Healthcare

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Galapagos NV (GLPG) Rating: Buy

Debiit Chattopadhyay 646-975-6991 dchattopadhyay@hcwresearch.com Earl DeSouza

646-975-6990 edesouza@hcwresearch.com

## Staying the Course for Now and Raising Target to \$302

Stock Data	02/21/2020
Price	\$274.03
Exchange	NASDAQ
Price Target	\$302.00
52-Week High	\$274.03
52-Week Low	\$94.75
Enterprise Value (M)	\$11,420
Market Cap (M)	\$17,721
Shares Outstanding (M)	62.0
3 Month Avg Volume	143,738
Short Interest (M)	1.24
Balance Sheet Metrics	
Cash (M)	\$6,301.1
Total Debt (M)	\$0.0
Total Cash/Share	\$101.71
General: Currency used is roughly 1 Euro to	\$1.09 US. Stock price is

US\$ as on NASDAQ

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EPS (€) Diluted	l		
Full Year - Dec	2018A	2019A	2020E
1Q	€(0.73)	€(0.89)	€(1.30)
2Q	€(0.42)	€(0.86)	€(1.54)
3Q	€0.27	€5.83	€(1.80)
4Q	€0.27	€(1.86)	€1.23
FY	€(0.56)	€2.49	€(3.40)
Revenue (€)			
Full Year - Dec	2018A	2019A	2020E
1Q	€44.8	€40.9	€103.1
2Q	€57.0	€67.6	€103.1
3Q	€103.2	€644.0	€103.1
4Q	€112.8	€143.4	€286.6
FY	€317.8	€895.9	€595.9



The first could be luck, the second a coincidence, but for the third and beyond, we see serious expertise. The ex-filgotinib pipeline is expected to generate mature and POC data over the next 12 months with readouts from: (1) the 850+ patient ROCELLA Phase 2 program during 2H20; (2) NOVESA study evaluating GLPG1690 in subjects with systemic sclerosis during 2H20; (3) POC data from inflammatory indications from two Toledo generated compounds GLPG3312 and '3970 during 2H20; and (4) POC data from the 69 patient PINTA program with GLPG1205 in subjects with IPF during 2H20. Note, about 66% of IPF patients are on nintedanib or pirfenidone and the remaining 33% on a local standard-of-care; and (5) futility analysis from the ISABELA Phase 3 programs evaluating GLPG1690 in IPF during 1Q21. In excess of 600 patients have been recruited in the Phase 3 programs to date, with full enrollment expected by YE20. For the filgotinib-centric pipeline Galapagos expects: (1) RA-related approvals in the U.S., and EU during 2H20; (2) a robust launch for filgotinib based on its differentiated safety profile at the expense of biologics. Note, JAKi's are gaining market share both in the U.S., at the expense of Embrel and Remicade and Germany in lieu of Embrel, Humira and its respective biosimilars, a trend which we see accelerating with the likely detailing of RINVOQ; (3) Phase 3 readout from UC during 2Q20. We expect the UC program to readout positively based on: (a) the prior history of JAKi's; and (b) compelling filgotinib data from CD, refer to the FITZROY study; and (c) ongoing recruitment in the Phase 3 segments of CD, PsA, and AS, which should be reading out during 2021 and beyond. Given the plethora of clinical and commercial milestones and despite the 32% and 180% YTD and 12-month moves respectively, handily outperforming the XBI, 2.26% and 15% over the same time frames, we are sticking to our Buy rating, and increasing our target to \$302, which is primarily being driven by a realignment of our filgotinib pricing assumptions, now calibrated to anticipated GtN for RINVOQ and other JAKi's.

### Links to our prior deep dives into GLPG1972 and GLPG1690 can be found here.

- 1. ROCELLA Is Off to a Running Start; GLPG1972 Recap
- 2. IPF in Vogue With Multiple Phase 3's: Overview and Perspectives

FY19 by the numbers. For FY19, Galapagos reported a net profit of €149.8M, with GAAP EPS of €2.49. Balance sheet reflects about \$6.3B in cash and equivalents. The €3.1B in deferred revenues is expected to amortize at the rate of €400M annually over the next four to five years declining to approximately €200M/year thereafter until complete drawdown. With: (1) filgotinib commercialization in RA expected during 2H20; (2) potential for multiple additional indications thereafter, supports our \$3.9B peak revenue estimate; and (3) financial implications of Gilead's (GILD; not rated) opt-in decisions for maturing pipeline assets, implies Galapagos is unlikely to require additional capital for the foreseeable future, by our estimates. For FY20, we estimate a net loss of (€212.8M), and GAAP EPS of (€3.40)/share.

Valuation and risks to our investment thesis. We reiterate our Buy rating with a new 12-month price target on shares of Galapagos of \$302 vs. our prior \$205, driven entirely by a change to our anticipated gross to net price assumption, which goes to approximately \$40K annually in the U.S., from our prior \$20K, which brings it into line with current commercial JAKi's. Our target is derived from a 12-year DCF-based, sum-of-the-parts analysis. Our DCF is driven by: beta of 1.26, terminal growth rate of -3.0%, risk premium of 4.93%, calculated WACC of 8.0%, and tax rate of 20% beginning in FY 2025. Filgotinib (82%), GLPG1690 and GLPG1972 (2% each) together make up about 86% of our value, with the remainder derived from the probability-adjusted, filgotinib-associated milestone payments. For filgotinib, we assume POS in the range of: 80% for RA based on the FINCH 1 and 3 clinical updates released post close on March 28, 2019, 65% for UC, and 60% for CD, PsA and AS each, whereas for '1690 and '1972, we assign a 35% and 10% POS, respectively. Key risks include: emergence of safety concerns, clinical risks, regulatory risks, and financial risks. Furthermore, regulatory and commercial strategy for filgotinib is under the control of partner, Gilead, not an established player in autoimmune indications. Hence, Gilead may not be able to drive rapid adoption of filgotinib, especially if the overall profile is relatively undifferentiated from AbbVie's (ABBV; not rated) upadacitinib, in our view. Hence, our estimates could be negatively impacted if AbbVie successfully leverages its market positioning with Humira during the launch of RINVOQ.

# Valuation: Galapagos (GLPG) Discounted Cash Flow (DCF) Analysis

		Discounted Cash Flow Analysis	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	TV
Ticker Galápagos	GLPG														
Period	2025E	EBIT (000s €)	€ (172,767)	€ 25,216	€ 461,573	€ 1,012,241	€ 1,680,322	€ 1,919,331	€ 2,394,812	€ 2,347,888	€ 2,487,721	€ 2,551,624	€ 2,577,254	€ 2,595,175	
Beta est	1.26	Tax rate	0.0%	0.0%	0.0%	0.0%	0.0%	20.0%	20.0%	20.0%	20.0%	20.0%	20.0%	20.0%	
Risk-free rate (R <sub>F</sub> )(10 yr yield)	1.75%	EBIT*(1-t)	(172,767)	25,216	461,573	1,012,241	1,680,322	1,535,465	1,915,850	1,878,311	1,990,177	2,041,299	2,061,803	2,076,140	
Risk premium (Rp)	4.93%	Capital expenditures	(24,000)	(26,400)	(29,040)	(31,944)	(35,138)	(38,652)	(42,517)	(46,769)	(51,446)	(56,591)	(62,250)	(68,475)	
Cost of equity (KE)	8.0%	% growth	7.2%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	
Cost of debt (K <sub>D</sub> )	0.0%	Depreciation	14,000	16,800	17,640	18,522	19,448	20,421	21,442	22,514	23,639	24,821	26,062	27,365	
Terminal growth rate	-3.0%	% growth	15.8%	20.0%	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%	
Terminal value (% of total value	43.2%	Change in non-cash working capital	17,500	13,825	16,266	18,882	21,683	20,011	9,194	15,306	16,510	20,885	26,928	33,594	
Shareholder equity	7,560,543	% growth	37.8%	-21.0%	17.7%	16.1%	14.8%	-7.7%	-54.1%	66.5%	7.9%	26.5%	28.9%	24.8%	
Debt outstanding	0	Free cash flow to the firm	(152,267)	54,591	491,987	1,043,825	1,713,226	1,574,526	1,970,615	1,932,288	2,048,752	2,101,826	2,123,187	2,138,386	18,922,390
Total capital	7,560,543	Discount factor	1.00	0.93	0.86	0.79	0.74	0.68	0.63	0.58	0.54	0.50	0.46	0.43	
Equity/cap	100.0%	Present value of cash flows	(152,267)	50,565	422,098	829,502	1,261,055	1,073,493	1,244,461	1,130,267	1,110,014	1,054,789	986,931	920,693	7,546,309
Debt/cap	0.0%	Value of firm	17,477,911												
WACC (calculated)	8.0%	Debt	0												
WACC (applied)	8.0%	Value of equity	17,477,911												
Shares outstanding	63,141	Value per share (\$)	\$ 302.00												

Source: H.C. Wainwright & Co. estimates.

	FY end Dec. 31 201	18A	1Q19A	2Q19A	3Q19A	4Q19A	2019A	1Q20E	2Q20E	3Q20E	4Q20E	2020E	2021E	2022E	2023E	2024E	2025E	2026E	2027E	2028E	2029E	2030E	2031
	FT eliu Dec. 31 201	104	IQIBA	20154	JUISA	40154	2015A	IQZUL	24200	30200	4Q20E	20200	20212	2022E	2023E	20242	2023E	2020E	2027	2020L	20250	20300	2031
come statement																							
in thousands, except per share data)																							
Product revenues	€ 2	88,836	33,047	€ 58,738	€ 633,934	€ 119,266	€ 844,985	€ 90,596	€ 90,596	€ 90,596	€ 274,083	€ 545,872	€ 859,983	€ 1,437,126	€ 2,139,542	€ 2,948,838	€ 3,250,754	€ 3,810,975	€ 3,816,980	€ 3,997,158	€ 4,082,820	€ 4,124,533	€ 4,157
Milestones; other product sales	21	88,836	33,047	58,738	633,934	119,266	844,985	90,596	90,596	90,596	274,083	545,872	457,339	461,927	566,502	464,564	448,853	482,569	289,908	289,908	289,908	304,404	319
filgo RA (US)		0	0	0	0	0	0	0	0	0	0	0	160,913	347,228	466,211	733,555	738,689	892,632	898,881	905,173	911,509	917,890	92
filgo RA (EU)		0	0	0	0	0	0	0	0	0	0	0	221,940	476.536	636,652	797,407	799.002	800,600	802,201	803.805	805,413	807.024	8
filgo UC (US)		0	0	0	0	0	0	0	0	0	0	0	19,791	39.858	64,220	90,941	101.753	122,958	123,819	124,686	125,558	126,437	
filgo UC (EU)		0	0	0	0	0	0	0	0	0	0	0	0	27,351	54,811	87,873	99,055	110,281	110,501	110,722	110,944	111,166	1
filgo CD (US)		0	0	0	0	0	0	0	0	0	0	0	0	84,226	169,631	277.580	322,526	441,706	497,127	526,955	530,644	534,358	5
filgo CD (EU)		0	0	0	0	0	0	0	0	0	0	0	0	0.,220	115.823	232,109	302.345	349,558	396,958	444.546	468.879	469.817	
filgo PsA (US)		0	0	0	0	0	0		0		0	0	0	0	32,832	82,654	116,526	160.925	182,308	203,983	205,411	206,848	2
		0	0		0		0	0		0		0	0	0	32,032	44.924	90.028	126,292	144,622	163.025	181,501	181.864	
filgo PsA (EU)		0	U	0	-	Ü	U	U	U	U	U	0		0		**							
filgo AS (US)		U	U	U	0	U	U	U	U	U	U	U	U	U	21,888	55,103	77,684	107,284	121,539	135,988	136,940	137,899	1
filgo AS (EU)		U	U	U	0	U	U	U	U	U	0	U	U	U	0	29,950	60,019	84,195	96,415	108,684	121,001	121,243	1
1690 IPF (US)		0	0	0	0	0	0	0	0	0	0	0	0	0	10,972	23,203	32,712	39,440	44,680	52,265	52,630	55,303	1
1690 IPF (EU)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	7,882	15,796	23,214	26,583	31,328	34,878	36,468	
1972 OA (US)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	21,094	42,483	62,745	72,211	85,524	95,692	100,551	1
1972 OA (EU)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3,282	6,578	9,227	10,566	11,911	13,261	
Grants + Other income	:	29,009	7,872	8,852	10,020	24,161	50,905	12,500	12,500	12,500	12,500	50,000	51,000	52,020	53,060	54,122	55,204	56,308	57,434	58,583	59,755	60,950	
tal Revenues	3:	17,845	40,919	67,590	643,954	143,427	895,890	103,096	103,096	103,096	286,583	595,872	910,983	1,489,146	2,192,603	3,002,960	3,305,958	3,867,283	3,874,415	4,055,741	4,142,575	4,185,483	4,21
Cost of goods sold		0	0	0	0	0	0	0	0	0	0	0	40,264	97,520	157,304	248,427	280,190	332,841	352,707	370,725	379,291	382,013	3
oss profit	3	17,845	40,919	67,590	643,954	143,427	895,890	103,096	103,096	103,096	286,583	595,872	870,719	1,391,626	2,035,299	2,754,533	3,025,768	3,534,442	3,521,707	3,685,016	3,763,284	3,803,470	3,8
Research and development	3:	22,876	83,195	94,372	120,680	129,073	427,320	135,000	148,500	163,350	168,251	615,101	676.611	744,272	818,699	859.634	885,423	911.985	939,345	958,132	967,713	977,390	
General and administrative		35,630	9,221	13,711	28,565	22,204	73,701	23,500	24,675	25,909	27,204	101,288	111,417	122,558	134,814	141,555	145,802	150,176	154,681	157,775	160,930	164,149	
Sales and marketing expenses		4.148	1.745	3.874	4.078	14.880	24.577	15,500	16,000	16,500	4.250	52,250	57,475	63,223	69,545	73.022	75,213	77,469	79.793	81,389	83.017	84,677	
al operating expenses		62,654	94,161	111,957	153,323	166,157	525,598	174,000	189,175	205,759	199,705	768,638	845,502	930,053	1,023,058	1,074,211	1,106,437	1,139,630	1,173,819	1,197,295	1,211,660	1,226,216	1,2
rating gains (losses)	(4	(44,809)	(53,242)	(44,367)	490,631	(22,730)	370,292	(70,904)	(86,079)	(102,662)	86,878	(172,767)	25,216	461,573	1,012,241	1,680,322	1,919,331	2,394,812	2,347,888	2,487,721	2,551,624	2,577,254	2,
Financial income		18,335	6,999	(1,349)	34,755	(18,923)	21,482	5,000	5,000	5,000	5,000	20,000	20,200	21,210	22,271	23,384	24,553	25,781	27,070	28,423	29,845	31,337	
Fair value re-measurement of share subscription		0	0	0	(142,349)	(39,295)	(181,644)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Financial expenses		(2,736)	(2,345)	(1,472)	(38,631)	(17,623)	(60,071)	(15,000)	(15,000)	(15,000)	(15,000)	(60,000)	(63,000)	(66,150)	(69,458)	(72,930)	(76,577)	(80,406)	(84,426)	(88,647)	(93,080)	(97,734)	) (1
al other income (expense)		15,599	4,654	(2,821)	(146,225)	(75,841)	(220,233)	(10,000)	(10,000)	(10,000)	(10,000)	(40,000)	(42,800)	(44,940)	(47,187)	(49,546)	(52,024)	(54,625)	(57,356)	(60,224)	(63,235)	(66,397)	)
n (loss) before income taxes		(29,210)	(48,588)	(47,188)	344,406	(98,571)	150,059	(80,904)	(96,079)	(112,662)	76,878	(212,767)	(17,584)	416,633	965,054	1,630,776	1,867,307	2.340.188	2,290,532	2,427,497	2,488,389	2,510,857	2,
Income tax benefit (expense)	,	(49)	(68)	(61)	16,828	(16,913)	(214)	0	0	0	0	0	0	0	0	0	(373,461)	(468,038)	(458,106)	(485,499)	(497,678)	(502,171)	) (
income (loss)	(	(29,259)	(48,656)	(47,249)	361,234	(115,484)	149,845	(80,904)	(96,079)	(112,662)	76,878	(212,767)	(17,584)	416,633	965,054	1,630,776	1,493,846	1,872,150	1,832,426	1,941,998	1,990,711	2,008,685	2,0
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nings (loss) per share - diluted	€	(0.56) €	(0.89)	€ (0.86)	€ 5.83	€ (1.86)	€ 2.49	€ (1.30)	€ (1.54)	€ (1.80)	€ 1.23	€ (3.40)	€ (0.28)	€ 6.64	€ 15.35	€ 25.88	€ 23.66	€ 29.59	€ 28.91	€ 30.57	€ 31.28	€ 31.50	€
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hares outstanding - diluted		52.227	54.615	54.823	61,954	62,078	60,118	62,202	62.326	62.451	62,576	62,514	62.639	62,764	62,889	63,015	63.141	63.267	63.394	63,521	63,648	63,775	

Cash	Flow	Statement
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Cash flows statement	2018A	1Q19A	2Q19A	3Q19A	4Q19A	2019A	1Q20E	2Q20E	3Q20E	4Q20E	2020E	2021E	2022E	2023E	2024E	2025E	2026E	2027E	2028E	2029E	2030E	2031E
(\$ in thousands, except per share data)																						
																					, ,	1
Cash flows from Operating activities:																					, ,	1
Net gain (loss)	€ (29,259)	€ (48,656)	€ (47,249)	€ 361,234	€ (115,484)	€ 149,845	€ (80,904)	€ (96,079)	€ (112,662)	€ 76,878	€ (212,767)	€ (17,584)	€ 416,633	€ 965,054	€ 1,630,776	€ 1,493,846	€ 1,872,150	€ 1,832,426	€ 1,941,998	€ 1,990,711	€ 2,008,685	€ 2,020,367
Adjustments for non-cash transactions; and items to discl sep under op cash flow	€ 17,364	€ 4,007	€ 16,407	€ 107,523	€ 112,359	€ 240,296	€ 16,550	€ 17,050	€ 17,550	€ 18,050	€ 69,200	€ 77,410	€ 84,196	€ 91,612	€ 99,720	€ 108,585	€ 118,282	€ 128,891	€ 140,500	€ 153,205	€ 167,114	€ 182,343
Adjustment for items to disclose under investing and financing cash flows	(668)	(3)	0	0	(5,058)	(5,061)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Change in working capital other than deferred income	19,922	(2,294)	(13,624)	57,044	(28,428)	12,698	4,000	5,000	3,500	5,000	17,500	13,825	16,266	18,882	21,683	20,011	9,194	15,306	16,510	20,885	26,928	33,594
Decrease in deferred income	(153,312)	(25,979)	(27,499)	2,943,764	(86,084)	2,804,202	(100,000)	(100,000)	(100,000)	(100,000)	(400,000)	(400,000)	(400,000)	(400,000)	(175,000)	(175,000)	(150,000)	(150,000)	(150,000)	(100,000)	(75,000)	(50,000)
Interest paid; and received, net	3,495	1,238	2,000	990	2,466	6,694	650	650	650	650	2,600	2,860	3,146	3,461	3,807	4,187	4,606	5,067	5,573	6,131	6,744	7,418
Income taxes paid	(8)	(11)	(77)	(57)	88	(57)	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0
Net cash provided (used) by Operating activities	(142,466)	(71,698)	(70,042)	3,470,498	(120,141)	3,208,617	(159,704)	(173,379)	(190,962)	578	(523,467)	(323,489)	120,241	679,008	1,580,985	1,451,629	1,854,232	1,831,689	1,954,581	2,070,932	2,134,472	2,193,723
																					,	1
Cash flows from Investing activities:																					, ,	1
Purchases of property and equipment	(10,392)	(2,103)	(2,930)	(12,289)	(5,063)	(22,385)	(6,000)	(6,000)	(6,000)	(6,000)	(24,000)	(26,400)	(29,040)	(31,944)	(35,138)	(38,652)	(42,517)	(46,769)	(51,446)	(56,591)	(62,250)	(68,475)
Purchase of and expenditure in intangible fixed assets	(3,325)	(1,201)	(2,334)	(1,930)	(17,835)	(23,300)	(1,000)	(1,000)	(1,000)	(1,000)	(4,000)	(4,200)	(4,410)	(4,631)	(4,862)	(5,105)	(5,360)	(5,628)	(5,910)	(6,205)	(6,516)	(6,841)
Proceeds from disposal of p,p, and e	1	1	1	(1)	(1)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Increase in/ Interest received/ Decrease in financial investments; and decrease in rest	0	0	0	0	(3,718,880)	(3,718,880)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Acquistion of available-for-sale financial assets	(4,559)	(177)	0	0	0	(177)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Proceeds from sale of available-for-sale financial assets	2,361	82	0	0	0	82	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0
Net cash provided (used) by Investing activities	(15,914)	(3,398)	(5,263)	(14,220)	(3,741,779)	(3,764,660)	(7,000)	(7,000)	(7,000)	(7,000)	(28,000)	(30,600)	(33,450)	(36,575)	(40,000)	(43,757)	(47,878)	(52,398)	(57,356)	(62,796)	(68,765)	(75,316)
Cash flows from Financing activities:																					, ,	
Repayment of obligations under finance leases and other debts	(5)	(1.248)	(896)	(1,690)	(1,257)	(5.091)	0	0	0	0	0		0		0		0		0	0		1 .
Proceeds from capital and share premium increases, gross amount	296.188	(1,240)	(050)	960.087	(1,207)	960.087	0	0	0	0	0	,	0		0		0	0	0	0	ŏ	1 6
Issue costs paid related to capital and share premium increases	(15.964)	0	0	0	(4,447)	(4.447)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	ň	1 0
Proceeds from capital and share premium increases from exercise of warrants	7 657	3 481	4.324	6.675	370,722	385,202	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1 0
Net cash provided (used) by Financing activities	287.876	2.233	3.428	965,072	365.018	1.335.751	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Effect of exchange rate differences on cash, cash equivalents; and transfer to curr fina	10,089	4,968	(3,101)	30,514	(241,269)	(208,888)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Net increase (decrease) in Cash/Cash Equivalents	139,585	(67.895)	(74,978)	4,451,864	(3,738,171)	570.820	(166,704)	(180,379)	(197,962)	(6,422)	(551,467)	(354,089)	86.791	642,434	1.540.984	1,407,872	1,806,354	1,779,292	1.897.225	2.008.136	2.065.707	2.118.407
Cash & Cash Equivalents at Beginning of Period	1,151,211	1,290,796	1,222,901	1.147.923	5.599.787	1,290,796	1.861.616	1,694,912	1,514,534	1.316.571	1.861.616	1,310,149	956,060	1.042,851	1.685,285	3,226,269	4,634,141	6,440,496	8,219,787	10,117,013	12,125,148	14,190,855
							€ 1,694,912		£ 1 316 571									€ 8,219,787			€ 14,190,855	

Source: H.C. Wainwright & Co. estimates.

Balance S	Sheet
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Balance Sheet																						
Balance sheet	2018A	1Q19A	2Q19A	3Q19A	4Q19A	2019A	1Q20E	2Q20E	3Q20E	4Q20E	2020E	2021E	2022E	2023E	2024E	2025E	2026E	2027E	2028E	2029E	2030E	2031E
(\$ in thousands, except per share data)																						
Assets																					1	
Current assets:																					1	Ï
Cash and cash equivalents	€ 1,290,796	€ 1,222,901	€ 1,147,923	€ 5,599,787	€ 1,861,616	€ 1,861,616	€ 1,694,912	€ 1,514,534	€ 1,316,571	€ 1,310,149	€ 1,310,149	€ 956,060	€ 1,042,851	€ 1,685,285	€ 3,226,269	€ 4,634,141	€ 6,440,496	€ 8,219,787	€ 10,117,013	€ 12,125,148	€ 14,190,855	€ 16,309,26
Trade and other receivables	18,609	15,347	42,067	32,642	54,009	54,009	62,759	71,509	81,509	91,509	91,509	132,759	175,247	219,009	264,084	312,845	370,010	427,264	487,222	548,464	610,332	672,69
Current R&D incentives receivables	11,203	11,645	11,644	9,746	21,949	21,949	30,699	39,449	49,449	59,449	59,449	100,699	143,187	186,949	232,024	280,785	337,950	395,204	455,162	516,404	578,272	640,6
Current restricted cash	0	0	0	0	3,919,216	3,919,216	3,919,216	3,919,216	3,919,216	3,919,216	3,919,216	3,919,216	3,919,216	3,919,216	3,919,216	3,919,216	3,919,216	3,919,216	3,919,216	3,919,216	3,919,216	3,919,2
Other current assets	8,243	9,351	6,970	8,837	9,138	9,138	10,138	11,138	12,138	13,138	13,138	18,138	23,288	28,593	34,056	39,684	45,480	51,450	57,600	63,934	70,457	77,1
Total current assets	1,328,851	1,259,244	1,208,604	5,651,012	5,865,928	5,865,928	5,717,724	5,555,846	5,378,883	5,393,461	5,393,461	5,126,872	5,303,788	6,039,051	7,675,649	9,186,671	11,113,151	13,012,922	15,036,211	17,173,166	19,369,132	21,618,9
Intangible assets	3,632	6,497	7,191	23,492	24,927	24,927	25,377	25,827	26,277	26,727	26,727	28,617	30,602	32,685	34,873	37,170	39,583	42,115	44,775	47,567	50,499	53,57
Property, plant and equipment, net	23,137	49,542	51,180	61,883	66,052	66,052	68,552	71,052	73,552	76,052	76,052	85,652	97,052	110,474	126,164	144,396	165,472	189,728	217,534	249,304	285,491	326,6
Deferred tax assets	2,514	2,511	2,516	19,406	4,205	4,205	4,205	4,205	4,205	4,205	4,205	4,205	4,205	4,205	4,205	4,205	4,205	4,205	4,205	4,205	4,205	4,2
Non-current R&D incentives receivables	73,443	76,029	82,644	89,965	93,407	93,407	93,407	93,407	93,407	93,407	93,407	93,407	93,407	93,407	93,407	93,407	93,407	93,407	93,407	93,407	93,407	93,40
Other non-current assets	7,919	6,377	5,713	5,994	14,090	14,090	14,090	14,090	14,090	14,090	14,090	14,090	14,090	14,090	14,090	14,090	14,090	14,090	14,090	14,090	14,090	14,09
Total assets	1,439,496	1,400,200	1,357,848	5,851,752	6,068,609	6,068,609	5,923,355	5,764,427	5,590,414	5,607,942	5,607,942	5,352,843	5,543,144	6,293,912	7,948,388	9,479,939	11,429,908	13,356,467	15,410,223	17,581,739	19,816,825	22,110,8
																					1	ì
Liabilities and stockholders' equity																					1 '	ĺ
Current liabilities:																					1	Ï
Finance lease liabilities	0	4,580	5,141	5,251	5,826	5,826	5,826	5,826	5,826	5,826	5,826	5,826	5,826	5,826	5,826	5,826	5,826	5,826	5,826	5,826	5,826	5,8
Trade and other payables	68,928	69,880	86,216	156,254	143,434	143,434	165,934	189,434	213,934	239,934	239,934	341,259	447,650	559,361	676,657	799,819	929,138	1,064,923	1,207,497	1,357,201	1,514,389	1,679,4
Current tax payable	1,175	1,168	1,031	1,032	2,037	2,037	2,037	2,037	2,037	2,037	2,037	2,037	2,037	2,037	2,037	2,037	2,037	2,037	2,037	2,037	2,037	2,0
Current financial instruments	0	0	0	0	6,198	6,198	6,198	6,198	6,198	6,198	6,198	6,198	6,198	6,198	6,198	6,198	6,198	6,198	6,198	6,198	6,198	6,1
Current deferred income	149,801	123,822	96,325	468,764	414,298	414,298	414,298	414,298	414,298	414,298	414,298	414,298	414,298	414,298	414,298	414,298	414,298	414,298	414,298	414,298	414,298	414,2
Total current liabilities	219,904	199,450	188,713	631,301	571,793	571,793	594,293	617,793	642,293	668,293	668,293	769,618	876,009	987,720	1,105,016	1,228,178	1,357,497	1,493,282	1,635,856	1,785,560	1,942,748	2,107,7
Pension liabilities	3,764	3,851	3,939	4,026	8,263	8,263	8,263	8,263	8,263	8,263	8,263	8,263	8,263	8,263	8,263	8,263	8,263	8,263	8,263	8,263	8,263	8,2
Long-term leasing debts; and Other non-current liabilities	1,579	21,144	21,829	22,131	26,547	26,547	27,197	27,847	28,497	29,147	29,147	32,007	35,153	38,614	42,420	46,608	51,214	56,280	61,854	67,984	74,728	82,1
Non-current deferred income	0	0	0	2,659,013	2,586,348	2,586,348	2,486,348	2,386,348	2,286,348	2,186,348	2,186,348	1,786,348	1,386,348	986,348	811,348	636,348	486,348	336,348	186,348	86,348	11,348	(38,6
Total liabilities	225,247	224,445	214,481	3,316,471	3,192,951	3,192,951	3,116,101	3,040,251	2,965,401	2,892,051	2,892,051	2,596,236	2,305,773	2,020,945	1,967,048	1,919,396	1,903,321	1,894,173	1,892,321	1,948,155	2,037,087	2,159,5
																					1	Ï
Share capital	236,540	237,348	238,475	272,605	287,282	287,282	287,282	287,282	287,282	287,282	287,282	287,282	287,282	287,282	287,282	287,282	287,282	287,282	287,282	287,282	287,282	287,2
Share premium account	1,277,780	1,280,452	1,283,650	2,268,585	2,703,583	2,703,583	2,716,083	2,729,083	2,742,583	2,756,583	2,756,583	2,814,883	2,879,013	2,949,556	3,027,153	3,112,510	3,206,403	3,309,685	3,423,295	3,548,267	3,685,735	3,836,9
Other reserves	(735)	(735)	(735)	(735)	(4,842)	(4,842)	(4,842)	(4,842)	(4,842)	(4,842)	(4,842)	(4,842)	(4,842)	(4,842)	(4,842)	(4,842)	(4,842)	(4,842)	(4,842)	(4,842)	(4,842)	(4,8
Translation differences	(1,557)	(1,290)	(1,505)	(1,267)	(1,142)	(1,142)	(1,142)	(1,142)	(1,142)	(1,142)	(1,142)	(1,142)	(1,142)	(1,142)	(1,142)	(1,142)	(1,142)	(1,142)	(1,142)	(1,142)	(1,142)	(1,1)
Accumulated losses	(297,779)	(340,020)	(376,518)	(3,907)	(109,223)	(109,223)	(190,127)	(286,205)	(398,868)	(321,990)	(321,990)	(339,574)	77,060	1,042,114	2,672,889	4,166,735	6,038,885	7,871,311	9,813,308	11,804,019	13,812,705	15,833,0
Total stockholders' equity	1,214,249	1,175,755	1,143,367	2,535,281	2,875,658	2,875,658	2,807,254	2,724,176	2,625,013	2,715,891	2,715,891	2,756,607	3,237,371	4,272,968	5,981,340	7,560,543	9,526,586	11,462,294	13,517,902	15,633,584	17,779,738	19,951,32
																						l
Total liabilities and stockholders' equity	€ 1,439,496	€ 1,400,200	€ 1,357,848	€ 5,851,752	€ 6,068,609	€ 6,068,609	€ 5,923,355	€ 5,764,427	€ 5,590,414	€ 5,607,942	€ 5,607,942	€ 5,352,843	€ 5,543,144	€ 6,293,912	€ 7,948,388	€ 9,479,939	€ 11,429,908	€ 13,356,467	€ 15,410,223	€ 17,581,739	€ 19,816,825	€ 22,110,87

Cash Outlook, Ratio Analysis, and Ent	erprise Value																					
CASH QUICK LOOK:	2018A	1Q19A	2Q19A	3Q19A	4Q19A	2019A	1Q20E	2Q20E	3Q20E	4Q20E	2020E	2021E	2022E	2023E	2024E	2025E	2026E	2027E	2028E	2029E	2030E	2031E
Cash burn in period (cash from operations)	€ 362,654	€ 94,161	€ 111,957	€ 153,323	€ 166,157	€ 525,598	€ 174,000	€ 189,175	€ 205,759	€ 199,705	€ 768,638	€ 845,502	€ 930,053	€ 1,023,058	€ 1,074,211	€ 1,106,437	€ 1,139,630	€ 1,173,819	€ 1,197,295	€ 1,211,660	€ 1,226,216	€ 1,240,966
Total cash and cash equivalents	€ 1,290,796	€ 1,222,901	€ 1,147,923	€ 5,599,787	€ 5,780,832	€ 5,780,832	€ 5,614,128	€ 5,433,750	€ 5,235,787	€ 5,229,365	€ 5,229,365	€ 4,875,276	€ 4,962,067	€ 5,604,501	€ 7,145,485	€ 8,553,357	€ 10,359,712	€ 12,139,003	€ 14,036,229	€ 16,044,364	€ 18,110,071	€ 20,228,477
Periods of cash remaining	3.5 yrs	13.0 qs	10.5 qs	36.5 qs	35.0 qs	11.0 yrs	32.5 qs	28.5 qs	25.5 qs	26.0 qs	7.0 yrs	6.0 yrs	5.5 yrs	5.5 yrs	6.5 yrs	7.5 yrs	9.0 yrs	10.5 yrs	11.5 yrs	13.0 yrs	15.0 yrs	16.5 yrs
Ratio analysis	2018A	1Q19A	2Q19A	3Q19A	4Q19A	2019A	1Q20E	2Q20E	3Q20E	4Q20E	2020E	2021E	2022E	2023E	2024E	2025E	2026E	2027E	2028E	2029E	2030E	2031E
EBIT	(44,809)	(53,242)	(44,367)	490,631	(22,730)	370,292	(70,904)	(86,079)	(102,662)	86,878	(172,767)	25,216	461,573	1,012,241	1,680,322	1,919,331	2,394,812	2,347,888	2,487,721	2,551,624	2,577,254	2,595,175
EBITDA	(40,618)	(50,484)	(41,472)	493,815	(19,480)	382,379	(67,404)	(82,579)	(99,162)	90,378	(158,767)	42,016	479,213	1,030,763	1,699,770	1,939,751	2,416,254	2,370,402	2,511,360	2,576,445	2,603,316	2,622,541
EBITDA % of Sales	-13%	-123%	-61%	77%	-14%	43%	-65%	-80%	-96%	32%	-27%	5%	32%	47%	57%	59%	62%	61%	62%	62%	62%	62%
EV/EBITDA multiple	(72x)	(88x)	(122x)	6x	(564x)	29x	(205x)	(170x)	(144x)	158x	(90x)	349x	31x	14x	7x	6x	4x	3x	2x	1x	1x	(0x)
Gross Profit Margin	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	96%	93%	93%	92%	92%	91%	91%	91%	91%	91%	91%
OpMargin	-14%	-130%	-66%	76%	-16%	41%	-69%	-83%	-100%	30%	-29%	3%	31%	46%	56%	58%	62%	61%	61%	62%	62%	61%
Net Operating Profit After Tax (NOPAT)	(44,858)	(53,310)	(44,428)	507,459	(39,643)	370,078	(70,904)	(86,079)	(102,662)	86,878	(172,767)	25,216	461,573	1,012,241	1,680,322	1,545,869	1,926,775	1,889,782	2,002,221	2,053,946	2,075,082	2,090,084
Free Cash Flow (FCF)	(152,858)	(73,801)	(72,972)	3,458,209	(125,204)	3,186,232	(165,704)	(179,379)	(196,962)	(5,422)	(547,467)	(349,889)	91,201	647,064	1,545,846	1,412,977	1,811,715	1,784,920	1,903,135	2,014,341	2,072,222	2,125,248
Book per share	€ 23.25	€ 21.53	€ 20.86	€ 40.92	€ 46.32	€ 47.83	€ 45.13	€ 43.71	€ 42.03	€ 43.40	€ 43.44	€ 44.01	€ 51.58	€ 67.94	€ 94.92	€ 119.74	€ 150.58	€ 180.81	€ 212.81	€ 245.63	€ 278.79	€ 312.21
Net cash per share	€ 24.72	€ 22.39	€ 20.94	€ 90.39	€ 29.99	€ 30.97	€ 27.25	€ 24.30	€ 21.08	€ 20.94	€ 20.96	€ 15.26	€ 16.62	€ 26.80	€ 51.20	€ 73.39	€ 101.80	€ 129.66	€ 159.27	€ 190.50	€ 222.51	€ 255.22
Return on assets (ROA)	-2%	-3%	-3%	6%	-2%	2%	-1%	-2%	-2%	1%	-4%	0%	8%	15%	21%	16%	16%	14%	13%	11%	10%	9%
Return on equity (ROE)	-2%	-4%	-4%	14%	-4%	5%	-3%	-4%	-4%	3%	-8%	-1%	13%	23%	27%	20%	20%	16%	14%	13%	11%	10%
Current ratio	6.04	6.31	6.40	8.95	10.26	10.26	9.62	8.99	8.37	8.07	8.07	6.66	6.05	6.11	6.95	7.48	8.19	8.71	9.19	9.62	9.97	10.26
Enterprise Value (MC + Total Debt - Cash)	2,916,600	4,451,576	5,071,758	2,920,723	10,977,923	10,977,923	13,824,460	14,035,878	14,264,941	14,302,526	14,286,976	14,672,259	14,616,724	14,005,610	12,496,007	11,119,580	9,344,733	7,597,012	5,731,420	3,754,981	1,721,035	(365,548)
Market Cap (MC)	4,207,396	5,674,477	6,219,681	8,520,510	12,839,539	12,839,539	15,519,373	15,550,411	15,581,512	15,612,675	15,597,125	15,628,319	15,659,576	15,690,895	15,722,277	15,753,721	15,785,229	15,816,799	15,848,433	15,880,130	15,911,890	15,943,714
Current Share price																						
€	249.50																					,

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**Market Outperform (Buy):** The common stock of the company is expected to outperform a passive index comprised of all the common stock of companies within the same sector.

**Market Perform (Neutral):** The common stock of the company is expected to mimic the performance of a passive index comprised of all the common stock of companies within the same sector.

**Market Underperform (Sell):** The common stock of the company is expected to underperform a passive index comprised of all the common stock of companies within the same sector.



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Distribution of Ratings Table as of February 21, 2020												
			IB Se	rvice/Past 12 Months								
Ratings	Count	Percent	Count	Percent								
Buy	380	91.57%	135	35.53%								
Neutral	33	7.95%	6	18.18%								
Sell	0	0.00%	0	0.00%								
Under Review	2	0.48%	2	100.00%								

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