

## Galapagos

### No Man is a (Galapagos) Island; Recent Outperformance Reinforces Hold Rating

24 February 2020

#### Key Takeaway

Filgotinib approvals for RA in 2H are widely anticipated. We remain confident in blockbuster potential, increasing our probability to 100%. However, we believe a positive outcome for pivotal ulcerative colitis data in 2Q20E is largely assumed, whilst upcoming pipeline readouts are high risk, notably '1690 in sclerosis and '1972 in osteoarthritis. With the recent stock move leaving insufficient upside and risk arguably skewed to the downside we retain our Hold.

**Reiterate Hold on near-term downside skew:** We believe the recent share price outperformance, +30% vs US biotech BTK +5% YTD, leaves insufficient upside. Further, filgotinib rheumatoid arthritis (RA) approvals and positive UC Phase III data are widely anticipated, whereas upcoming pipeline catalysts are high risk, in our view. Over the next 12 months, positive pipeline catalysts could boost NPVs c.€20/share (+10%) to around the current share price, vs "worst" case downside of €125/share (-44%). Hiking PT +32% largely on de-risking filgotinib across all indications and including a Toledo NPV.

**Multi-blockbuster potential for filgotinib:** Given compelling efficacy, RA approvals are largely expected, in our view. Whilst we continue to believe filgotinib has best-in-class safety, we believe it may struggle to avoid a thrombosis-risk black box warning, with competitor [Rinvoq/upadacitinib's approval suggesting FDA perceives this as a JAKi-class risk](#), which could impact filgotinib's ability to differentiate as the fourth JAKi.

Phase IIb/III SELECTION ulcerative colitis (UC) data in 2Q20E are notable given filgotinib is ahead of key competitor upadacitinib in this indication, and could inform on filgotinib's broader commercial potential, whilst Phase III Crohn's disease DIVERSITY data are expected during 2021E.

We forecast \$6bn WW peak sales for filgotinib, with \$3bn in RA, \$600m in Crohn's disease, \$400m in UC, and a \$2bn cumulative contribution for other indications, combined worth c.€105/share (c.47% of NPVs) based on 100% probability.

**Funds to rapidly advance pipeline:** We expect a significant proportion of the c.\$5bn from Gilead to be used to accelerate GLPG's secretive **Toledo programme** in order to maximise first-mover advantage with this undisclosed mechanism of action. First-gen compound '3312 (pan-TOL) should start Phase IIa in ulcerative colitis shortly and an extensive Phase II programme across multiple inflammatory indications is planned to start 4Q for second-gen '3970 (TOL2/3). We now assume \$3bn peak sales for the broad programme at 15% probability for a c.€5/share NPV. **GLPG1690** is in the Phase III ISABELA trial in lung fibrosis (IPF), with the key interim futility analysis expected early-1Q21E and top-line data 1Q22E. Together with a Phase II in systemic sclerosis for data 3Q20E, GLPG1690 contributes c.€17/share NPV (c.7%) based on 40% probability of \$1.85bn WW peak sales in IPF. **GLPG1205** Phase IIa PINTA data also in IPF are expected during 2H20E. Data from the Phase IIb ROCELLA trial of **GLPG1972** in osteoarthritis are expected 4Q20E triggering a 60-day opt-in period for Gilead for US rights; we forecast \$3bn WW peak sales, for a c.€6/share NPV at 20% probability; Servier has ex-US rights.

#### Target | Estimate Change

Netherlands | Biotechnology

RATING	HOLD
TICKER	GLPG NA
PRICE	€242.70 <sup>^</sup>
PRICE TARGET (PT)	€225.00 (from €170.00)
MARKET CAP	€15.7B / \$17.0B

<sup>^</sup>Prior trading day's closing price unless otherwise noted.

RATING	HOLD
TICKER	GLPG
PRICE	\$260.04 <sup>^</sup>
PRICE TARGET (PT)	\$243.00 (from \$190.00)
MARKET CAP	€15.6B / \$16.8B

<sup>^</sup>Prior trading day's closing price unless otherwise noted.

FY Dec				
EUR	2019A	2020E	2021E	2022E
EPS	↓5.77	↑(0.31)	↑(3.18)	↓(3.00)
Prev.	6.87	(1.33)	(3.33)	0.86
FY P/E	42.1x	NM	NM	NM

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## GALAPAGOS (GLPG NA)

Estimates				
€	2019A	2020E	2021E	2022E
Rev. (MM)	↓ 895.9	↑ 693.2	↑ 634.3	↓ 689.1
Previous	916.3	645.7	601.7	849.4
EBIT (MM)	↓ 370.3	↑ (43.9)	↑ (242.6)	↓ (231.9)
Previous	373.2	(115.3)	(257.0)	17.9
Cash Position	↓ 5,780.8	↓ 5,371.8	↓ 4,844.0	↓ 4,333.1
Previous	5,922.3	5,503.8	4,955.8	4,666.5
EPS	↓ 5.77	↑ (0.31)	↑ (3.18)	↓ (3.00)
Previous	6.87	(1.33)	(3.33)	0.86

Valuation				
	2019A	2020E	2021E	2022E
P/Rev	17.5x	22.7x	24.8x	22.8x
EV/Rev	11.1x	14.4x	15.7x	14.4x
EV/EBIT	26.9x	NM	NM	NM
FY P/E	42.1x	NM	NM	NM

Market Data	
52-Week Range:	€252.90 - €78.22
Total Entprs. Value	€10.0B
Avg. Daily Value MM (USD)	136.88
Float (%)	74.0%

Financial Summary	
Long-Term Debt (MM)	€19.6
Cash & ST Invest. (MM)	€5,780.8

## The Long View

### Scenarios

#### Base Case

- Lead product filgotinib underpins much of our valuation and remains the focus. We are encouraged by its competitive profile in the Phase III FINCH RA programme and Phase II FITZROY Crohn's trial. Partner Gilead should be well-placed to maximise its commercial potential.
- Numerous other pipeline programmes could also crystallise value via possible milestones from the broad R&D opt-in alliance with Gilead, in particular in lung fibrosis (IPF) and osteoarthritis. However, we find insufficient upside at the current share price, which along with a belief that risk is skewed to the downside in view of high-risk pipeline readouts during 2H20E, dictates our Hold.
- Price Target €225/\$243 per share/ADS largely comprising filgotinib, GLPG1690, and GLPG1972 NPVs plus Net Cash.

#### Upside Scenario

- Positive initial Toledo proof-of-concept data during 2020E could add c.€5/share
- Positive Phase III ISABELA results for GLPG1690 in idiopathic pulmonary fibrosis during 1Q21E could add around €17/share
- Over a 12-month period, these potential catalysts could boost our NPV derived Price Target to c.€245/\$265 per share/ADS

#### Downside Scenario

- Safety concerns for filgotinib during 2020E could remove around €75/share from our valuation
- Efficacy and/or safety concerns in the filgotinib Phase III Crohn's or ulcerative colitis during 2020-21E trials could remove up to €30/share
- Discontinuation of or delays to the Toledo programme during 2020-21E could remove c.€5/share
- Efficacy or safety concerns for GLPG1690 in IPF during 1Q21E could remove at least €17/share
- Over a 12-month period, these setbacks could reduce our NPV derived Price Target to c.€100/\$108 per share/ADS

### Investment Thesis / Where We Differ

- The c.€5.8bn Cash at 31 December 2019, including the c.\$5bn proceeds from the Gilead deal, should be more than sufficient to fund operations for the foreseeable future.
- If successfully developed, Galapagos could commercialise GLPG1690 itself in Europe for the Orphan Disease IPF, which could provide a potentially lucrative long-term opportunity.

### Catalysts

- Filgotinib Phase IIb/III SELECTION ulcerative colitis data in 2Q20E for potential filings in 2H20E
- Filgotinib RA approvals and launches across US, EU and Japan from 2H20E
- Phase II data for GLPG1690 in systemic sclerosis (NOVESA) and GLPG1205 in IPF (PINTA) in 3Q20E
- Phase IIb ROCCELLA GLPG1972 osteoarthritis data during 4Q20E
- Toledo GLPG3312 proof-of-concept data in ulcerative colitis potentially during 2H20E
- GLPG1690 Phase III IPF interim futility analysis 1Q21E

## Reiterate Hold, PT +32% to €225

Lead product filgotinib, along with cash, underpins the majority of our €225/share sum-of-the-parts valuation and remains the focus for investors. Gilead licensed global rights in December 2015 providing a partner to maximise the drug's commercial potential, after AbbVie elected to opt-out in favour of prioritising its own JAK inhibitor upadacitinib. We are encouraged by filgotinib's competitive profile based on the Phase IIb DARWIN and Phase III FINCH rheumatoid arthritis (RA) clinical data, with results from the Phase II FITZROY trial also suggesting the drug is effective for inflammatory bowel disease (IBD). We forecast \$6bn global blockbuster potential largely comprising \$3bn in RA. The broad R&D collaboration with Gilead provides external endorsement of Galapagos' largely underappreciated pipeline and discovery capabilities, with Gilead gaining an opt-in for ex-EU rights for all programmes post-Phase II. The pivotal programme for GLPG1690 for lung fibrosis (IPF) is underway, and could have significant commercial potential, with GLPG1205 in Phase II and GLPG3499 preparing for Phase I for the same indication. GLPG1972 with partner Servier for osteoarthritis could also be an underappreciated Phase II asset, in our view. The Gilead collaboration funds will likely be used to accelerate development of the secretive Toledo programme, aiming to secure GLPG's first-mover advantage. However, we can find insufficient upside at the current share price, which along with a belief that that risk is skewed to the downside in view of high-risk pipeline readouts over the next 12 months, dictates our Hold.

### Global Gilead deal an impressive endorsement

In return for a \$3.95bn upfront and \$1.1bn equity investment, Gilead gained exclusive ex-EU rights to all of GLPG's current and future programmes, essentially securing its independence for the next decade and providing funds to accelerate its pipeline, notably Toledo, and to establish its EU commercial presence ahead of potential filgotinib launch by YE20E. We view the deal and equity premium paid as a welcome endorsement of GLPG's pipeline and platform, albeit recognise the 10-year standstill effectively removes any acquisition optionality from the stock and flexibility to execute future WW out-licensing deals.

## FINCH programme supports potentially differentiated safety profile for filgotinib

Selective JAK1 inhibitor filgotinib promises to be a safe and convenient oral treatment for rheumatoid arthritis (RA). Encouraging Phase II data in Crohn's disease (CD) suggest the drug could also have potential in IBD, perhaps a greater unmet medical need albeit a smaller eligible patient population. Multiple proof-of-concept studies in other indications are ongoing. Compared to currently approved biologic agents such as TNFs (e.g. Humira), filgotinib is administered orally, targets JAK1 specifically, and has a rapid onset, sustained response and potential for monotherapy use.

- **Peak sales forecast:** \$6bn with \$3bn in RA, \$600m in CD, \$400m in ulcerative colitis (UC), and a \$2bn cumulative contribution for other indications
- **Valuation:** c.€105 per share with a 100% probability of success
- **Next news flow:** Regulatory approvals for RA during 2H20E; Phase IIb/III SELECTION ulcerative colitis data around mid-2020E; potential update on timings for the MANTA male safety study during 2020E

### Broad applicability means multi-blockbuster potential

We forecast peak sales of \$3bn in RA, \$600m in CD and \$400m in UC. We understand Gilead and Galapagos aim to pursue development of filgotinib in 10 to 14 indications, not including the Crohn's sub-populations. Given this extensive programme, we include a \$2bn WW peak sales contribution reflecting filgotinib's potential use in other indications beyond RA and IBD. We note Humira was not the first anti-TNF $\alpha$  biologic to be approved but it is now the most commercially successful, in part due to its regulatory approvals for numerous indications. Currently, we believe 35%-40% of Humira's global sales are from its use in indications other than RA and IBD, hence we estimate a 30%-35% contribution from these diseases for filgotinib representing around \$2bn at peak.

Galapagos receives 20%-30% tiered royalties on sales from partner Gilead and a 50:50 profit-share on co-promotion in EU5 and Benelux. Galapagos is also eligible to receive up to \$1.27bn in milestones, of which \$600m are dependent on achieving sales targets. However, as part of the broad collaboration with Gilead, Galapagos is responsible for funding 50% of R&D spend.

## Pipeline gaining attention

Gilead has an option for exclusive ex-European rights to all of Galapagos' current and future programmes. Galapagos is responsible for all discovery and development of programmes until the end of Phase II, following which Gilead has the right to opt-in to co-development, and after which costs will be shared equally. With the exception of GLPG1690 and GLPG1972, Gilead will pay \$150m opt-in per programme, with Galapagos eligible for tiered royalties ranging from 20%-24%.

### GLPG1690: novel mechanism of action for fibrosis

- **Peak sales forecast:** \$1.85bn WW in IPF assuming 2023E launches
- **Valuation:** c.€17 per share with a 40% probability of success
- **Next news flow:** Phase IIa NOVESA systemic sclerosis data during 3Q20E; Phase III ISABELA IPF futility analysis during 1Q21E, with efficacy data from 2022E

Phase IIa GLPG1690 idiopathic pulmonary fibrosis (IPF) [FLORA data were encouraging](#). Importantly, there was a signal suggesting that GLPG1690 may stabilise lung function, which, if confirmed in the ongoing ISABELA studies, could be a significant benefit given currently approved drugs Esbriet (pirfenidone) and Ofev (nintedanib) only slow the rate of disease progression. Autotaxin inhibitor GLPG1690 has Orphan Drug designation for IPF in both the US and Europe.

The Phase III ISABELA programme initiated in December 2018, consisting of two identical double-blind placebo-controlled trials evaluating two doses of GLPG1690, 200mg or 600mg once-daily on top of standard of care (pirfenidone, nintedanib, or prior) versus placebo on top of standard of care over 12 months. The primary endpoint is the rate of forced vital capacity (FVC) decline at 12 months, with secondary endpoints including respiratory-related hospitalisations, overall survival, quality of life and safety. A futility analysis will be performed once 30% of patients have completed 12 months treatment, which is expected to occur 1Q21E, with data then expected from 2022E.

Galapagos splits global development costs 50:50 with Gilead, and is eligible for a \$325m milestone on potential US FDA approval of GLPG1690, and 20%-24% royalties on US sales. We forecast \$1.25bn WW peak sales based on a modest 15% penetration of mild-moderate IPF patients. Note 2016 sales of Esbriet and Ofev combined were c.\$1.3bn after only around two years on the US market.

IPF is a core area of focus for Galapagos, with GPR84 antagonist GLPG1205 currently in the Phase IIa PINTA trial for data 1H20E, and GLPG3499 in preclinical development.

GLPG1690 is also in the Phase II NOVESA trial in systemic sclerosis (SSc), for which we expect first data during 3Q20E. Given the high-risk indication, we do not currently ascribe any value to GLPG1690 for SSc.

### GLPG1972: high-risk but potentially high-reward

- **Peak sales forecast:** \$3bn WW in osteoarthritis assuming 2025E launches; Servier has ex-US rights
- **Valuation:** c.€6 per share with a 20% probability of success
- **Next news flow:** Phase II ROCELLA data during 4Q20E triggering Gilead opt-in decision.

GLPG1972 is a novel potent and selective oral ADAMTS-5 inhibitor in development for osteoarthritis (OA). The ADAMTS (A Disintegrin And Metalloproteinase with Thrombospondin motifs) enzymes, in particular ADAMTS-5, have been implicated in the degradation of aggrecan. Aggrecan is a core component of the articular cartilage extracellular matrix and key for cartilage function. Increased aggrecanase activity

initiating a loss of aggrecan is recognised as a trigger factor for OA, preceding more severe cartilage destruction that is characteristic of OA.

In Phase I trials GLPG1972 was safe and well-tolerated, but importantly was also shown to lead to a dose-dependent reduction in blood levels of ARGS neopeptide fragments by up to 50% over a 2-4 week period. ARGS is a biomarker for cartilage breakdown, released on cleavage of aggrecan by ADAMTS-5.

The Phase IIb ROCELLA trial initiated in June 2018, evaluating three once-daily oral doses of GLPG1972 versus placebo in c.850 patients with knee OA for 52 weeks. The primary endpoint is change in cartilage thickness at week 52 as assessed by qMRI imaging of the central medial tibiofemoral compartment. Recruitment completed around six months ahead of schedule in June 2019, with headline data expected during 4Q20E.

GLPG1972 was discovered as part of an OA alliance between Galapagos and Servier, with Servier exercising its ex-US option in July 2017. On completion of the ROCELLA study, Gilead has the option to pay \$250m for US rights, plus up to an additional \$200m if certain endpoints are met, and up to a further \$550m in regulatory and commercial milestones. Galapagos will contribute 50% of development costs for the US. We currently forecast \$3bn WW peak sales, for a c.€6/share NPV at 20% probability. GLPG1972 was granted FDA Fast Track designation in November 2018.

## **Toledo: full steam ahead advancing secretive programme**

- **Peak sales forecast:** \$3bn WW for the broad programme across autoimmune diseases
- **Valuation:** c.€5 per share with a 15% probability of success
- **Next news flow:** Initial GLPG3312 Phase I data potentially 1Q20E; GLPG3970 began Phase I in 3Q19 with multiple Phase II proof-of-concept studies in inflammatory conditions expected to start by YE2020E.

The Toledo programme aims to improve upon disease control rates achieved with current standard of care, with applicability across a number of inflammatory diseases. The programme employs a novel mechanism of action, targeting the interplay between dendritic (sensory) cells and epithelial cells. Preclinical data in a number of inflammatory bowel disease (IBD) models and a rheumatoid arthritis (RA) model suggests substantial reductions in disease activity indexes, superior to other drug classes studied, including JAK-inhibitors.

Galapagos plans to start a Phase II with the first generation Toledo compound GLPG3312 in ulcerative colitis during 2020E. This is despite an undisclosed toxicity with GLPG3312 that prevents oral-systemic delivery. Galapagos expects second-generation compound GLPG3970 to be better tolerated should data from a planned Phase I trial confirm its preclinical profile, then enabling development for a broader range of inflammatory diseases. As the target is likely to be revealed upon Phase II initiation, management is keen to maintain its development timeline advantage, planning up to eight proof-of-concept Phase II studies by YE2020E, some of which could be dose-finding.

Galapagos is very enthusiastic about the programme. Toledo is now the biggest discovery project, with c.40% of discovery efforts for new compounds.

## Price Target €225

Our €225/\$243 per share/ADS Price Target is based on a sum-of-the-parts valuation largely comprising probability-adjusted NPVs for filgotinib, GLPG1690 in IPF, GLPG1972 in osteoarthritis and the broad Toledo programme, together with Net Cash.

### Exhibit 1 - Galapagos Sum-of-the-Parts Valuation

	Indication	Peak Sales (\$mn)	Value (EURmn)	Prob.	Adj. Value (EURmn)	EUR per share
filgotinib	RA, Crohn's, Ulcerative Colitis & Others	6,000	6,760	100%	6,760	104.5
CF Collaboration	Cystic fibrosis	2,000	942	15%	141	2.2
GLPG1690	Idiopathic pulmonary fibrosis	1,850	2,671	40%	1,069	16.5
GLPG1972	Osteoarthritis	3,000	1,953	20%	391	6.0
Toledo	Autoimmune diseases	3,000	2,290	15%	343	5.3
Net Cash/(Debt)			5,772	100%	5,772	89.3
<b>Valuation</b>			<b>20,388</b>		<b>14,475</b>	<b>223.8</b>
Potential Dilution for Funding					0	0.0
<b>Potential Diluted Valuation</b>						<b>223.8</b>

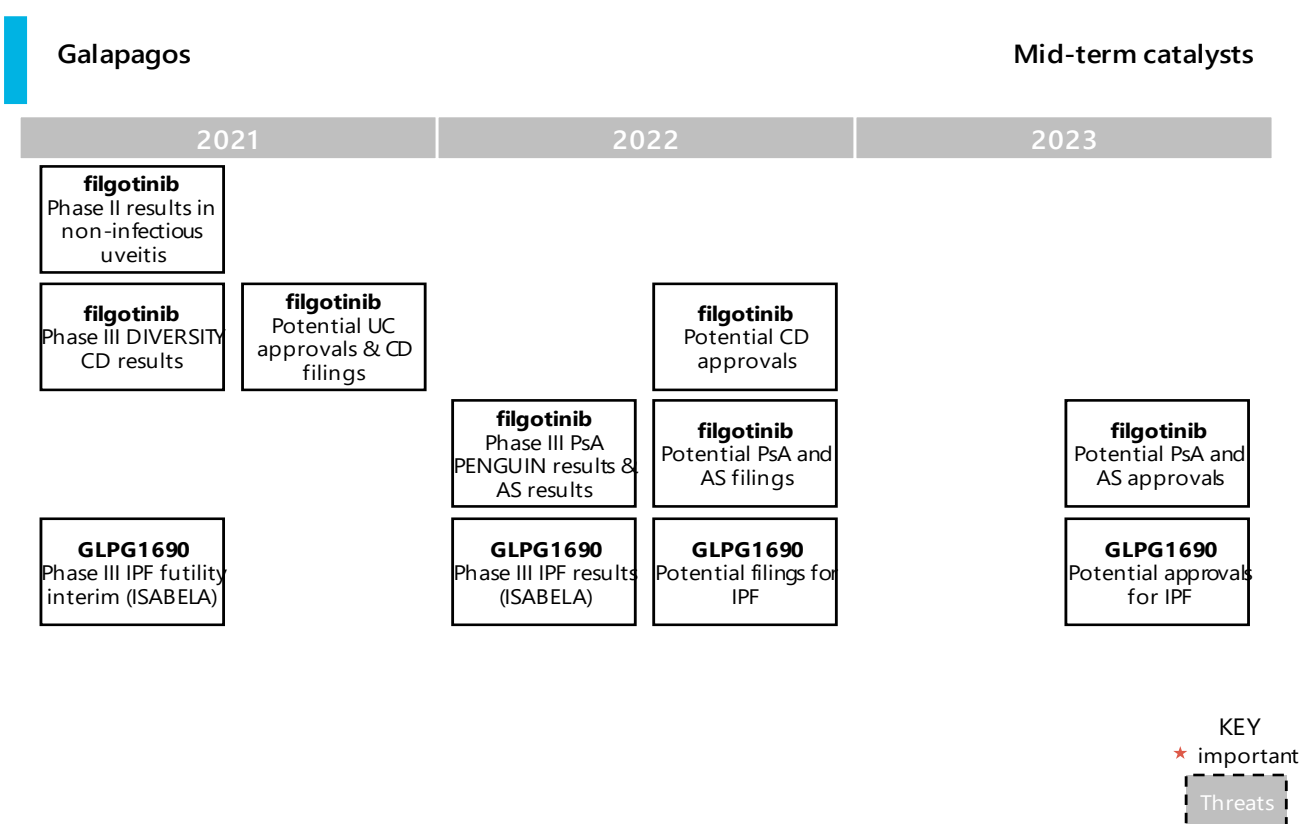
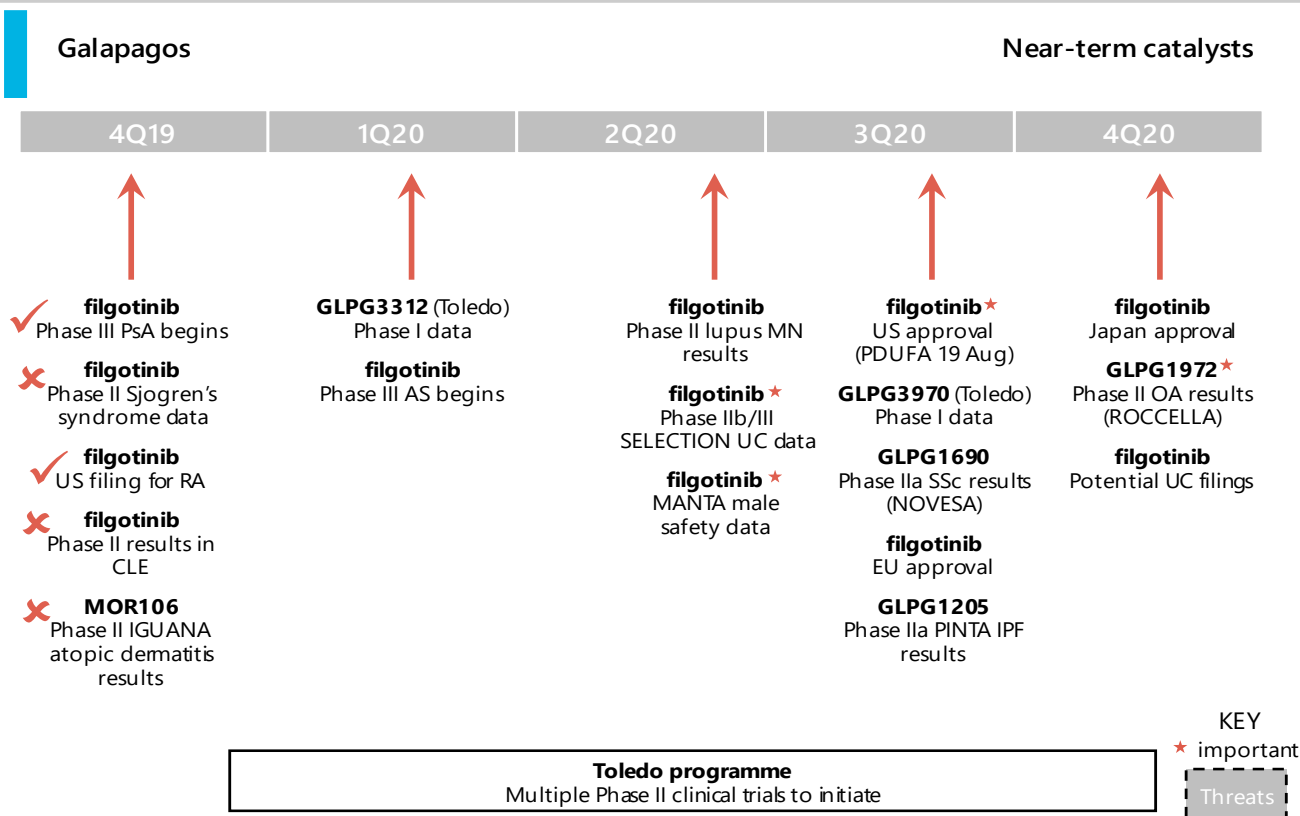
Source: Jefferies estimates

### Exhibit 2 - Galapagos Sources of Potential Upside and Downside Risks

	Upside	EUR per share	Downside	EUR per share
filgotinib regulatory approvals in RA	Major approvals in 2H20E	0.0	Safety concerns	(73.2)
filgotinib Phase III in Crohn's & Ulcerative colitis	Positive data confirm profile	0.0	Efficacy and/or safety concerns	(31.4)
Toledo initial proof-of-concept data	Positive efficacy & safety	5.3	Discontinued or delayed	(5.3)
GLPG1690 Phase III ISABELA in IPF	Positive efficacy & safety	16.5	Efficacy and/or safety concerns	(16.5)
<b>Potential Upside/(Downside)</b>		<b>21.8</b>		<b>(126.4)</b>
<b>Potential Valuation</b>		<b>245.7</b>		<b>97.5</b>

Source: Jefferies estimates

## Exhibit 3 - Galapagos catalysts







## Exhibit 5 - Galapagos Revenue Model

(EUR millions Dec YE)	2020E									
	2019A	1Q20E	2Q20E	3Q20E	4Q20E	2020E	2021E	2022E	2023E	2024E
R&D Revenue	845.0	106.0	106.0	191.0	239.7	642.7	557.9	535.2	627.7	440.1
Other Income	50.9	12.7	11.8	5.9	16.7	47.0	36.0	32.4	29.2	26.2
filgotinib Royalties	0.0	0.0	0.0	0.3	3.2	3.5	40.5	121.5	248.8	385.1
filgotinib Revenues for EU5-Benelux Profit Share	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.2	107.8
Discontinued Operations	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>Total Group Revenue (Prob. Adjusted)</b>	<b>895.9</b>	<b>118.7</b>	<b>117.8</b>	<b>197.2</b>	<b>259.6</b>	<b>693.2</b>	<b>634.3</b>	<b>689.1</b>	<b>920.8</b>	<b>959.3</b>
<b>% Change Year over Year</b>										
R&D Revenue	192.5%	220.8%	80.5%	(69.9%)	101.0%	(23.9%)	(13.2%)	(4.1%)	17.3%	(29.9%)
Other Income	75.5%	61.2%	32.7%	(41.1%)	(31.1%)	(7.7%)	(23.4%)	(10.0%)	(10.0%)	(10.0%)
filgotinib Royalties	n/a	n/a	n/a	n/a	n/a	n/a	1043.1%	200.1%	104.8%	54.8%
Total Group Revenue (Prob. Adjusted)	181.9%	190.1%	74.2%	(69.4%)	81.0%	(22.6%)	(8.5%)	8.6%	33.6%	4.2%

Source: Jefferies estimates, company data

## Exhibit 6 - Galapagos Margin Analysis

	2020E									
	2019A	1Q20E	2Q20E	3Q20E	4Q20E	2020E	2021E	2022E	2023E	2024E
Gross Margin	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Sales & Marketing Expenses	2.7%	10.1%	11.0%	7.4%	6.4%	8.1%	11.4%	12.8%	9.9%	9.8%
General & Admin. Expenses	8.2%	16.9%	19.5%	15.2%	10.4%	14.4%	20.5%	21.1%	17.2%	17.5%
R&D Expenses	47.7%	117.3%	120.7%	73.5%	59.2%	83.7%	105.2%	99.0%	76.4%	79.3%
Operating Income	41.3%	(44.3%)	(51.4%)	3.8%	23.8%	(6.3%)	(38.2%)	(33.7%)	(3.5%)	(6.6%)
Pretax Profit	16.7%	(39.3%)	(46.3%)	6.8%	26.2%	(2.9%)	(32.9%)	(28.7%)	0.2%	(3.0%)
Net Income	16.7%	(39.3%)	(46.3%)	6.8%	26.2%	(2.9%)	(32.9%)	(28.7%)	0.2%	(3.0%)

Source: Jefferies estimates, company data

## Exhibit 7 - Galapagos Profit and Loss Model

(EUR millions except EPS Dec YE)	2020E									
	2019A	1Q20E	2Q20E	3Q20E	4Q20E	2020E	2021E	2022E	2023E	2024E
Revenue	895.9	118.7	117.8	197.2	259.6	693.2	634.3	689.1	920.8	959.3
Cost of Sales	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gross Profit	895.9	118.7	117.8	197.2	259.6	693.2	634.3	689.1	920.8	959.3
Total Operating Expenses	(525.6)	(171.2)	(178.1)	(189.5)	(197.2)	(736.0)	(869.5)	(916.1)	(952.9)	(1,022.4)
Sales & Marketing Expenses	(24.6)	(12.0)	(13.0)	(14.5)	(16.5)	(56.0)	(72.0)	(88.0)	(90.9)	(93.9)
General & Admin. Expenses	(73.7)	(20.0)	(23.0)	(30.0)	(27.0)	(100.0)	(130.0)	(145.6)	(158.7)	(168.2)
R&D Expenses	(427.3)	(139.2)	(142.1)	(145.0)	(153.7)	(580.0)	(667.5)	(682.5)	(703.3)	(760.3)
o/w Acquisition-related Amortisation/Write-dow	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other Operating Income	0.0	(0.1)	(0.2)	(0.3)	(0.5)	(1.1)	(7.5)	(4.9)	0.0	0.0
Operating Exceptionals	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>Operating Income</b>	<b>370.3</b>	<b>(52.6)</b>	<b>(60.6)</b>	<b>7.4</b>	<b>61.9</b>	<b>(43.9)</b>	<b>(242.6)</b>	<b>(231.9)</b>	<b>(32.1)</b>	<b>(63.2)</b>
<b>Adjusted Operating Income</b>	<b>370.3</b>	<b>(52.6)</b>	<b>(60.6)</b>	<b>7.4</b>	<b>61.9</b>	<b>(43.9)</b>	<b>(242.6)</b>	<b>(231.9)</b>	<b>(32.1)</b>	<b>(63.2)</b>
<b>EBITDA</b>	<b>381.3</b>	<b>(48.8)</b>	<b>(56.7)</b>	<b>11.2</b>	<b>65.7</b>	<b>(28.5)</b>	<b>(225.8)</b>	<b>(212.6)</b>	<b>(9.7)</b>	<b>(46.1)</b>
Adjusted EBITDA	381.3	(48.8)	(56.7)	11.2	65.7	(28.5)	(225.8)	(212.6)	(9.7)	(46.1)
Net Financial Income	(38.6)	6.0	6.0	6.0	6.0	24.0	34.0	34.0	34.0	34.0
Exceptionals	(181.6)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Income from Associates & JVs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>Pretax Profit</b>	<b>150.1</b>	<b>(46.6)</b>	<b>(54.6)</b>	<b>13.4</b>	<b>67.9</b>	<b>(19.9)</b>	<b>(208.6)</b>	<b>(197.9)</b>	<b>1.9</b>	<b>(29.2)</b>
<b>Adjusted Pretax Profit</b>	<b>331.7</b>	<b>(46.6)</b>	<b>(54.6)</b>	<b>13.4</b>	<b>67.9</b>	<b>(19.9)</b>	<b>(208.6)</b>	<b>(197.9)</b>	<b>1.9</b>	<b>(29.2)</b>
Taxation	(0.2)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Minority Interests	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>Net Income from Continuing Operations</b>	<b>149.8</b>	<b>(46.6)</b>	<b>(54.6)</b>	<b>13.4</b>	<b>67.9</b>	<b>(19.9)</b>	<b>(208.6)</b>	<b>(197.9)</b>	<b>1.9</b>	<b>(29.2)</b>
Net Income from Discontinued Operations	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>Net Income</b>	<b>149.8</b>	<b>(46.6)</b>	<b>(54.6)</b>	<b>13.4</b>	<b>67.9</b>	<b>(19.9)</b>	<b>(208.6)</b>	<b>(197.9)</b>	<b>1.9</b>	<b>(29.2)</b>
<b>Adjusted Net Income</b>	<b>331.5</b>	<b>(46.6)</b>	<b>(54.6)</b>	<b>13.4</b>	<b>67.9</b>	<b>(19.9)</b>	<b>(208.6)</b>	<b>(197.9)</b>	<b>1.9</b>	<b>(29.2)</b>
WA Basic Shares (mn)	57.4	65.0	65.0	65.0	65.0	65.0	65.5	66.0	66.5	67.0
WA Shares Diluted (mn)	59.0	65.0	65.0	66.6	66.6	65.0	65.5	66.0	68.1	67.0
<b>EPS (EUR)</b>	<b>2.6</b>	<b>(0.7)</b>	<b>(0.8)</b>	<b>0.2</b>	<b>1.0</b>	<b>(0.3)</b>	<b>(3.2)</b>	<b>(3.0)</b>	<b>0.0</b>	<b>(0.4)</b>
<b>Adjusted EPS (EUR)</b>	<b>5.8</b>	<b>(0.7)</b>	<b>(0.8)</b>	<b>0.2</b>	<b>1.0</b>	<b>(0.3)</b>	<b>(3.2)</b>	<b>(3.0)</b>	<b>0.0</b>	<b>(0.4)</b>
Diluted EPS (EUR)	2.5	(0.7)	(0.8)	0.2	1.0	(0.3)	(3.2)	(3.0)	0.0	(0.4)
<b>Diluted Adjusted EPS (EUR)</b>	<b>5.6</b>	<b>(0.7)</b>	<b>(0.8)</b>	<b>0.2</b>	<b>1.0</b>	<b>(0.3)</b>	<b>(3.2)</b>	<b>(3.0)</b>	<b>0.0</b>	<b>(0.4)</b>
<b>Adjusted ADR EPS (\$)</b>	<b>6.5</b>	<b>(0.8)</b>	<b>(0.9)</b>	<b>0.2</b>	<b>1.1</b>	<b>(0.3)</b>	<b>(3.4)</b>	<b>(3.2)</b>	<b>0.0</b>	<b>(0.5)</b>
<b>% Change Year over Year</b>										
Revenue	181.9%	190.1%	74.2%	(69.4%)	81.0%	(22.6%)	(8.5%)	8.6%	33.6%	4.2%
Cost of Sales	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Gross Profit	181.9%	190.1%	74.2%	(69.4%)	81.0%	(22.6%)	(8.5%)	8.6%	33.6%	4.2%
Total Operating Expenses	44.9%	81.8%	59.1%	23.6%	18.7%	40.0%	18.1%	5.4%	4.0%	7.3%
Sales & Marketing Expenses	492.8%	587.3%	235.5%	255.6%	10.9%	127.9%	28.6%	22.2%	3.3%	3.3%
General & Admin. Expenses	106.8%	116.9%	67.7%	5.0%	21.6%	35.7%	30.0%	12.0%	9.0%	6.0%
R&D Expenses	32.3%	67.3%	50.6%	20.2%	19.1%	35.7%	15.1%	2.2%	3.0%	8.1%
Operating Income	926.4%	1.2%	(36.5%)	(98.5%)	372.3%	(111.8%)	(453.0%)	4.4%	86.1%	(96.6%)
Adjusted Operating Income	926.4%	1.2%	(36.5%)	(98.5%)	372.3%	(111.8%)	(453.0%)	4.4%	86.1%	(96.6%)
Pretax Profit	613.7%	4.1%	(15.6%)	(96.1%)	168.9%	(113.2%)	(949.9%)	5.1%	100.9%	(1669.8%)
Adjusted Pretax Profit	1235.6%	4.1%	(15.6%)	(97.2%)	214.5%	(106.0%)	(949.9%)	5.1%	100.9%	(1669.8%)
Net Income	612.1%	4.2%	(15.4%)	(96.3%)	158.8%	(113.3%)	(949.9%)	5.1%	100.9%	(1669.8%)
Adjusted Net Income	1232.9%	4.2%	(15.4%)	(97.3%)	189.1%	(106.0%)	(949.9%)	5.1%	100.9%	(1669.8%)
EPS (EUR)	564.6%	19.6%	3.0%	(96.7%)	157.2%	(111.7%)	(941.9%)	5.8%	100.9%	(1658.1%)
Adjusted EPS (EUR)	1127.8%	19.6%	3.0%	(97.6%)	186.7%	(105.3%)	(941.9%)	5.8%	100.9%	(1658.1%)

Source: Jefferies estimates, company data

## Exhibit 8 - Galapagos Cash Flow Model

(EUR millions Dec YE)	2019A	2020E	2021E	2022E	2023E	2024E
Operating Income	370.3	(43.9)	(242.6)	(231.9)	(32.1)	(63.2)
Depreciation and Amortisation	11.0	15.4	16.8	19.3	22.4	17.1
<b>EBITDA</b>	<b>381.3</b>	<b>(28.5)</b>	<b>(225.8)</b>	<b>(212.6)</b>	<b>(9.7)</b>	<b>(46.1)</b>
Other Adjustments and Exceptionals	3.8	50.0	57.0	61.6	65.3	68.5
Decrease/(Increase) in Inventories	0.0	0.0	0.0	0.0	0.0	0.0
Decrease/(Increase) in Receivables	(7.8)	(2.0)	(7.1)	(2.2)	(9.5)	(1.6)
Increase/(Decrease) in Payables	20.5	(15.3)	22.0	7.6	7.9	12.8
Increase/(Decrease) in Deferred Income	2,804.2	(423.7)	(413.5)	(408.5)	(393.2)	(300.2)
Change in WC	2,816.9	(441.0)	(398.6)	(403.2)	(394.8)	(289.0)
Taxation Paid	(0.1)	(0.1)	0.0	0.0	0.0	0.0
Interest Paid	6.7	(1.0)	(1.0)	(1.0)	(1.0)	(1.0)
<b>Net Cash Flow from Operating Activities</b>	<b>3,208.6</b>	<b>(420.5)</b>	<b>(568.5)</b>	<b>(555.2)</b>	<b>(340.3)</b>	<b>(267.5)</b>
Purchase of Tangible Fixed Assets	(22.4)	(24.3)	(22.2)	(24.1)	(32.2)	(33.6)
Proceeds from Sale of PP&E	0.0	0.0	0.0	0.0	0.0	0.0
Purchase of Intangible Assets	(23.3)	0.0	0.0	0.0	0.0	0.0
(Purchase)/Sale of Investments	(0.1)	0.0	0.0	0.0	0.0	0.0
(Acquisitions)/Disposals of Subsidiaries	0.0	0.0	0.0	0.0	0.0	0.0
Dividends Received from Associates	0.0	0.0	0.0	0.0	0.0	0.0
Interest Received	0.0	25.0	35.0	35.0	35.0	35.0
<b>Net Cash Flow from Investing Activities</b>	<b>(3,764.7)</b>	<b>(24.3)</b>	<b>(22.2)</b>	<b>(24.1)</b>	<b>(32.2)</b>	<b>143.6</b>
Management of Liquid Resources	(3,718.9)	0.0	0.0	0.0	0.0	177.1
Capital Changes	1,340.8	22.0	33.0	38.5	38.5	38.5
Debt Changes	(5.1)	(11.3)	(5.1)	(5.1)	(5.1)	(4.3)
Equity Dividends Paid	0.0	0.0	0.0	0.0	0.0	0.0
Other Financing Cash Flows	0.0	0.0	0.0	0.0	0.0	0.0
<b>Net Cash Flow from Financing Activities</b>	<b>1,335.8</b>	<b>35.7</b>	<b>62.9</b>	<b>68.4</b>	<b>68.4</b>	<b>69.2</b>
Effect of FX on Cash and Cash Equivalents	(10.0)	0.0	0.0	0.0	0.0	0.0
<b>Increase in Cash</b>	<b>769.7</b>	<b>(409.1)</b>	<b>(527.8)</b>	<b>(510.9)</b>	<b>(304.1)</b>	<b>(54.7)</b>
<b>Change in Net Debt</b>	<b>(4,503.7)</b>	<b>397.8</b>	<b>522.7</b>	<b>505.8</b>	<b>299.0</b>	<b>227.6</b>
<b>(Cash Burn)</b>	<b>3,162.8</b>	<b>(444.8)</b>	<b>(590.7)</b>	<b>(579.3)</b>	<b>(372.5)</b>	<b>(301.1)</b>

Source: Jefferies estimates, company data

## Exhibit 9 - Galapagos Balance Sheet Model

(EUR millions Dec YE)	2019A	2020E	2021E	2022E	2023E	2024E
<b>Non-current Assets</b>	<b>202.7</b>	<b>211.6</b>	<b>217.0</b>	<b>221.8</b>	<b>231.6</b>	<b>248.1</b>
Intangible Assets	24.9	23.4	21.9	20.3	18.8	17.3
Property, Plant and Equipment	66.1	76.5	83.4	89.8	101.1	119.1
Investments	14.1	14.1	14.1	14.1	14.1	14.1
Other Long-term Assets	97.6	97.6	97.6	97.6	97.6	97.6
<b>Current Assets</b>	<b>5,865.9</b>	<b>5,458.9</b>	<b>4,938.2</b>	<b>4,429.5</b>	<b>4,134.9</b>	<b>3,904.7</b>
Inventories	0.0	0.0	0.0	0.0	0.0	0.0
Trade Accounts Receivable	17.0	19.0	26.1	28.3	37.8	39.4
Other Current Assets	68.1	68.1	68.1	68.1	68.1	68.1
Cash and Cash Equivalents	5,780.8	5,371.8	4,844.0	4,333.1	4,029.0	3,797.2
<b>Total Assets</b>	<b>6,068.6</b>	<b>5,670.4</b>	<b>5,155.2</b>	<b>4,651.3</b>	<b>4,366.5</b>	<b>4,152.7</b>
<b>Current Liabilities</b>	<b>571.8</b>	<b>549.4</b>	<b>566.4</b>	<b>558.7</b>	<b>472.7</b>	<b>409.6</b>
Trade Accounts Payable	131.4	118.6	141.4	148.2	153.0	165.3
Other Current Liabilities	2.0	2.0	2.0	2.0	2.0	2.0
Accrued Expenses	12.0	9.5	8.7	9.4	12.6	13.1
Deferred Income	414.3	413.5	408.5	393.2	300.2	228.5
Short-term Debt	6.2	0.0	0.0	0.0	0.0	0.0
Leasing Obligations	5.8	5.8	5.8	5.8	5.0	0.7
<b>Non-current Liabilities</b>	<b>2,621.2</b>	<b>2,193.2</b>	<b>1,779.6</b>	<b>1,381.3</b>	<b>1,076.8</b>	<b>848.3</b>
Long-term Debt	0.0	0.0	0.0	0.0	0.0	0.0
Leasing Obligations	19.6	14.5	9.4	4.3	0.0	0.0
Deferred Tax Liabilities	0.0	0.0	0.0	0.0	0.0	0.0
Deferred Income	2,586.3	2,163.5	1,755.0	1,361.8	1,061.6	833.1
Long-term Provisions	15.3	15.3	15.3	15.3	15.3	15.3
<b>Total Shareholders' Equity</b>	<b>2,875.7</b>	<b>2,927.8</b>	<b>2,809.2</b>	<b>2,711.3</b>	<b>2,816.9</b>	<b>2,894.8</b>
Share Capital	287.3	287.3	287.3	287.3	287.3	287.3
Share Premium Account	2,703.6	2,725.6	2,758.6	2,797.1	2,835.6	2,874.1
Other Reserves and Adjustments	(6.0)	(6.0)	(6.0)	(6.0)	(6.0)	(6.0)
Retained Earnings	(109.2)	(79.1)	(230.7)	(367.0)	(299.9)	(260.6)
Minority Interests	0.0	0.0	0.0	0.0	0.0	0.0
<b>Total Liabilities and Shareholders' Equity</b>	<b>6,068.6</b>	<b>5,670.4</b>	<b>5,155.2</b>	<b>4,651.3</b>	<b>4,366.5</b>	<b>4,152.7</b>

Source: Jefferies estimates, company data

## Company Description

### Galapagos

Galapagos is a Belgian biotech company focusing on drug discovery using cells taken from patients with diseases of interest; typically musculoskeletal, CNS and inflammatory disorders plus orphan indications. The company's most advanced product is filgotinib, a JAK1 inhibitor, which has completed Phase III for rheumatoid arthritis and is also in development for Crohn's disease and ulcerative colitis partnered with Gilead. The company has a broad R&D collaboration with Gilead and also has active collaborations with Servier and MorphoSys.

## Company Valuation/Risks

### Galapagos

Our Price Target is based on a sum-of-the-parts valuation largely comprising probability-adjusted NPVs for filgotinib, GLPG1690 in IPF, GLPG1972 in osteoarthritis, and Toledo in autoimmune disorders, plus Net Cash. Risks include: (1) regulatory setbacks for filgotinib; (2) upcoming late-stage pipeline catalysts are high risk; and (3) clinical trial failures.

### Gilead Sciences, Inc.

Our PT is based on a pipeline-adjusted DCF and multiple of our 2020 EPS estimate. Risks: competition, pipeline disappointments, and worse-than-expected sales.

## Analyst Certification:

I, Peter Welford, CFA, certify that all of the views expressed in this research report accurately reflect my personal views about the subject security(ies) and subject company(ies). I also certify that no part of my compensation was, is, or will be, directly or indirectly, related to the specific recommendations or views expressed in this research report.

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## Investment Recommendation Record

(Article 3(1)e and Article 7 of MAR)

Recommendation Published February 21, 2020 , 11:03 ET.  
Recommendation Distributed February 23, 2020 , 19:00 ET.

## Company Specific Disclosures

Jefferies LLC is acting as a financial advisor to Kite Pharma (KITE) on the sale of the company to Gilead Sciences (GILD).

Jefferies Group LLC makes a market in the securities or ADRs of Galapagos.

Jefferies Group LLC makes a market in the securities or ADRs of Gilead Sciences, Inc.

## Explanation of Jefferies Ratings

**Buy** - Describes securities that we expect to provide a total return (price appreciation plus yield) of 15% or more within a 12-month period.

**Hold** - Describes securities that we expect to provide a total return (price appreciation plus yield) of plus 15% or minus 10% within a 12-month period.

**Underperform** - Describes securities that we expect to provide a total return (price appreciation plus yield) of minus 10% or less within a 12-month period.

The expected total return (price appreciation plus yield) for Buy rated securities with an average security price consistently below \$10 is 20% or more within a 12-month period as these companies are typically more volatile than the overall stock market. For Hold rated securities with an average security price consistently below \$10, the expected total return (price appreciation plus yield) is plus or minus 20% within a 12-month period. For Underperform rated securities with an average security price consistently below \$10, the expected total return (price appreciation plus yield) is minus 20% or less within a 12-month period.

**NR** - The investment rating and price target have been temporarily suspended. Such suspensions are in compliance with applicable regulations and/or Jefferies policies.

**CS** - Coverage Suspended. Jefferies has suspended coverage of this company.

**NC** - Not covered. Jefferies does not cover this company.

**Restricted** - Describes issuers where, in conjunction with Jefferies engagement in certain transactions, company policy or applicable securities regulations prohibit certain types of communications, including investment recommendations.

**Monitor** - Describes securities whose company fundamentals and financials are being monitored, and for which no financial projections or opinions on the investment merits of the company are provided.

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Jefferies Franchise Picks include stock selections from among the best stock ideas from our equity analysts over a 12 month period. Stock selection is based on fundamental analysis and may take into account other factors such as analyst conviction, differentiated analysis, a favorable risk/reward ratio and investment themes that Jefferies analysts are recommending. Jefferies Franchise Picks will include only Buy rated stocks and the number can vary depending on analyst recommendations for inclusion. Stocks will be added as new opportunities arise and removed when the reason for inclusion changes, the stock has met its desired return, if it is no longer rated Buy and/or if it triggers a stop loss. Stocks having 120 day volatility in the bottom quartile of S&P stocks will continue to have a 15% stop loss, and the remainder will have a 20% stop. Franchise Picks are not intended to represent a recommended portfolio of stocks and is not sector based, but we may note where we believe a Pick falls within an investment style such as growth or value.

## Risks which may impede the achievement of our Price Target

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## Other Companies Mentioned in This Report

- Gilead Sciences, Inc. (GILD: \$69.70, BUY)

Rating and Price Target History for: Galapagos (GLPG NA) as of 02-20-2020



Rating and Price Target History for: Galapagos (GLPG) as of 02-20-2020



Rating and Price Target History for: Gilead Sciences, Inc. (GILD) as of 02-20-2020



Jefferies LLC is acting as a financial advisor to Kite Pharma (KITE) on the sale of the company to Gilead Sciences (GILD).

**Notes:** Each box in the Rating and Price Target History chart above represents actions over the past three years in which an analyst initiated on a company, made a change to a rating or price target of a company or discontinued coverage of a company.

### Legend:

- I: Initiating Coverage
- D: Dropped Coverage
- B: Buy



H: Hold

UP: Underperform

## Distribution of Ratings

Distribution of Ratings						
			IB Serv./Past12 Mos.		JIL Mkt Serv./Past12 Mos.	
	Count	Percent	Count	Percent	Count	Percent
<b>BUY</b>	1235	52.35%	115	9.31%	10	0.81%
<b>HOLD</b>	960	40.70%	32	3.33%	5	0.52%
<b>UNDERPERFORM</b>	164	6.95%	0	0.00%	0	0.00%

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