. However, the drug would be uniquely effective in malignancies where PI3K or PTEN is frequently mutated such as breast cancer (27% PI3K mutation frequency), or endometrial cancer (38% PTEN mutation frequency). In these cases a PDK inhibitor could potentially limit the effect of these mutations as it is the immediate downstream effector of these proteins. A potential risk to this program is opportunistic infections among patients, considering that inhibition of this pathway by Zydelig is associated with this risk.

There are no other known PDK1 inhibitors in development. Sunesis is currently in preclinical studies, which should enable the company to file an IND by the end of 2016. The drug was initially developed in a collaboration with Biogen Idec, whose rights were acquired by Takeda. Sunesis will owe royalties and \$9.2m in development milestones to Takeda for these rights. It is protected by composition of matter patent 8,778,977.

¹³ COSMIC.







Source: Edison Investment Research

TAK-580

There has been substantial success recently developing and getting approval for inhibitors of the oncogene B-Raf. There are currently three B-Raf targeted medications approved in the US (Nexavar, Bayer, \$1.01bn worldwide sales in 2015; Zelboraf, Roche, \$220m; Tafinlar, Novartis, \$453m) and at least four others in development. B-Raf is a very common oncogene that is mutated in 20% of cancers. When mutated it activates a pathway that triggers uncontrolled growth of cells.

However, a major limiting factor in the efficacy of B-Raf inhibitors is that they can have a detrimental effect when a mutation in the upstream signaling protein Ras is mutated. Cancers with a Ras mutation have a very similar phenotype to B-Raf mutations and activate the same pathway, but the signal is transduced through all three Raf isoforms (A-Raf, B-Raf, and C-Raf aka Raf1). The presence of a B-Raf inhibitor paradoxically enhances this response by encouraging the association of B-Raf with other isoforms. Because Ras mutations are exceptionally common in certain cancers (eg 34% of colon cancer, 57% of pancreatic cancer), the potential application for B-Raf inhibitors is limited to only certain cancer indications where paradoxical activation is not an issue.

TAK-580 was developed as a pan-Raf inhibitor by Sunesis and inhibits all Raf isoforms, therefore preventing the activation of the pathway even in the presence of Ras mutations. The drug was developed in collaboration with Biogen Idec and licensed to Takeda. It is currently in a Phase Ib/II trial as a monotherapy and in combination for the treatment of solid tumors, with an estimated completion date of June 2016. It is also in a Phase I dose expansion trial started in 2011 originally scheduled to conclude in December 2015, but the reason for the length of the trial and lack of results is currently uncertain. Eli Lilly is currently the only other major pharmaceutical company with a pan-Raf in clinical trials (Phase I). It is protected by composition of matter patent 8,802,657.

Sensitivities

Sunesis has a set of sensitivities indicative of its combination of a registration product and several products in early development. Although a European approval appears to be the path of least resistance for Qinprezo, there remains a significant amount of regulatory risk. The previous EMA approvals of Vidaza and Dacogen were for front-line treatment of AML, whereas Qinprezo will be seeking approval for relapsed and refractory AML, which no drug has been approved for. Taking



these factors into consideration, we have assigned a 60% probability of approval by the EMA rather than a typical 80-90% probability for a compound at this stage. Also, if Qinprezo is approved by European authorities, there remains substantial commercial risk. A large factor in the commercial success of Qinprezo will be the ability of Sunesis to find an equitable European partner. Sunesis owes royalties to both RPI Finance Trust (6.75%) and Sumitomo Dainippon (undisclosed, assumed at 3% for our forecasts) on Qinprezo limiting its profit potential even in the event of a successful launch. Additionally, there has never been an approved product for relapsed and refractory AML, and the market is untested. Doctors may elect to move to palliative care due to the exceptionally poor prognosis of these patients. An expansion to front-line AML or a second attempt at US approval will require additional clinical studies with the associated expense in capital and time. The time to capitalize on a front-line indication in Europe is limited because the orphan exclusivity will start with a relapsed/refractory approval (and the composition of matter patent has expired). We have assigned a 40% probability of approval in the EU for front-line therapy, and 30% and 20% probability of approval in the US for relapsed/refractory and front-line therapy following additional trials with a total clinical cost of \$24m in our models.

The remainder of the Sunesis pipeline is very early stage, and carries the associated clinical risk. We see the greatest profit potential for SNS-062 because it is wholly owned by Sunesis, it is based on a mechanism with established efficacy, and it is substantially differentiated from competitors. However, even with the established mechanism of action, we predict a 10% probability of approval considering the exceptionally low success rate for development of small molecule targeted oncology drugs and the lack of efficacy data in humans. Moreover, there is a high degree of uncertainty surrounding the market of Imbruvica refractory patients, considering the eventual size of this population is largely unknown at this point. Additionally, the survival for these patients is typically measured in months, presenting issues initiating them on a new therapy. The TAK-580 and SNS-229 programs, while principled in design are largely untested, and we assign probabilities of approval of 15 and 5% respectively.

The spending associated with these development programs carries a substantial financial risk. The company is currently burning over \$40m per year, half of which is due to SG&A expenses, and high for a non-commercial company. We predict that the company will become cash flow positive in 2021. This factors in a 30% royalty on Qinprezo in Europe and pricing based on Vidaza as well as milestones on Qinprezo and TAK-580. We predict that the company will need to seek \$95m in additional funding, which presents a substantial dilution risk at current valuations. These costs could be at least partially offset with additional licensing agreements for SNS-062 and SNS-229, but this would have a substantial impact on our revenue predictions and valuation for these assets.

Valuation

Using a risk-adjusted NPV model, we value Sunesis at \$150.1m or \$1.74 per basic share (\$1.41 per diluted share). We have assumed that the company will seek a partner or partners for commercialization of Qinprezo in Europe and the US, in which Sunesis will remain responsible for future development activities needed for US approval and label expansions to frontline AML and MDS. We have modelled a total of \$24m in clinical trial costs for AML and \$18m for MDS. In exchange we have included an expected royalty of 30% of net sales and a total of \$160m in milestones spread between the different indications and territories (\$20m upfront, \$10m per approval per indication, \$80 in sales based milestones). We have estimated a royalty for TAK-580 of 15% and \$57.5m in development milestones, as reported by the company. We expect the royalty streams from Qinprezo to be able to support the internal commercialization of SNS-062 and SNS-229 in 2022. This timeline is based on other accelerated approval timelines (for instance Imbruvica was approved following a single three-year Phase III). We have assumed initial commercialization of TAK-580 and SNS-229 in melanoma and breast cancer respectively. The probability of success



for each clinical asset is predicted based on Edison research principles, and an analysis of the underlying asset. In all cases, our valuations of individual assets include associated costs (R&D, SG&A). Additional costs that are shared or not attached to an individual program are risk adjusted and recorded as "unallocated costs." These costs include general and administrative expenses, changes in working capital, and research activities not attached to individual programs. We expect our valuation to change significantly with further EMA and FDA feedback on Qinprezo to reflect the probability of approval in these regions. Additionally, we expect to adjust our valuation as we learn more about the details of future trials for SNS-062 and SNS-229.

Development Program	Clinical stage	Expected Commercialization	Prob. of success	Launch year	Launch Pricing (\$, WAC)	Peak sales (\$m)	Patent/ Exclusivity Protection	Royalty/ Margin	rNPV (\$m)
Qinprezo, Rel/Ref AML EU	MAA submitted	Partnered	60%	2017	53,000	190	2027	30%	\$57
Qinprezo, Frontline AML EU	Phase III	Partnered	40%	2021	57,000	220	2027	30%	\$20
Qinprezo, MDS EU	Phase I/II	Partnered	30%	2021	57,000	152	2027	30%	\$8
Qinprezo, Rel/Ref AML US	Phase III	Partnered	30%	2021	82,000	175	2028	30%	\$11
Qinprezo, Frontline AML US	Phase III	Partnered	20%	2021	82,000	269	2028	30%	\$12
Qinprezo, MDS US	Phase I/II	Partnered	25%	2021	82,000	174	2028	30%	\$9
TAK-580	Phase lb	Licensed to Takeda	15%	2021	138,000	727	2032	15%	\$21
SNS-062	Preclinical	Proprietary	10%	2022	152,000	605	2034	45%	\$36
SNS-229	Preclinical	Proprietary	5%	2022	101,000	320	2031	44%	\$5
Unallocated costs (discovery p	orograms, administr	rative costs, etc.)							(\$69)
Total									\$112
Net cash and equivalents (Q4	15) (\$m)								\$38.6
Total firm value (\$m)									\$150.1
Total basic shares (m)									86.5
Value per basic share (\$)									\$1.74
Convertible Pref stock (m)									20.2
Total diluted shares									106.7
Value per diluted share									\$1.41

Financials

Sunesis reported a loss of \$36.7m for 2015 and ended the year with \$46.4m in cash, following a \$25m equity offering in December 2015 at \$0.84 per share with an additional \$18.6m in proceeds from the sale of equity from an at-the-market account in 2015. The company signed a \$15m loan agreement in April 2016 (LIBOR+8.54%, 48 month term) with the stated aim of refinancing their existing \$7.8m in debt and supporting operations to Q217. We currently model R&D spending to remain steady at \$23m for 2016 and to increase in 2017 to \$28m with advancement of the Qinprezo, SNS-062 and SNS-229 clinical programs. We forecast \$14m in SG&A spending for 2016 and 2017 respectively, which is a \$5m reduction from 2015 spending, based on guidance we have received from management. We forecast that the company will be cash flow positive in 2021 contingent on Qinprezo and TAK-580 milestones (\$87.5m in our current model: \$37.5m for TAK-580 approval, \$50m in Qinprezo approval and sales milestones), but will require \$95m in additional capital before these milestones are forecast in 2021. We have recorded financing as illustrative long-term debt in our model (\$30m in 2017, \$30m in 2018, and \$35m in 2020), although if the company seeks financing on the equity markets, these raises could result in significant dilution. All of the above assumptions are contingent on the details of licensing agreements for Qinprezo and the company's ability to source these agreements and achieve approval in Europe, as well as EMA approval.



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Cash 39,293 42,981 46,430 19,260 Other 1,199 1,223 558 558 Current Liabilities (25,858) (19,395) (12,728) (2,131) Creditors (16,840) (10,138) (4,894) (2,131) Short term borrowings (9,018) (9,257) (7,834) 0 Long Term Liabilities (12,737) (2,563) (610) (15,000) (6 Long term borrowings (9,025) 0 0 (15,000) (7 Long term liabilities (3,712) (2,563) (610) 0 0 Net Assets 1,930 22,288 33,664 2,693	Stocks	C	0	0	0	(
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	9					
Closing net debt/(cash) (374) (223) 1,479 Closing net debt/(cash) (33,724) (38,596) (4,660)						35,886

Source: Edison Investment Research, company reports. Note: *Corresponds to the \$15m debt agreement signed in April 2016 and \$30m in illustrative debt.



Contact details

395 Oyster Point Boulevard Suite 400 South San Francisco, CA 94080 USA +1 650 266-3500

Revenue by geography

N/A

Management team

www.sunesis.com

CEO: Daniel N Swisher, Jr

Since December 2003, Daniel Swisher has served as chief executive officer and a member of the Sunesis board of directors, and president since August 2005. He joined the company in 2001 and he served as chief business officer and chief financial officer until 2003. Prior to joining Sunesis, Mr Swisher served in various management roles, including senior vice president of sales and marketing for ALZA Corporation from 1992 to 2001. He serves as chairman of the board of Cerus Corporation and as a member of the board of Corcept Therapeutics Inc.

VP Global Oncology Operations: Parvinder S Hyare

Parvinder S Hyare joined Sunesis on July 31 2014 as vice president of market access. Prior to joining Sunesis, Mr Hyare was executive director, managed markets & reimbursement at AMAG Pharmaceuticals, Inc. and previously served as national sales director for that company from 2008-14. Prior to AMAG, Mr Hyare was region business director and also served in various management roles across sales and managed markets for Ortho Biotech, a division of Johnson & Johnson, from 2000-08.

CFO: Eric H Bjerkholt

Eric H Bjerkholt joined Sunesis as chief financial officer in 2004. From January 2002 to January 2004, Mr Bjerkholt served as senior vice president and chief financial officer at IntraBiotics Pharmaceuticals, Inc., a pharmaceutical company focused on the development of antibacterial and antifungal drugs. Mr Bjerkholt was a co-founder of LifeSpring Nutrition, Inc., a privately held nutraceutical company, and from May 1999 to March 2002 served at various times as its chief executive officer, president and chief financial officer.

VP Technical Operations: Gene Jamieson

Gene C Jamieson joined Sunesis in December 2010 as executive director of CMC and is now vice president of technical operations. Mr Jamieson joined Sunesis from AllyCMC, a CMC consulting services company, where he served as principle partner from 2009-10. Previously, he was executive director of product development at Jazz Pharmaceuticals, Inc. and Vice president, pharmaceutical sciences, at NeurogesX, Inc. Mr Jamieson has developed diverse products with such companies as Centaur Pharmaceuticals, Nycomed Salutar Inc. and Novartis.

Principal shareholders	(%)
Great Point Partners	10.93
NEA Management	10.32
Palo Alto Investors	9.24
Fidelity Investments	6.74
Biotech Value Fund	6.33
Baker Brother Advisors	5.90
The Vanguard Group	2.84

Companies named in this report

AbbVie (ABBV), Janssen (JNJ), Celgene (CELG), Novartis (NVS), Bayer, (BAYN), Roche (RHHBY)

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