



# Q1 2019 Results

### Forward looking statements

This presentation contains forward-looking statements as defined in the Private Securities Litigation Reform Act of 1995, as amended. Forward-looking statements are statements that are not historical facts. These statements include projections and estimates and their underlying assumptions, statements regarding plans, objectives, intentions and expectations with respect to future financial results, events, operations, services, product development and potential, and statements regarding future performance. Forward-looking statements are generally identified by the words "expects", "anticipates", "believes", "intends", "estimates", "plans" and similar expressions. Although Sanofi's management believes that the expectations reflected in such forward-looking statements are reasonable, investors are cautioned that forward-looking information and statements are subject to various risks and uncertainties, many of which are difficult to predict and generally beyond the control of Sanofi, that could cause actual results and developments to differ materially from those expressed in, or implied or projected by, the forward-looking information and statements. These risks and uncertainties include among other things, the uncertainties inherent in research and development, future clinical data and analysis, including post marketing, decisions by regulatory authorities, such as the FDA or the EMA, regarding whether and when to approve any drug, device or biological application that may be filed for any such product candidates as well as their decisions regarding labelling and other matters that could affect the availability or commercial potential of such product candidates, the absence of guarantee that the product candidates if approved will be commercially successful, the future approval and commercial success of therapeutic alternatives, Sanofi's ability to benefit from external growth opportunities, to complete related transactions and/or obtain regulatory clearances, risks associated with intellectual property and any related pending or future litigation and the ultimate outcome of such litigation, trends in exchange rates and prevailing interest rates, volatile economic conditions, the impact of cost containment initiatives and subsequent changes thereto, the average number of shares outstanding as well as those discussed or identified in the public filings with the SEC and the AMF made by Sanofi, including those listed under "Risk Factors" and "Cautionary Statement Regarding Forward-Looking Statements" in Sanofi's annual report on Form 20-F for the year ended December 31, 2018. Other than as required by applicable law, Sanofi does not undertake any obligation to update or revise any forward-looking information or statements.



# Agenda

Key Highlights	Olivier Brandicourt	Chief Executive Officer
Financial Results	Jean-Baptiste de Chatillon	Executive Vice President, Chief Financial Officer
	Olivier Charmeil	Executive Vice President, China and Emerging Markets
	Karen Linehan	Executive Vice President, Legal Affairs and General Counsel
	David Loew	Executive Vice President, Sanofi Pasteur
<b>Q&amp;A Session</b>	Alan Main	Executive Vice President, Consumer Healthcare
	John Reed	Executive Vice President, Global Head of R&D
	Bill Sibold	Executive Vice President, Sanofi Genzyme
	Dieter Weinand	Executive Vice President, Primary Care



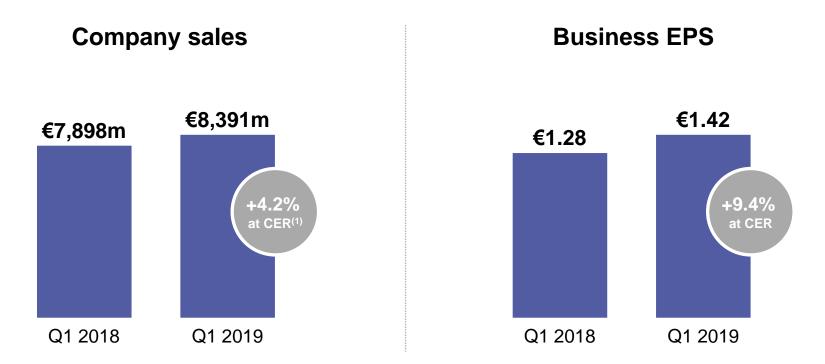




# Key highlights Olivier Brandicourt Chief Executive Officer



# Sanofi continued its return to growth in Q1 2019 with sales increase of 4.2% and EPS growth of 9.4% at CER





# Sales growth in Q1 2019 supported by launches and diminishing impact from LoEs in the U.S.

#### Q1 2019 company sales €8,233m +3.9% at CER +€190m €7,898m €7,741m -€157m +€480m -€178m U.S. Lantus<sup>®</sup>, **EU Generics** Adjusted for Rare Blood Q1 2018 Pharma, Q1 2019 U.S. sevelamer Vaccines & CHC Disposal EU Gx Disposal Disorder at CER



# Double-digit growth in 3 GBUs partially offset by lower sales of Diabetes and Established Products in Primary Care

#### Q1 2019 sales by Global Business Unit

			Growth at CER/CS <sup>(1)</sup>
Com	pany Sales	€8,391m	+3.8%
	Sanofi Genzyme (Specialty Care) <sup>(2)</sup>	€2,019m	+16.0% <sup>(3)</sup>
	Sanofi Pasteur (Vaccines) <sup>(5)</sup>	€873m	+20.1%
	Primary Care <sup>(4)</sup>	€2,285m	-11.8%
000	Consumer Healthcare <sup>(5)</sup>	€1,256m	+0.6%
	China & Emerging Markets (6,7,8)	€1,958m	+10.3%

CER: Constant Exchange Rates; CS: Constant Structure

- Growth at Constant Exchange Rates and Constant Structure adjusting for Bioverativ acquisition (consolidated from March 9, 2018) and disposal of EU Generics business
- (2) Does not include Emerging Markets sales; Includes Bioverativ Products
- (3) At CER growth was +30.8%, including €270m in sales from Rare Blood Disorders
- (4) Includes Diabetes, Cardiovascular and Established Products sales in Mature Markets
- (5) Includes sales in Emerging Markets

- (6) Includes Emerging Markets sales for Specialty Care, Primary Care and Established Products
- (7) Emerging Markets: World excluding U.S., Canada, Western & Eastern Europe (except Eurasia), Japan, South Korea, Australia, New Zealand and Puerto Rico
- (8) Excludes global Consumer Healthcare and Vaccines sales



# Strong performance in Emerging Markets across franchises; Primary Care and CHC sales down in Mature Markets in Q1

### Q1 2019 sales by geography

		<b>(</b>		Ç.	SANOFI
	Specialty Care	Primary Care	Vaccines	Consumer Healthcare	Total sales Growth at CER/CS
Global Sales	<b>€2,327m</b>	<b>€3,935m</b>	<b>€873m</b>	<b>€1,256m</b>	<b>€8,391m</b>
	+18.3%	-4.7%	+20.1%	+0.6%	+3.8%
Mature Markets	<b>€2,019m</b>	<b>€2,285m</b>	<b>€524m</b>	<b>€833m</b>	€5,661m
	+16.0%	-11.8%	+5.7%	-3.0%	-0.6%
Emerging	€308m	<b>€1,650m</b>	<b>€349m</b>	<b>€423m</b>	<b>€2,730m</b>
Markets	+33.6%	+6.6%	+48.3%	+8.1%	+13.6%
,	China & Emergin	ng Markets GRII			•

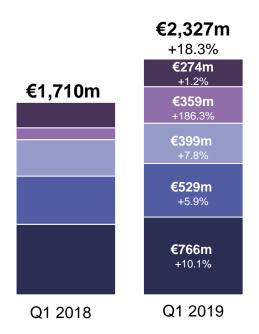
China & Emerging Markets GBU

New GBU structure enables stronger organizational focus



# Specialty Care delivered another record quarter in Q1 despite competitive dynamics in hemophilia

### **Specialty Care Sales evolution**





#### Rare Blood Disorder

Canada tender loss and U.S. competition affected growth in hemophilia



#### **Immunology**

Strong Dupixent® sales driven by adult AD and launch in asthma



#### Oncology<sup>(1)</sup>

Sustained franchise growth due to performance of legacy brands (+8%)



#### **Multiple Sclerosis**

Double-digit growth of Aubagio® maintained in Q1 (+12%)



#### **Rare Disease**

Strong growth driven by Pompe (+11%), Gaucher (+10%) and Fabry (+6%)

## Launch update on first-in-class therapies in Specialty Care



#### **Rare Blood Disorder**



First therapeutic approved for aTTP in the EU and U.S.

aTTP mortality rate of up to 20% with current standard of care<sup>(1)</sup>

- U.S. launch on April 2<sup>nd</sup> with patients treated
- Cablivi® Patient Solutions access program
- Q1 sales in Germany and France of €5m
- Cablivi® EU country launches continue
  - Recently launched in Denmark and Austria
  - Other Nordic countries planned for 2019



### Oncology



First and only FDA approved therapy for CSCC

~7,000 patients die annually in the U.S. from CSCC

- U.S. launch focusing on medical oncologists
- Favorable coverage ensures patient access
- Approved in Brazil on March 25<sup>th</sup> and in Canada on April 10<sup>th</sup>
- EMA approval decision expected in Q2 2019
- Phase 3 adjuvant trial to start in mid-2019



# Dupixent® impressive launch continued in Q1 due to unmet need and best-in-class profile in approved indications



Pipeline in a product

#### **AD** adults

- Positive real world patient experience drives uptake
- Deeper penetration with 45% of U.S. HCPs writing ≥ 4 Rx's
- Ex-U.S. launches outperforming psoriasis biologic analogues

#### **Asthma**

- ~75% of Dupixent® U.S. asthma patients are naïve to biologics
- 90% of U.S. commercial lives covered within the first 5 months
- Positive CHMP decision in EU, launched in Japan

#### **AD adolescents**

- U.S. launch March 11<sup>th</sup>, 2019
- U.S. population is ~1/2 size of adult AD patient population
- Significant disease burden results in high patient demand

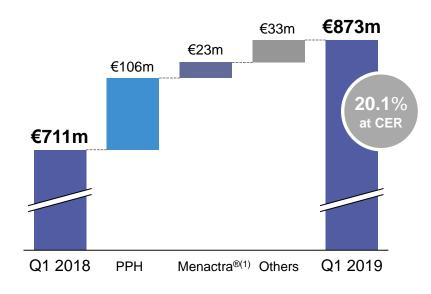
#### Global Q1 Dupixent® sales €329m



# Robust Vaccines growth in Q1 driven largely by pediatric portfolio and Menactra® in emerging markets

- Vaccines sales of €873m, up 20.1%
- PPH vaccines sales grew 26% to €486m
  - China sales: €75m, +208% due to recovery and growth of Pentaxim<sup>®</sup>
  - Other EM: +31% due to expansion in public markets
  - Japan sales: €62m, +93% due to order phasing
- Menactra<sup>®</sup> sales of €112m up 21% reflecting continued strong performance in the Middle East
- Travel and endemic sales of €119 up 14% driven by Rabies vaccine sales in U.S. and Europe

#### Q1 2019 Vaccines sales evolution

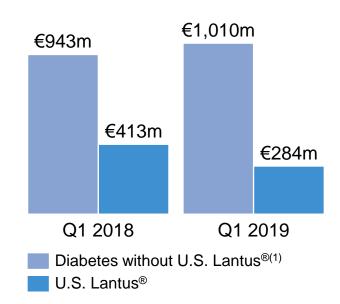


# U.S. pricing dynamics continue to pressure performance of Primary Care core brands

- Primary Care sales €3,935m, down 4.7%
- Diabetes sales €1,294m down 6.9%
  - U.S. sales down -23% to €445m; U.S. Lantus<sup>®</sup> sales -37%
  - Non-U.S. sales +3.5%, driven by Emerging Markets +15.3%
- Praluent<sup>®(2)</sup> sales up 10% to €56m
  - U.S. sales €20m, -27%, reflecting significantly increased rebates
  - EMA approval and U.S. FDA potential approval to reduce the risk of CV events<sup>(3)</sup>
- Established Rx Products sales €2,506m, down 3.8%
  - EU Generics divestment in Q3 2018 led to -9.3% decline at CER

### **Global Diabetes Sales**

(in € million)



All growth at Constant Exchange Rates (CER) and constant structure (CS) adjusting for the EU generics disposal, unless otherwise specified

3) Based on ODYSSEY Outcomes

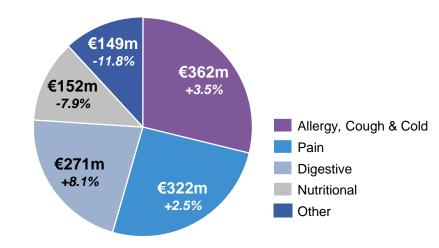
<sup>(1)</sup> Includes Adlyxin®, Admelog®, Amaryl®, Apidra®, Insuman®, Soliqua®, Toujeo® and others

<sup>(2)</sup> In collaboration with Regeneron

# CHC performance supported by growth across key categories in emerging markets in Q1

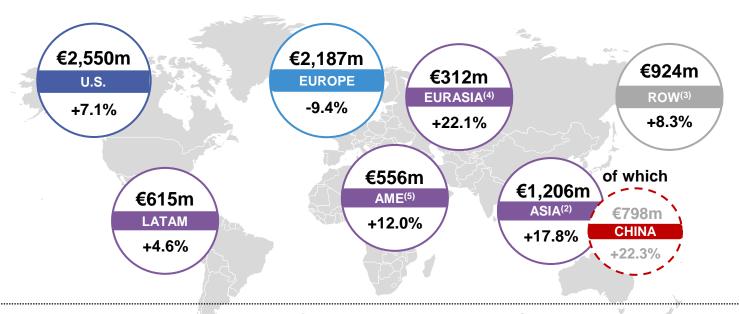
- CHC sales increased 0.6% to €1,256m
- Growth in Allergy, Cough & Cold, Pain, and Digestive
  - Strong sales in Emerging Markets (+8.1%) driven by Latin America region, improved performance in Russia and China
  - Slow start to the U.S. allergy season and weak cough and cold season in Europe decreased sales in mature markets
- Divestments of non-strategic brands
  - Sales impacted by disposals in Europe and Canada

#### Q1 2019 CHC sales by categories



## Double-digit growth in Emerging Markets<sup>(1)</sup> driven primarily by high contribution from China in Q1 2019

### Geographic breakdown of Q1 2019 sales



Emerging Markets sales of €2,730m, up 13.6% at CER in Q1 2019

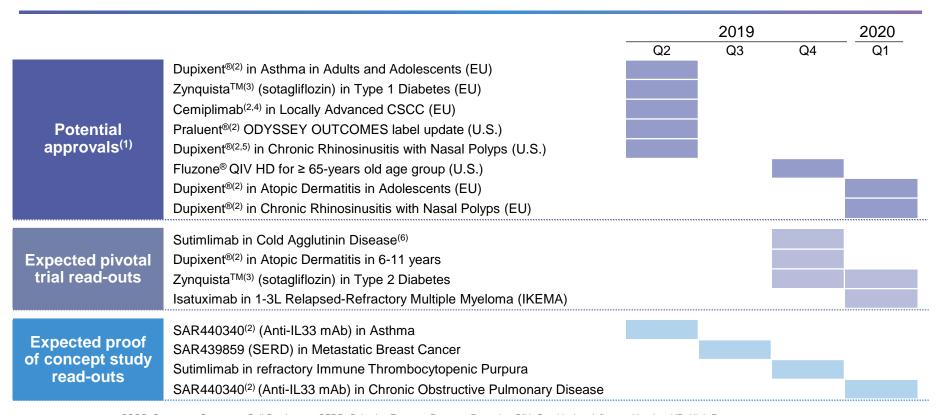


(2) Includes China

<sup>(1)</sup> World excluding U.S., Canada, Europe, Japan, South Korea, Australia, New Zealand, Puerto Rico (4) Eurasia: Russia, Ukraine, Georgia, Belarus, Armenia and Turkey

<sup>(3)</sup> RoW: Japan. South Korea, Canada, Australia, New Zealand and Puerto Rico

## Several potentially significant approvals for new drugs and additional indications over next 12 months





CSCC: Cutaneous Squamous Cell Carcinoma; SERD: Selective Estrogen Receptor Degrader; QIV: Quadrivalent Influenza Vaccine; HD: High-Dose

- (1) Unless specified otherwise, table indicates first potential approval in the U.S. or EU
- (4) Also known as SAR439684 and REGN2810
- (2) In collaboration with Regeneron (5) Breakthrough designation granted, priority review granted
- (3) In collaboration with Lexicon





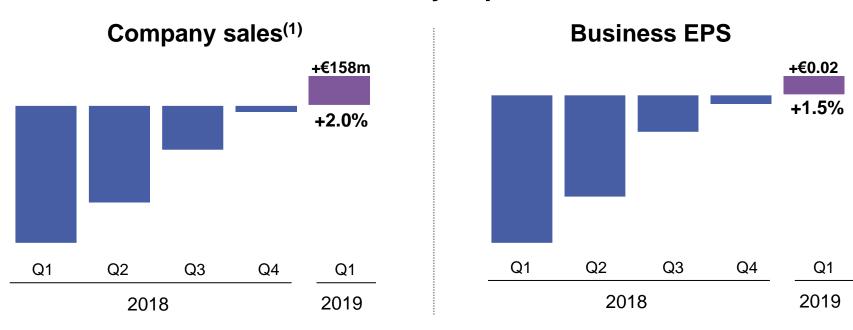
# **Financial results**

**Jean-Baptiste de Chatillon** Executive Vice President, Chief Financial Officer



# FX benefit on sales and EPS in Q1 mainly attributable to strengthening U.S. dollar

### **Currency impact**





# Double-digit BOI growth driven by increased sales, favorable mix and cost containment

€m	Q1 2019	Q1 2018	% Change (CER)
Net Sales	8,391	7,898	+4.2%
Other revenues	322	228	+31.6%
Gross Profit	6,097	5,611	+6.3%
Gross margin %	72.7%	71.0%	
R&D	(1,385)	(1,280)	+4.9%
SG&A	(2,380)	(2,310)	+0.6%
Other current operating income & expenses	(102)	(31)	-
Share of profit/loss from associates	71	74	-
Minority interests	(10)	(30)	-
Business Operating Income	2,291	2,034	+11.3%
Business operating margin	27.3%	25.8%	



CER: Constant Exchange Rates

# Strong business EPS growth in Q1 despite higher net financial expenses and broadly flat share count

€m	Q1 2019	Q1 2018	% Change (reported €)	% Change (CER)
Net Sales	8,391	7,898	+6.2%	+4.2%
Gross Profit	6,097	5,611	+8.7%	+6.3%
Gross Profit margin %	72.7%	71.0%	-	-
Business Operating Income	2,291	2,034	+12.6%	+11.3%
Business operating margin %	27.3%	25.8%	-	-
Effective tax rate	22.0%	22.0%	-	-
Net Financial Income/(Expense)	(45)	2	-	-
<b>Total Business Net Income</b>	1,765	1,598	+10.5%	+9.0%
Average number of Shares	1,245.8	1,248.2	-	-
Business EPS	€1.42	€1.28	+10.9%	+9.4%



CER: Constant Exchange Rates

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## Q1 gross margin benefited from strong China growth and product mix; Opex in-line with expectations





<sup>(2)</sup> Gross Margin at CER was 72.4%

<sup>(1)</sup> Gross Margin is calculated as the ratio of Gross Profit to Company sales (3) Operating Expense growth at CER ex-acquisitions and EU Generics business was +0.7% (SG&A 0.0%: R&D +1.9%)

## Reaffirming FY 2019 financial guidance

**SANOFI** FY 2019 **Business EPS** +3% to +5% at CER<sup>(1,2)</sup> Approximately +2%<sup>(3)</sup> FX impact on Business EPS based on April 2019 average exchange rates



<sup>(1)</sup> Compared to FY2018 and barring major unforeseen adverse events

<sup>(2)</sup> FY 2018 Business EPS was €5.47

<sup>(3)</sup> Difference between variation on a reported basis and variation at CER



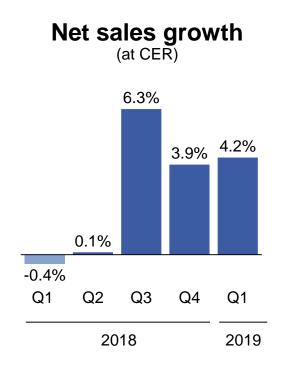


# Key highlights Olivier Brandicourt Chief Executive Officer



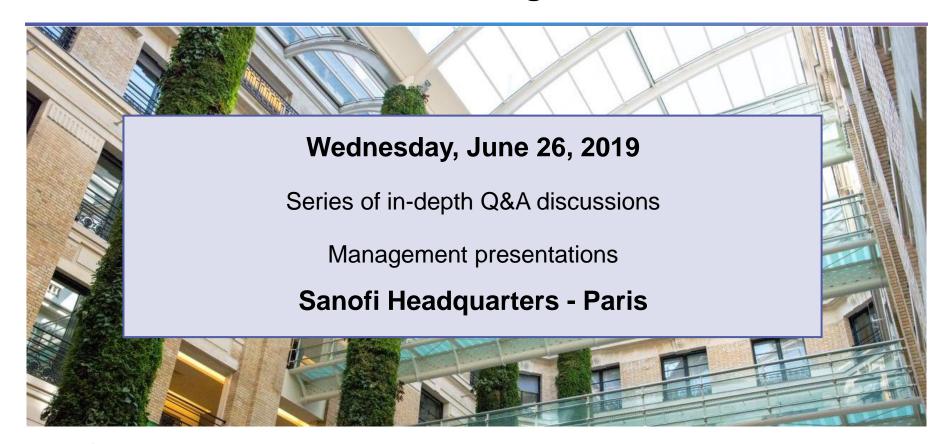
## New growth phase continued in Q1 2019

Improved growth profile extended into Q1 2019 Impressive Dupixent® launch execution U.S. pricing pressures impact Primary Care Strong start with double-digit BOI growth Reaffirming 2019 Full-Year Guidance





## **Save the Date: Meet Sanofi Management**



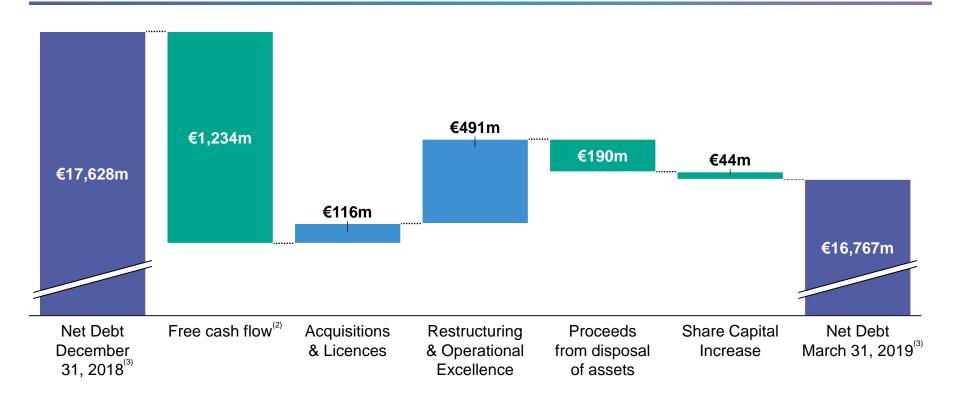






**Finance appendices** 

### Net debt evolution in Q1 2019<sup>(1)</sup>





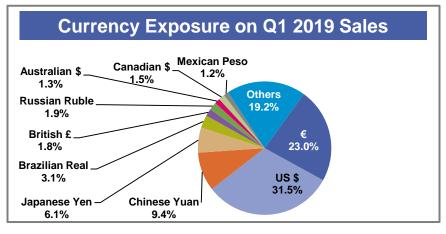
<sup>(1)</sup> Credit ratings reaffirmed: Moody's A1/stable, S&P AA/stable, Scope AA/stable as of March 31, 2019

<sup>(2)</sup> Excluding restructuring costs & similar items

<sup>(3)</sup> Including derivatives related to the financial debt: +€85m at December 31 2018 and +€69m at March 31 2019

## 2019 currency sensitivity and Q1 2019 currency exposure

2019 Business EPS Currency Sensitivity								
Currency	Currency Variation Business EPS Sensitivity							
U.S. Dollar	+ 0.05 USD/EUR	- EUR 0.10						
Japanese Yen	+ 5 JPY/EUR	- EUR 0.02						
Chinese Yuan	+ 0.2 CNY/EUR	- EUR 0.02						
Brazilian Real	+ 0.4 BRL/EUR	- EUR 0.01						
Russian Ruble	+ 10 RUB/EUR	- EUR 0.03						



Currency Average Rates										
	Q1 2018	Q1 2019	% change							
EUR/USD	1.23	1.14	-7.6%							
EUR/JPY	133.16	125.12	-6.0%							
EUR/CNY	7.81	7.67	-1.8%							
EUR/BRL	3.99	4.28	+7.2%							
EUR/RUB	69.93	74.91	+7.1%							



### **Business Net Income Statement – Q1 2019**

Merci beaucou	PI	narmaceuticals		Cons	sumer Healthcar	•		Vaccines			Others (1)			Total Group	
€ million	Q1 2019	Q1 2018	Change	Q1 2019	Q1 2018	Change	Q1 2019	Q1 2018	Change	Q1 2019	Q1 2018	Change	Q1 2019	Q1 2018	Change
Net sales	6,262	5,949	5.3%	1,256	1,238	1.5%	873	711	22.8%	-	-	-	8,391	7,898	6.2%
Other revenues	80	58	37.9%	-	-	-	242	170	42.4%	-	-	-	322	228	41.2%
Cost of Sales	(1,581)	(1,587)	(0.4%)	(396)	(399)	(0.8%)	(572)	(475)	20.4%	(67)	(54)	24.1%	(2,616)	(2,515)	4.0%
As % of net sales	(25.2%)	(26.7%)		(31.5%)	(32.2%)		(65.5%)	(66.8%)					(31.2%)	(31.8%)	
Gross Profit	4,761	4,420	7.7%	860	839	2.5%	543	406	33.7%	(67)	(54)	24.1%	6,097	5,611	8.7%
As % of net sales	76.0%	74.3%		68.5%	67.8%		62.2%	57.1%					72.7%	71.0%	
Research and development expenses	(1,073)	(978)	9.7%	(35)	(28)	25.0%	(133)	(126)	5.6%	(144)	(148)	(2.7%)	(1,385)	(1,280)	8.2%
As % of net sales	(17.1%)	(16.4%)		(2.8%)	(2.3%)		(15.2%)	(17.7%)					(16.5%)	(16.2%)	
Selling and general expenses	(1,275)	(1,254)	1.7%	(394)	(389)	1.3%	(173)	(153)	13.1%	(538)	(514)	4.7%	(2,380)	(2,310)	3.0%
As % of net sales	(20.4%)	(21.1%)		(31.4%)	(31.4%)		(19.8%)	(21.5%)					(28.4%)	(29.2%)	
Other operating income/expenses	(87)	(7)		11	5		-	2		(26)	(31)		(102)	(31)	
Share of profit/loss of associates* and joint-ventures	71	75		-	-		-	(1)		-	-		71	74	
Net income attributable to non controlling interests	(6)	(26)		(4)	(4)		-	-		-	-		(10)	(30)	
Business operating income	2,391	2,230	7.2%	438	423	3.5%	237	128	85.2%	(775)	(747)	3.7%	2,291	2,034	12.6%
As % of net sales	38.2%	37.5%		34.9%	34.2%		27.1%	18.0%					27.3%	25.8%	
										Financial incom	ie & expenses		(45)	2	
										Income tax exp	enses		(481)	(438)	
										Tax rate**			22.0%	22.0%	
										Business net in	ncome		1,765	1,598	10.5%
										As % of net sa	les		21.0%	20.2%	
										Business earn	ings / share (in €	)***	1.42	1.28	10.9%



Net of tax

<sup>\*\*</sup> Determined on the basis of Business income before tax, associates, and non-controlling interests.

<sup>\*\*\*</sup> Based on an average number of shares outstanding of 1,245.8 million in the first quarter of 2019 and 1,248.2 million in the first quarter of 2018.

<sup>(1)</sup> Other includes the cost of global support functions (Medical Affairs, External Affairs, Finance, Human Resources, Information Solution & Technologies, Sanofi Business Services, etc.)

## **Consolidated Income Statements**

€ million	Q1 2019	Q1 2018
Net sales	8,391	7,898
Other revenues	322	228
Cost of sales	(2,618)	(2,545)
Gross profit	6,095	5,581
Research and development expenses	(1,385)	(1,280)
Selling and general expenses	(2,376)	(2,312)
Other operating income	64	25
Other operating expenses	(166)	(56)
Amortization of intangible assets	(557)	(458)
Impairment of intangible assets	(5)	(3)
Fair value remeasurement of contingent consideration	60	(56)
Restructuring costs and similar items	(321)	(191)
Other gains and losses and litigation <sup>(1)</sup>	-	(49)
Operating income	1,409	1,201
Financial expenses	(106)	(95)
Financial income	52	97
Income before tax and associates and joint ventures	1,355	1,203
Income tax expense	(255)	(187)
Share of profit / loss of associates and joint ventures	47	30
Net income excluding the held for exchange Animal Health business	1,147	1,046
Net income from the held for exchange Animal Health Business	-	(1)
Net income	1,147	1,045
Net income attributable to non-controlling interests	10	29
Net income attributable to equity holders of Sanofi	1,137	1,016
Average number of shares outstanding (million)	1,245.8	1,248.2
Earnings per share excluding the held for exchange Animal Health Business (in euros)	0.91	0.81
IFRS Earnings per share (in euros)	0.91	0.81



# Reconciliation of Business Net Income to consolidated Net income attributable to equity holders of Sanofi – Q1 2019

€ million	Q1 2019	Q1 2018	Change
Net income attributable to equity holders of Sanofi	1,137	1,016	11.9%
Amortization of intangible assets <sup>(1)</sup>	557	458	
Impairment of intangible assets	5	3	
Fair value remeasurement of contingent consideration	(60)	56	
Expenses arising from the impact of business combinations on inventories	3	30	
Other expenses related to business combinations	-	2	
Restructuring costs and similar items	321	191	
Other gains and losses, and litigation (2)	-	49	
Effects of IFRS 16 on Lease accounting (3)	4	-	
Tax effect of items listed above:	(227)	(185)	
Amortization & impairment of intangible assets Fair value remeasurement of contingent consideration Expenses arising from the impact of business combinations on inventories Other expenses related to business combinations Restructuring costs and similar items Other tax effects	(138) (4) - (95) 10	(122) (6) (6) (1) (52) 2	
Other tax items (4)	-	(66)	
Share of items listed above attributable to non-controlling interests	-	(1)	
Restructuring costs of associates and joint-ventures, and expenses arising from the impact of acquisitions on associates and joint-ventures	25	44	
Animal Health items	-	1	
Business net income	1,765	1,598	10.5%
IFRS earnings per share <sup>(5)</sup> (in euros)	0.91	0.81	

- (1) Of which related to amortization expense generated by the remeasurement of intangible assets as part of business combinations: €527 million in the first quarter of 2019 and €425 million in the first quarter of 2018.
- (2) In 2018, separation costs for the European Generics business divestiture.
- (3) Impact of new lease standard IFRS 16, is effective January 1, 2019 using the modified retrospective transition method (no restatement of prior periods), since Business Net Income remains reported as previously under IAS 17 and related interpretations for comparison purposes.
- (4) In 2018, mainly due to US tax reform.
- (5) Based on an average number of shares outstanding of 1,245.8 million in the first quarter of 2019 and 1,248.2 million in the first quarter of 2018.







Research & Development appendices

## R&D Pipeline – New Molecular Entities(\*)

Developed in collaboration with Regeneron

Acid Sphingomyelinase Deficiency also known as Niemann Pick type B

	Pha: (Total			Phas (Total			Phase 3 (Total: 7)	Registration (Total: 2)
	SAR441344 <sup>(**)(1)</sup> Anti-CD40L mAb Multiple Sclerosis	<b>BIVV001</b> (*') <sup>(5)</sup> rFVIIIFc – vWF – XTEN <sup>(6)</sup> Hemophilia A	SAR440340(** Anti-IL33 m/ Atopic Derma	Ab	SAR42245 ABCA4 gene Stargardt D	therapy	<b>isatuximab</b> Anti-CD38 mAb 3L RRMM (ICARIA)	cemiplimab(")(12) PD-1 inhibitor mAb Advanced CSCC (EU)
	SAR408701 Maytansin-loaded anti-CEACAM5 mAb, Solid Tumors	ST400(")(7) Ex Vivo ZFN Gene-Edited Cell Therapy, Beta thalassemia	SAR15659 IL4/IL13 bispecif Systemic Sclero	ic mAb	<b>SAR44216</b> BTK inhil Multiple Sc	bitor	<b>avalglucosidase alfa</b> Neo GAA Pompe Disease	<b>Zynquista<sup>TM(**)(20)</sup></b> Oral SGLT-1&2 inhibitor Type 1 Diabetes (U.S./EU)
	SAR439459 anti-TGFb mAb Advanced Solid Tumors	BIVV003(")(7) Ex Vivo ZFN Gene-Edited Cell Therapy, Sickle Cell Disease	R olipudase al rhASM AS Deficiency		HIV Viral vector prime & vaccin	& rgp120 boost	venglustat Oral GCS inhibitor ADPKD <sup>(17)</sup>	
	REGN5458("X2) Anti-BCMA-CD3 bispecific mAb Relapsing Refractory MM	SAR443060 <sup>(**)(8)</sup> RIPK1 inh <sup>(9)</sup> Amyotrophic Lateral Sclerosis	SAR339379 miRNA-21 Alport Syndro		SP0232 <sup>()</sup> Respiratory syn Monoclonal A	ncytial virus	<b>fitusiran</b> RNAi targeting anti-thrombin Hemophilia A and B	
	REGN4018(")(2) Anti-MUC16-CD3 bispecific mAb Ovarian Cancer	Next Gen PCV(**)(10) Pneumococcal Conjugate Vaccines					<b>sutimlimab</b> <sup>(18)</sup> Anti Complement C1s mAb Cold Agglutinin Disease	
	SAR439859 SERD Metastatic Breast Cancer	Herpes Simplex Virus Type 2 HSV-2 therapeutic vaccine	R Registrational	Study (other than	ın Phase 3)		SAR341402 Rapid acting insulin Type 1/2 Diabetes	
	SAR442720 <sup>(**)(3)</sup> SHP2 inhibitor Solid Tumors	Respiratory syncytial virus Infants 4-month and older Vaccines	O Opt-in rights p Immuno-inflar Oncology		MS & Neuro	exercised yet	efpeglenatide(")(19) Long-acting GLP-1 agonist Type 2 Diabetes	
	<b>SAR440234</b> T cell engaging multi spe mAb Leukemia	SAR441169(**)( <sup>11)</sup> RORC (ROR gamma T) antagonist, Psoriasis	Rare Disease	_	Diabetes Cardiovascular & Vaccines	metabolism		
	SAR441000(")(4) Cytokine mRNA Solid tumor	(3) Developed in collaboration with	Sanofi has opt-in rights h REVOLUTION Medicines		(	(15) Developed	on of out-licensing partner ongoing in collaboration with Principia in collaboration with AstraZeneca	
Ç	Solid tumor  (2) Regenerally industry production in the REVOLUTION Medicines (15) Developed in Collaboration with REVOLUTION Medicines (16) Developed in Collaboration with REVOLUTION Medicines (17) Autosomal Don (18) Sandi product for which Sobi has opt-in rights in SOBI territories (18) Recombinant Coagulation Factor VIII Fe – von Willebrand Factor – XTEN Fusion protein (19) Developed in Collaboration with Sangamo (20) Developed in Collaboration with Denali (20) Developed in Collaboration with Denali (21) Proceedings and the Collaboration with Denali (22) Proceedings and the Collaboration with Denali (33) Developed in Collaboration with Denali (44) Developed in Collaboration with Denali (55) Developed in Collaboration with Denali (66) Developed in Collaboration with Denali (77) Developed in Collaboration with Denali (88) Developed in Collaboration with Denali					Dominant Polycystic Kidney Disease		

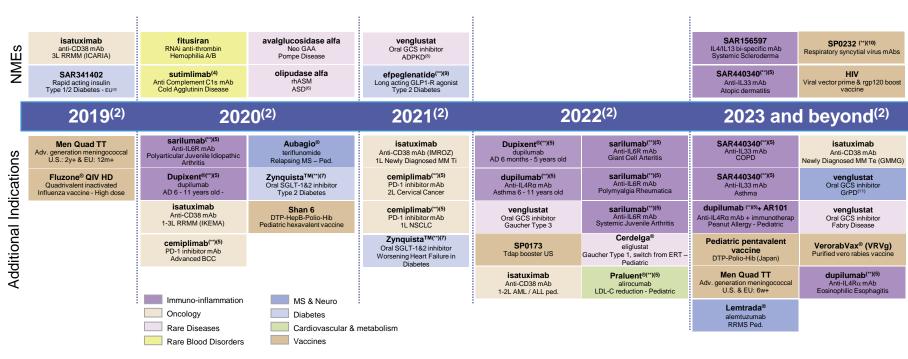


## Additional Indications(\*)

Phase 1 (Total : 5)		se 2		<b>Phase 3</b> (Total : 21)				
SAR439459 + cemiplimab(*')(1) Anti-TGFb mAb + PD-1 inh mAb Advanced Solid Tumors	<b>dupilumab</b> (**)(1) Anti-IL4Rα mAb Grass Immunotherapy	isatuximab + cemiplimab(*')(1) Anti-CD38 mAb + PD-1 inh mAb Relapsing Refractory MM	<b>dupilumab</b> (" <sup>*)</sup> (1) Anti-IL4Rα mAb Asthma 6 - 11 years old	<b>Isatuximab</b> Anti-CD38 mAb Newly Diag. MM Te <sup>(9)</sup> (GMMG)	<b>dupilumab<sup>(**)(1)</sup></b> Anti-IL4Rα mAb Asthma 12y+ (EU)			
Cemiplimab(")(1) + REGN4018(2) PD-1 inh mAb + Anti-MUC16-CD3 bispe mAb - Ovarian Cancer	R sarilumab(**)(¹) Anti-IL6R mAb Polyarticular JIA(®)	isatuximab + cemiplimab(*')(1) Anti-CD38 mAb + PD-1 inh mAb Advanced Malignancies	<b>dupilumab<sup>(*)</sup>(¹)</b> Anti-IL4Rα mAb Eosinophilic Esophagitis	<b>isatuximab</b> Anti-CD38 mAb 1-3L RRMM (IKEMA)	<b>Dupixent<sup>®(**)(1)</sup></b> dupilumab AD 12 − 17 years old (EU)			
SAR439859 + palbociclib SERD + CDK4/6 inh Metastatic Breast Cancer	<b>sarilumab</b> <sup>(+*)(1)</sup> Anti-IL6R mAb Systemic Juvenile Arthritis	isatuximab + cemiplimab(*')(1) Anti-CD38 mAb + PD-1 inh mAb Lymphoma	<b>Dupixent<sup>®(**)</sup>(¹)</b> dupilumab AD 6 – 11 years old	Aubagio® teriflunomide RMS – Pediatric	<b>dupilumab<sup>(**)(1)</sup></b> Anti-IL4Rα mAb CRSwNP			
<b>sutimlimab</b> <sup>(3)</sup> Anti Complement C1s mAb Immune Thrombocytopenic Purpura	SAR440340(**)(1) Anti-IL33 mAb COPD	isatuximab + atezolizumab <sup>(7)</sup> Anti-CD38 mAb + PD-L1 inh mAb mCRC	<b>Dupixent<sup>®(**)(1)</sup></b> dupilumab AD 6 months - 5 years old	<b>Lemtrada</b> ® alemtuzumab RRMS - Pediatric	Praluent®(")(1) alirocumab CV events reduction (U.S.)			
<b>SAR443060<sup>(4)</sup></b> RIPK1 inh <sup>(5)</sup> Alzheimer's Disease	dupilumab <sup>(**)(1)</sup> + AR101 Anti-IL4Rα mAb + Immunotherapy Peanut Allergy - Pediatric	isatuximab + atezolizumab <sup>(7)</sup> Anti-CD38 mAb + PD-L1 inhibitor mAb Solid Tumors	sarilumab("')(1) Anti-IL6R mAb Giant Cell Arteritis	<b>Zynquista<sup>TM(**)(10)</sup></b> Oral SGLT-1&2 inh. Worsening Heart Failure in Diabetes	Fluzone® QIV HD Quadrivalent inactivated Influenza vaccine - High dose			
	<b>SAR440340(**)(1)</b> Anti-IL33 mAb Asthma	<b>Venglustat</b> Oral GCS inhibitor Fabry Disease	<b>sarilumab<sup>(**)(1)</sup></b> Anti-IL6R mAb Polymyalgia Rheumatica	<b>Zynquista<sup>TM(**)(10)</sup></b> Oral SGLT-1&2 inhibitor Type 2 Diabetes				
	dupilumab(**)(1) Anti-IL4Rq mAb COPD	<b>Venglustat</b> Oral GCS inhibitor Gaucher Type 3	<b>cemiplimab(**)(1)</b> PD-1 inh mAb 1L NSCLC	Cerdelga® Eliglustat Gaucher T1, ERT switch Pediatric				
	R cemiplimab(**)(1) PD-1 inhibitor mAb Advanced Basal Cell Carcinoma	<b>Venglustat</b> Oral GCS inhibitor Gaucher related Parkinson's Dis.	cemiplimab(**)(1)+ chemotherapy PD-1 inh mAb + chemotherapy 1L NSCLC	Praluent® (**)(1) Alirocumab LDL-C reduction - Pediatric				
Registrational study (other than Phase 3)	Isatuximab Anti-CD38 mAb 1-2L AML / ALL pediatrics	VerorabVax® (VRVg) Purified vero rabies vaccine	cemiplimab(**)(1) PD-1 inhibitor mAb 2L Cervical Cancer	Men Quad TT Advanced generation meningococcal ACYW conjugate vaccine	Immuno-inflammation			
Opt-in rights products for which rights have not been exercised yet		SP0173 Tdap booster US	<b>Isatuximab</b> Anti-CD38 mAb 1L Newly Diag. MM Ti <sup>(8)</sup> (IMROZ)	Pediatric pentavalent vaccine DTP-Polio-Hib Japan	Oncology  Rare Diseases			
(1) Developed in collaboration with Reg (2) Regeneron product for which Sanof (3) Also known as BIVV009 (4) Developed with Denali (5) Receptor-interacting serine/threonir (6) JIA: Juvenile Idiopathic Arthritis	Í has opt-in rights         (8)         Transplant (9)           (9)         Transplant (10)         Developed (10)           ne-protein kinase 1         (*)         Phase of projects (10)		rights on some of these products	Shan 6 DTP-HepB-Polio-Hib Pediatric hexavalent vaccine	Rare Blood Disorders  MS & Neuro  Diabetes  Cardiovascular & metabolis  Vaccines			



## **Expected Submission Timeline**(1)





Projects within a specified year are not arranged by submission timing

<sup>3)</sup> Submission strategy for the U.S. under evaluation

<sup>(4)</sup> Also known as BIVV009

<sup>(5)</sup> Developed in collaboration with Regeneron

<sup>(6)</sup> Acid Sphingomyelinase Deficiency

<sup>(7)</sup> Developed in collaboration with Lexicon

<sup>(8)</sup> Autosomal Dominant Polycystic Kidney Disease

Developed in collaboration with Hanmi

<sup>(10)</sup> Developed in collaboration with AstraZeneca

<sup>(11)</sup> Gaucher related Parkinson's Disease

<sup>(\*\*)</sup> Partnered and/or in collaboration – Sanofi may have limited or shared rights on some of these products

### **Pipeline Movements Since Q4 2018**

**Additions** Removals dupilumab(\*\*)(1) Fluzone® QIV HD Registration Anti-IL4Ra mAb Quadrivalent inactivated **CRSwNP** Influenza vaccine - High dose) Phase 3 isatuximab dupilumab(\*\*)(1) Phase 2 Anti-CD38 mAb Anti-IL4Ra mAb 1-2L AML / ALL pediatrics COPD SAR442168(\*\*)(2) BTK inhibitor Multiple Sclerosis SAR441169 (\*\*)(3) Phase 1 RORC (ROR gamma T) antagonist **Psoriasis** 



<sup>(1)</sup> Developed in collaboration with Regeneron

<sup>(2)</sup> Developed in collaboration with Principia

<sup>(3)</sup> Developed in collaboration with Lead Pharma

<sup>\*)</sup> Partnered and/or in collaboration – Sanofi may have limited or shared rights on some of these products

## **R&D Pipeline Summary – Total Projects**<sup>(1)</sup>

	Phase 1	Phase 2	Phase 3	Registration	TOTAL
Immuno-inflammation	1	9	6	3	19
Oncology	11	7	7	1	26
Rare Diseases	0	4	3	0	7
Rare Blood Disorders	4	0	2	0	6
Multiple Sclerosis and Neurology	3	3	2	0	8
Diabetes	0	0	4	1	5
Cardiovascular Disease	0	0	1	1	2
Vaccines	3	4	3	1	11
TOTAL	22	27	28	7	
	Δ	.9	35		84



# **Expected R&D Milestones**

Products	Expected milestones	Timing
Dupixent®	EU regulatory decision in Asthma in Adult and Adolescent patients	Q2 2019
Zynquista™ (sotagliflozin)	EU.regulatory decision in Type 1 Diabetes	Q2 2019
cemiplimab	EU regulatory decision in Locally Advanced Cutaneous Squamous Cell Carcinoma	Q2 2019
Praluent®	U.S. regulatory decision in CV events reduction ODYSSEY OUTCOMES	Q2 2019
Dupixent®	U.S. regulatory decision in Chronic Rhinosinusitis with Nasal Polyps	Q2 2019
SAR440340 (Anti-IL33 mAb)	Proof of concept study read-out in asthma	Q2 2019
SAR439859 (SERD)	Proof of concept study read-out in metastatic Breast Cancer	Q3 2019
sutimlimab	Proof of concept study read-out in refractory Immune Thrombocytopenic Purpura	Q4 2019
Fluzone® QIV HD	U.S. regulatory decision for ≥ 65-year old age group	Q4 2019
sutimlimab	Pivotal trial read-out in Cold Agglutinin Disease	Q4 2019
Dupixent®	Pivotal trial read-out in Atopic Dermatitis in 6-11 years	Q4 2019
Zynquista <sup>™</sup> (sotagliflozin)	Expected pivotal trial read-out in Type 2 Diabetes	Q4 2019 – Q1 2020
Dupixent®	EU regulatory decision in Atopic Dermatitis in Adolescent patients	Q1 2020
Dupixent <sup>®</sup>	EU regulatory decision in Chronic Rhinosinusitis with Nasal Polyps	Q1 2020
isatuximab	Pivotal trial read-out in 1-3L RRMM (IKEMA)	Q1 2020
SAR440340 (Anti-IL33 mAb)	Proof of concept study read-out in Chronic Obstructive Pulmonary Disease	Q1 2020

