

COMPANY NOTE | EQUITY RESEARCH | August 17, 2012

Healthcare: Pharmaceuticals

Synergy Pharmaceuticals, Inc. | SGYP - \$4.62 - NASDAQ | Buy

Quarterly Update

Estimates Changed

Stock Data	
52-Week Low - High	\$3.17 - \$7.34
Shares Out. (mil)	65.81
Mkt. Cap.(mil)	\$304.0
3-Mo. Avg. Vol.	312,172
12-Mo.Price Target	\$12.00
Cash (mil)	\$47.6
Tot. Debt (mil)	\$0.0

—2011—	—20	—2013E—				
	Curr	Prev	Curr	Prev		
A(80.0)	(0.13)A	(0.13)A	-	-		
(0.10)A	(0.17)A	(0.13)E	-	-		
(0.01)A	(0.14)E	(0.14)E	-	-		
(0.12)A	(0.14)E	(0.15)E	-	-		
(0.30)A	(0.58)E	(0.55)E	(0.45)E	(0.48)E		
NM	NM	NM	NM	NM		
	(0.08)A (0.10)A (0.01)A (0.01)A (0.12)A (0.30)A	Curr (0.08)A (0.13)A (0.10)A (0.17)A (0.01)A (0.14)E (0.12)A (0.14)E (0.30)A (0.58)E	Cur Prev (0.08)A (0.13)A (0.13)A (0.10)A (0.17)A (0.13)E (0.01)A (0.14)E (0.14)E (0.12)A (0.14)E (0.15)E (0.30)A (0.58)E (0.55)E	Curr Prev Curr (0.08)A (0.13)A (0.13)A - (0.10)A (0.17)A (0.13)E - (0.01)A (0.14)E (0.14)E - (0.12)A (0.14)E (0.15)E - (0.30)A (0.58)E (0.55)E (0.45)E		

Revenue (\$ millions)										
Yr Dec	—2011—	—2012E—	—2013E—							
		Curr	Curr							
1Q	0.0A	0.0A	-							
2Q	0.0A	0.0A	-							
3Q	0.0A	0.0E	-							
4Q	0.0A	0.0E	-							
YEAR	0.0A	0.0E	0.0E							



SGYP: 2Q12 Update - Plecanatide Fully Enrolled, 4Q12 Data the Catalyst

SGYP reported an uneventful 2Q12. The main catalyst for shares is phase 2b/3 clinical data for plecanatide to treat constipation (targeted for 4Q12). We maintain our Buy rating as we expect this data to be positive.

- 2Q12 results (10-Q filed) Uneventful. SGYP reported no 1Q12 revenues as expected. The \$0.04 higher EPS loss of \$0.17 was a result of higher R&D (hurt EPS by ~\$0.02) and non-cash financial instrument adjustments (hurt EPS by ~\$0.02). We viewed the results as not particularly material.
- Pipeline update Plecanatide phase 2b/3 fully enrolled. The company announced that the phase 2b/3 plecanatide study for the treatment of chronic idiopathic constipation (CIC) achieved its enrollment target of 880 patients on August 13, 2012. This is in-line to ahead of our targets, and data is expected in 4Q12 (post 12 week follow-up, we target December). This is the key catalyst for shares, in our opinion. Other programs remain on track with SP-333 (for ulcerative colitis, we believe an underappreciated compound) expected to have phase 1 data in 4Q12, and plecanatide for IBS-C targeted to enter phase 2 trials in 4Q12.
- Model changes. Minimal changes from prior expectations. We upped shares outstanding by ~4.7 million shares to reflect the Callisto merger/ resolution.
- Maintain Buy rating. We continue to view plecanatide as an undervalued asset within the gastrointestinal arena. We believe that this compound could have similar efficacy to FRX/IRWD's linaclotide with potentially less diarrhea side effects.

Intraday Price: \$4.78, 11:28AM ET 8/17/2012

VALUATION

We value shares of Synergy Pharmaceuticals based on a sum-of-the-parts analysis. The main driver is plecanatide at \$10/share with lesser contribution from SP-333 (\$1.50/share) and future indications/technology value (\$0.50/share).

Impediments to our price target include, but are not limited to, unexpected adverse clinical outcomes, inability to attain a partnership, and inability to raise additional financial resources on reasonable terms.

RISKS

In addition to the risks inherent in drug development and marketing, key investment risks for Synergy Pharmaceuticals include:

- Clinical risk We anticipate positive clinical data for the plecanatide program. Further, the phase 2/3 clinical data is longer in duration, which adds risk beyond the early stage trials. Failure of this data to match expectations could have a material adverse impact on company shares.
- Partnership risk We expect that Synergy will outlicense, partner, or sell its clinical programs prior to
 product launch. Failure to monetize these assets on favorable terms could have a material adverse impact
 on company shares.

COMPANY DESCRIPTION

Synergy Pharmaceuticals, Inc., a development stage biopharmaceutical company, focuses on the development of drugs to treat gastrointestinal disorders and diseases. It is developing plecanatide that completed Phase 2a clinical trial and is undergoing a Phase II/III clinical trial for the treatment chronic idiopathic constipation and constipation-predominant irritable bowel syndrome; and SP-333, a second generation GC-C receptor analog, which is in pre-clinical stage for the treatment of gastrointestinal inflammatory diseases, such as ulcerative colitis. The company is headquartered in New York, New York.

QUARTERLY VARIANCE ANALYSIS

(values in 000's	Actual	Estimate	Variance	
except per share data)	2Q12	2Q12		Comments
Revenues:				
Total revenue	-	-	-	P2/3 trial fully enrolled
R&D	7,626	6,500	1,126	Higher variance, \$0.02 EPS downside
SG&A	1,918	1,750	168	
Operating income (loss)	(9,545)	(8,250)	(1,295)	
Other income	304	300	4	
FV of fin instruments	(1,317)	-	(1,317)	Non-cash, \$0.02 EPS downside
Pretax income	(10,558)	(7,950)	(2,608)	
Taxes	-	-	-	
Net income	(10,558)	(7,950)	(2,608)	
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EPS	(\$0.17)	(\$0.13)	(\$0.04)	From R&D and derivatives
FD Shares outstanding	60,416	60,000	416	

Source: ROTH Capital Partners and company reports

SYNERGY PHARMACEUTICALS, INC.

Earnings model (values in 000's)	FY					FY					FY	FY	FY	FY	FY	FY	FY	FY	FY
_agooao. (.a.aoo coc o,	2010 A	1Q11A	2Q11A	3Q11A	4Q11A	2011 A	1Q12A	2Q12A	3Q12E	4Q12E	2012 E	2013 E	2014 E	2015 E	2016 E	2017 E	2018 E	2019 E	2020 E
Revenues:																			
Plecanatide US revenues														25,000	100,000	190,000	300,000	375,000	450,000
SP-333 end revenues																	47,299	99,384	156,620
Plecanatide royalties														7,500	30,000	57,000	90,000	112,500	135,000
SP-333 royalties																	11,825	24,846	39,155
Total revenue	-	-	-	-	-	-	-	-	-	-	-	-	-	7,500	30,000	57,000	101,825	137,346	174,155
R&D	9,559	1,478	2,354	3,883	5,703	13,419	5,338	7,626	7,750	8,000	28,714	29,000	32,500	25,500	21,500	20,500	21,500	22,000	22,000
G&A	6,562	1,898	1,524	1,103	2,222	6,746	1,731	1,918	1,950	2,250	7,850	7,750	8,000	8,250	8,750	9,500	10,750	11,500	12,000
Total expenses	16,121	3,376	3,879	4,986	7,925	20,165	7,069	9,545	9,700	10,250	36,564	36,750	40,500	33,750	30,250	30,000	32,250	33,500	34,000
Operating loss	(16,121)	(3,376)	(3,879)	(4,986)	(7,925)	(20,165)	(7,069)	(9,545)	(9,700)	(10,250)	(36,564)	(36,750)	(40,500)	(26,250)	(250)	27,000	69,575	103,846	140,155
Other income	494	24	20	20	362	363	-	256	75	75	406	400	425	450	475	500	525	550	575
nterest and inv income	108	(12)	-	-	26	90	39	48	200	175	462	400	100	-	-	-	-	-	- 1
nterest expense	-	-	-	-	-	(12)	-	-	-	-	-	-	-	-	-	-	-	-	
Change in FV of fin instruments	297	(339)	(698)	4,383	1,911	5,257	8	(1,317)	-	-	(1,309)	-	-	-	-	-	-	-	- 1
Pretax income																27,500	70,100	104,396	140,730
Taxes																1,375	7,010	14,093	35,886
Tax rate																5%	10%	14%	269
Net loss	(15,222)	(3,702)	(4,557)	(583)	(5,626)	(14,467)	(7,023)	(10,558)	(9,425)	(10,000)	(37,006)	(35,950)	(39,975)	(25,800)	225	26,125	63,090	90,303	104,844
EPS	(0.34)	(0.08)	(0.10)	(0.01)	(0.12)	(0.30)	(0.13)	(0.17)	(0.14)	(0.14)	(0.58)	(0.45)	(0.50)	(0.30)	0.00	0.30	0.70	1.00	1.15

Source: ROTH Capital Partners and Company reports

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Synergy Pharmaceuticals Pipeline analysis 2011A 2012E 2013E 2014E 2015E 2016E 1QA 2QA 3QA 4QA 1QA 2QA 3QE 4QE 1QE 2QE 3QE 4QE 1QE 2QE 3QE 4QE 1QE 2QE 3QE 4QE 1QE 2QE 3QE 4QE Plecanatide (SP-304) For CIC Phase 2/3 CIC Pivotal Completed enrollment 8/13/2012, data in 4Q12 P3 CIC Pivotal NDA PARTNER OR M&A NDA LAUNCH Approval/Launch Scenario 2 (another trial) DATA >300 patients IBS-C, P2 SP-333 For ulcerative colitis IND DATA Phase 1 Phase 1/2 program Phase 2b Phase 3 program

Source: ROTH Capital Partners Forecasts

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47,587 0.79

Net cash

Per share

Synergy Pharmaceut	icals			
Balance Sheets				
December Year				
values in \$000's				
	2010	2011	1Q12	2Q12
ASSETS				
Cash and equivalents	1,708	13,245	6,123	43,577
Prepaid and other	998	1,063	1,618	1,409
Total current assets	2,705	14,308	7,741	44,985
Property and equip, net	8	6	5	2
Avail for sale, LT				4,011
Security deposits	14	14	14	20
Due from controlling shareholder	1,674	1,541	1,820	1,937
TOTAL ASSETS	4,401	15,870	9,580	50,955
LIABILITIES AND SHAREHOLDERS	EQUITY			
Accounts payable	2,961	1,416	2,084	1,154
Accrued expenses	2,051	1,331	965	3,765
Total current liabilities	5,012	2,747	3,050	4,920
Derivatives at FV	3,488	3,325	3,317	4,804
Total Liabilities	8,500	6,072	6,367	9,723
Shareholders equity				
Shareholders equity Preferred stock	-	_	_	_
, ,	- 5	- 5	- 5	- 7
Preferred stock	- 5 51,038	- 5 79,401	- 5 79,839	- 7 128,415
Preferred stock Common stock	•	•	•	•
Preferred stock Common stock APIC	51,038	79,401	79,839	128,415

Source: Company reports

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4,903 1,935

Synergy Pharmaceuticals

Statement of cash flows December year values in \$000's

	2010	2011	1Q12	2Q12	
OPERATING ACTIVITIES					
Net loss	(15,221)	(14,467)	(7,023)	(17,581)	Obligations
Adjustments:					Less than 1 year
Deprec and amort	2	2	0	1	1-3 years
Stock comp	712	822	438	792	3-5 years
Loss (gain) on asset sales	-	-	-	2	More than 5 yrs
Change in FV of derivatives	(297)	(5,257)	(8)	1,149	
Changes in A and L:					
Accounts payable and accr exp	3,286	(2,265)	303	2,173	
Prepaids and other CA	64	(66)	(554)	(351)	
CASH FROM OPERATIONS	(11,454)	(21,231)	(6,843)	(13,815)	
NVESTING ACTIVITIES					
oans from related parties	(702)	133	(278)	(395)	
Change in avail for sale	_		` <i>_</i>	(20,000)	
CASH FROM INVESTING	(702)	133	(278)	(20,395)	
FINANCING ACTIVITIES					
ssuance of CS from priv placement	7,179	34,369	-	48,392	
Varrants, other	(468)	(1,733)	<u> </u>	=	
CASH FROM FINANCING	6,711	32,636	-	48,392	
Change in cash	(5,445)	11,537	(7,122)	14,182	
Cash at beginning of year	7,153	1,708	13,245	13,245	
Cash at end of the year	1,708	13,245	6,123	27,427	
Source: Company reports					

Source: Company reports

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Within the last twelve months, ROTH has received compensation for investment banking services from Synergy Pharmaceuticals, Inc..

ROTH makes a market in shares of Synergy Pharmaceuticals, Inc. and as such, buys and sells from customers on a principal basis.

Within the last twelve months, ROTH has managed or co-managed a public offering for Synergy Pharmaceuticals, Inc..

On September 28, 2010, ROTH changed its rating system in order to replace the Hold rating with Neutral. On May 26, 2011, ROTH changed its rating system in order to incorporate coverage that is Under Review.



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

IB Serv./Past 12 Mos. as of 08/17/12

Rating	Count	Percent	Count	Percent
Buy [B]	213	72.70	78	36.62
Neutral [N]	66	22.53	4	6.06
Sell [S]	2	0.68	0	0
Under Review [UR]	10	3.41	4	40.00

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.

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