

Merck KGaA, Darmstadt, Germany 33rd Annual J.P. Morgan Healthcare Conference

Belen Garijo – Member of the Executive Board, CEO Healthcare Luciano Rossetti di Valdalbero – Head of Global Research and Development Biopharmaceuticals Merck KGaA Darmstadt · Germany

San Francisco, January 12, 2015



Disclaimer Publication of Merck KGaA, Darmstadt, Germany. In the United States and Canada the subsidiaries of Merck KGaA, Darmstadt, Germany operate under the umbrella brand EMD.

To reflect such fact and to avoid any misconception of the reader of the publication certain logos, terms and business descriptions of the publication have been substituted or additional descriptions have been added. This version of the publication, therefore, slightly deviates from the otherwise identical version of the publication provided outside the United States and Canada.

Disclaimer



Cautionary Note Regarding Forward-Looking Statements

This communication may include "forward-looking statements." Statements that include words such as "anticipate," "expect," "should," "intend," "project," "seek," "believe," "will," and other words of similar meaning in connection with future events or future operating or financial performance are often used to identify forward-looking statements. All statements in this communication, other than those relating to historical information or current conditions, are forward-looking statements. We intend these forward-looking statements to be covered by the safe harbor provisions for forward-looking statements in the Private Securities Litigation Reform Act of 1995. These forward-looking statements are subject to a number of risks and uncertainties, many of which are beyond control of Merck KGaA, Darmstadt, Germany, which could cause actual results to differ materially from such statements.

Risks and uncertainties relating to the proposed transaction with Sigma-Aldrich Corporation ("Sigma-Aldrich") include, but are not limited to: the risk that regulatory or other approvals required for the transaction are not obtained or are obtained subject to conditions that are not anticipated; competitive responses to the transaction; litigation relating to the transaction; uncertainty of the expected financial performance of the combined company following completion of the proposed transaction; the ability of Merck KGaA, Darmstadt, Germany, to achieve the cost-savings and synergies contemplated by the proposed transaction within the expected time frame; the ability of Merck KGaA, Darmstadt, Germany, to promptly and effectively integrate the businesses of Sigma-Aldrich and Merck KGaA, Darmstadt, Germany; the effects of the business combination of Merck KGaA, Darmstadt, Germany, and Sigma-Aldrich, including the composed transaction on certain employee benefit plans of Merck KGaA, Darmstadt, Germany, and Sigma-Aldrich; and disruption from the proposed transaction making it more difficult to maintain relationships with customers, employees or suppliers.

Additional risks and uncertainties include, but are not limited to: the risks of more restrictive regulatory requirements regarding drug pricing, reimbursement and approval; the risk of stricter regulations for the manufacture, testing and marketing of products; the risk of destabilization of political systems and the establishment of trade barriers; the risk of a changing marketing environment for multiple sclerosis products in the European Union; the risks of discontinuing development projects and regulatory approval of developed medicines; the risk of a temporary ban on products/production for on-registration of products due to non-compliance with quality standards; the risks of an import ban on products to the United States due to an FDA warning letter; the risks of dependency on suppliers; risks due to product-related and patent law disputes; risks from antitrust law proceedings; risks from drug pricing by the divested Generics Group; risks in human resources; risks from e-crime and cyber attacks; risks due to failure of business-critical information technology applications or to failure of data center capacity; environmental and safety risks; unanticipated contract or regulatory issues; a potential downgrade in the rating of the indebtedness of Merck KGaA, Darmstadt, Germany, or Sigma-Aldrich; downgrade in the caluations; the impact of future regulatory or legislative actions; and the risks and uncertainties detailed by Sigma-Aldrich with respect to its business as described in its reports and documents filed with the U.S. Securities and Exchange Commission (the "SEC").

The foregoing review of important factors should not be construed as exhaustive and should be read in conjunction with the other cautionary statements that are included elsewhere, including the Report on Risks and Opportunities Section of the most recent annual report and quarterly report of Merck KGaA, Darmstadt, Germany, and the Risk Factors section of Sigma-Aldrich's most recent reports on Form 10-Q. Any forward-looking statements made in this communication are qualified in their entirety by these cautionary statements, and there can be no assurance that the actual results or developments anticipated by us will be realized or, even if substantially realized, that they will have the expected consequences to, or effects on, us or our business or operations. Except to the extent required by applicable law, we undertake no obligation to update publicly or revise any forward-looking statement, whether as a result of new information, future developments or otherwise.



Agenda

The Group

Strategy update Biopharmaceuticals

New R&D focus

Conclusion

A balanced portfolio of four divisions





We have added scale while strengthening the attractiveness of assets in our portfolio

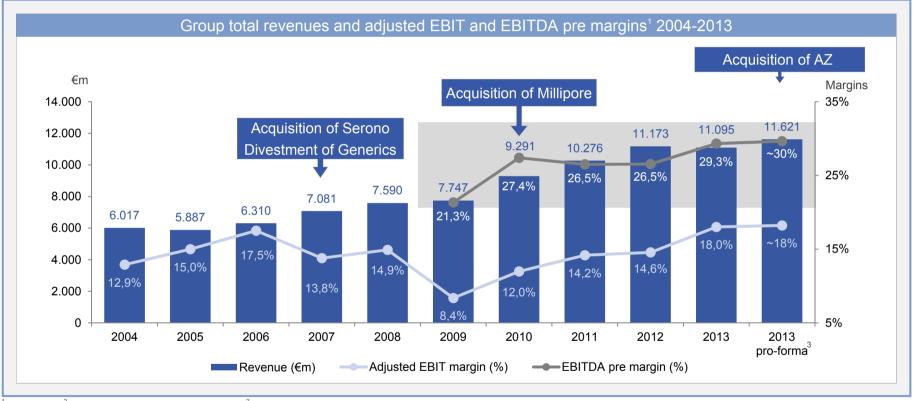
2002 revenues €7 5 bn Transformation volume 2013 revenues €11.6 bn¹ Laboratory Distribution +Life Science Millipore Life Science Products² merged Analytics & Reagents + Performance ΑZ Materials €18 bn €7 bn Pigments merged Consumer Health Liquid Crystals Consumer Health — Biopharmaceuticals Serono Acquisitions Divestments $(\mathbf{+})$ (-)divested acquired

¹Proforma figure including FY 2013 sales of AZ Electronic Materials acquired as of 2 May 2014, ²Excluding "Crop Bioscience", which was divested; ³Excluding "Theramex", which was divested

Merck KGaA



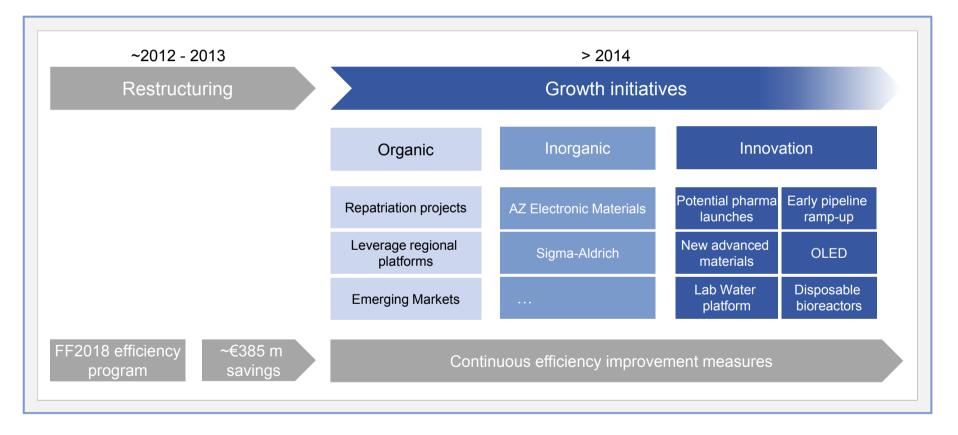
Growth initiatives have fundamentally improved profitability



¹adjusted EBIT²and EBITDA pre divided by total revenues; ²adjusted EBIT is EBIT less exceptional items (e.g. impairments, integration costs, restructuring costs) ³Pro-forma calculation based on published FY 2013 results for Merck KGaA, Darmstadt, Germany (including pro-forma AZ); based on 100% expected synergies; including Corporate & Other

Strategic agenda beyond 2014 – Focus on growth

Merck KGaA





Sigma Aldrich acquisition - a compelling transaction rationale

	 Increasing scale – expanding position in attractive life science industry 		
	Enhancing value for our customers		
Strategic and operational fit	Broadens product range and ease of doing business for Laboratories & Academia		
	Complements Process Solutions product offering		
	Closing the gap in U.S. – adequate presence in all geographies		
	 Leveraging existing platforms for global innovation rollout 		
Financial fit	 Further diversification of revenue stream 		
	 Substantial synergy potential 		
	Immediately accretive to EPS pre* and EBITDA margin		
	 Solid investment grade rating will be maintained 		

*EPS pre one-time items and amortization, especially from purchase price allocation (PPA)

Full-year guidance confirmed



Group guidance	for 2014, including AZ ¹	
Sales:	~ €11.0 – 11.2 bn	
EBITDA pre:	~ €3.3 – 3.4 bn	
EPS pre ² :	~ €4.50 – 4.75	

¹Including AZ Electronic Materials from May to December 2014 ²Based on number of shares after the share split, which has been effective since June 30, 2014



Agenda

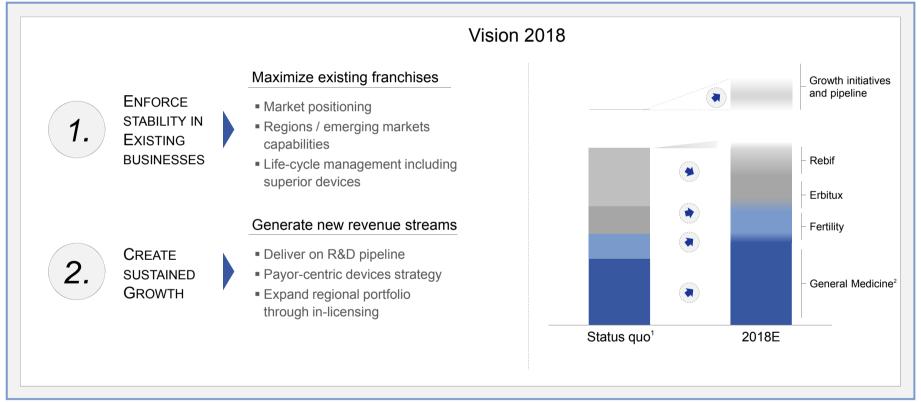
The Group

Strategy update Biopharmaceuticals

New R&D focus

Conclusion

Strategic priorities for sustainable success: New revenue streams and maximizing existing franchises



¹FY 2013; excludes Allergopharma and Biosimilars; ²including Cardiometabolic Care, Endocrinology, General Medicine and Others



The plan to maximize Biopharmaceuticals' core franchises has paid off



Continue to drive front-line mCRC share by increasing patient testing and expanding head and neck coverage



Capitalize on strong efficacy and new smart devices to maximize differentiation and defend franchise



Build on No.1 position and ART¹ channel access with embryo
 diagnostics and other innovative technologies



Harness strengths of existing business and build a new focus area driven by innovative devices and services for patients

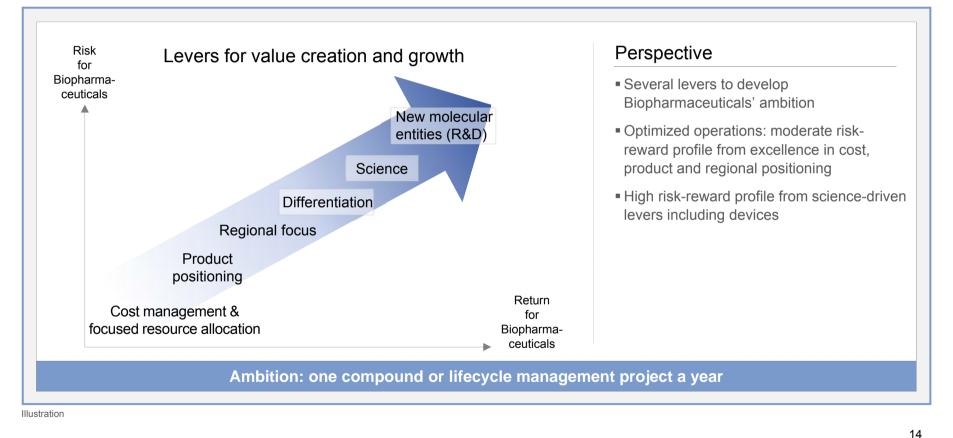
Concor RUVAN (Second an including)

Build on existing track record in Emerging Markets, drive brand and life-cycle management and expand business including asset repatriation



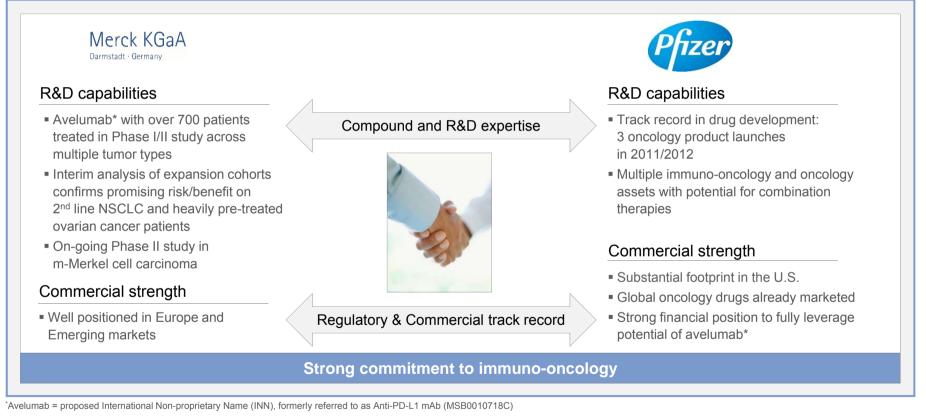
¹ART = Assisted Reproductive Technology

Biopharmaceuticals' goal: Success as a mid-sized specialty pharma player

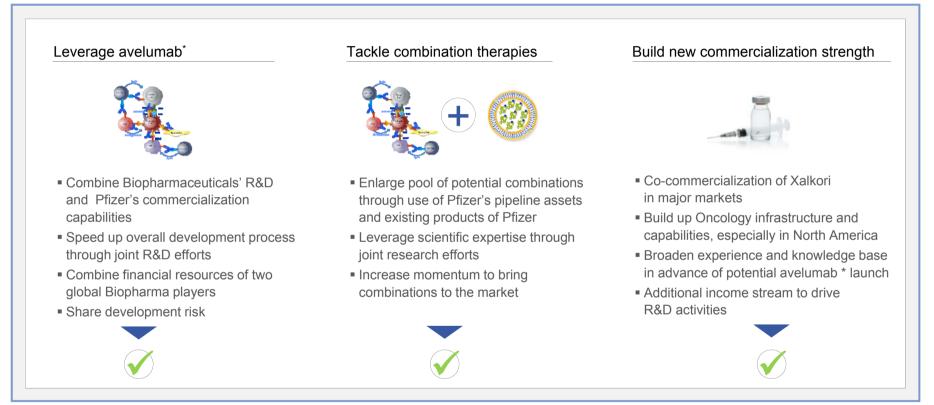




Collaboration with Pfizer – two strong players combining forces in oncology



Three strategic drivers for collaboration



*Avelumab = proposed International Non-proprietary Name (INN), formerly referred to as Anti-PD-L1 mAb (MSB0010718C)

Merck KGaA

Financial implications of the deal with Pfizer



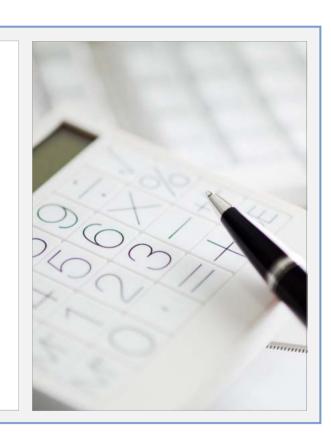
\$850 m upfront cash payment, accrual to be released over several years

~50:50 R&D Cost split for drug development

Milestone payments of up to \$2.0 bn based on filing/approval and commercialization of the compound across various indications & markets

Co-commercialization of Xalkori – 2015 reimbursement for ramping up infrastructure and capabilities; followed by profit sharing agreement

Following regulatory approval, first potential sales of avelumab*



*Avelumab = proposed International Non-proprietary Name (INN), formerly referred to as Anti-PD-L1 mAb (MSB0010718C)



Agenda

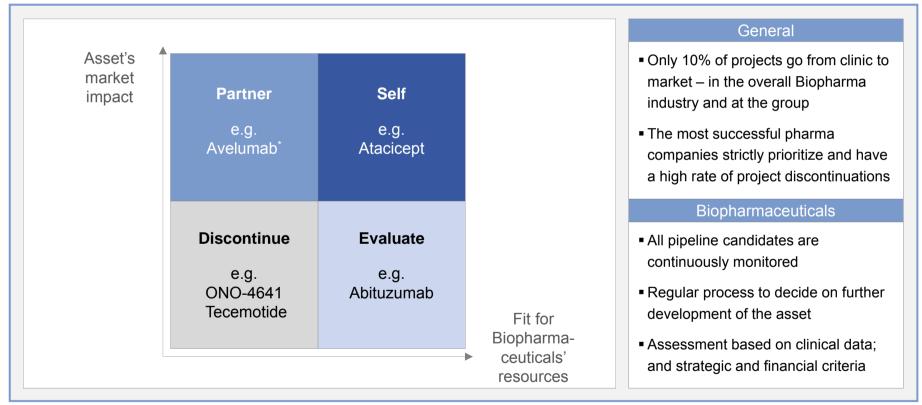
The Group

Strategy update Biopharmaceuticals

New R&D focus

Conclusion

Current view on R&D project prioritization in Phase II and III



*Avelumab = proposed International Non-proprietary Name (INN), formerly referred to as Anti-PD-L1 mAb (MSB0010718C)

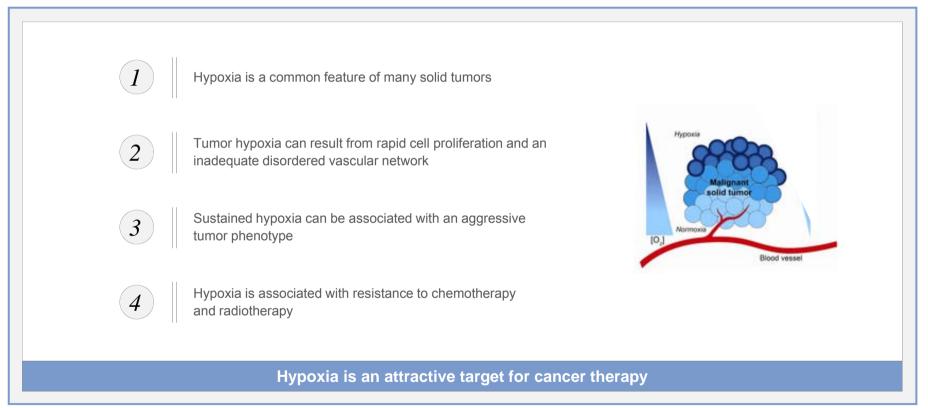
Commitment to scientific innovation makes a meaningful difference

Immunology & Neurology	Oncology	Immuno-Oncology
Vision	Vision	Vision
Understand disease-led human immunology to build a competitive drug portfolio	Leverage our presence in oncology to deliver the best benefit possible to patients	Transform cancer into a chronic disease
Key projects [∗]	Key projects*	Key projects*
Atacicept Atacicept BTK inhibitor	 TH-302 c-Met inhibitor p7056K & Akt inhibitor 	 NHS-IL2LT Avelumab* NHS-IL-12

*Examples

*Avelumab = proposed International Non-proprietary Name (INN), formerly referred to as Anti-PD-L1 mAb (MSB0010718C)

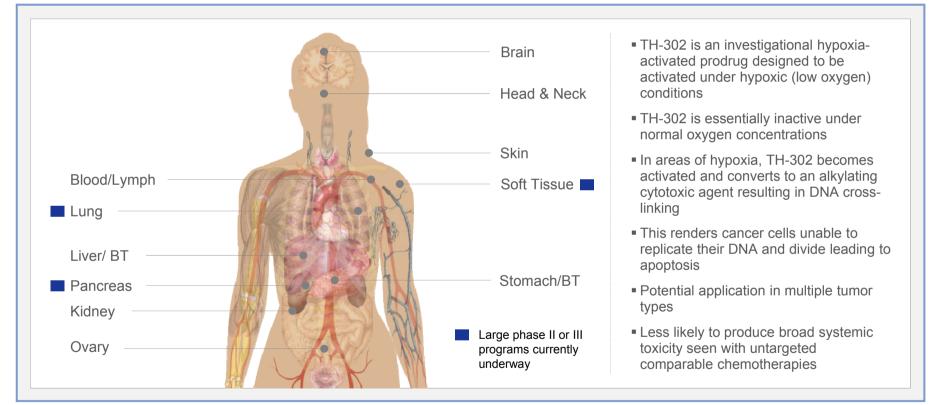
The role of hypoxia in cancer



Source: Vaupel P, Mayer A. Cancer Metastasis Rev 2007; 26:225-239; Vaupel P, Höckel M, Mayer A. Antioxid Redox Signal. 2007 Aug;9(8):1221-35. Duan JX, et al. J Med Chem. 2008 Apr 24;51(8):2412-20

Merck KGaA

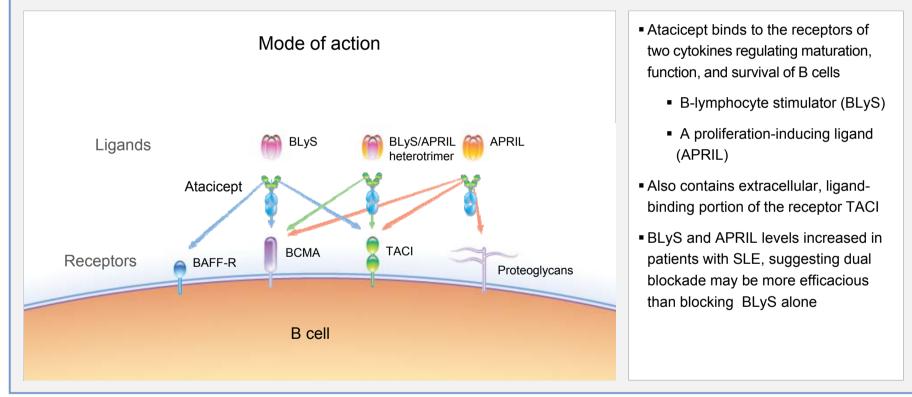
TH-302: Potential broad application in many tumor types



Source: Vaupel P, Höckel M, Mayer A. Antioxid Redox Signal. 2007 Aug;9(8):1221-35. Duan JX, et al. J Med Chem. 2008 Apr 24;51(8):2412-20

Merck KGaA

Atacicept targets both BLyS and APRIL



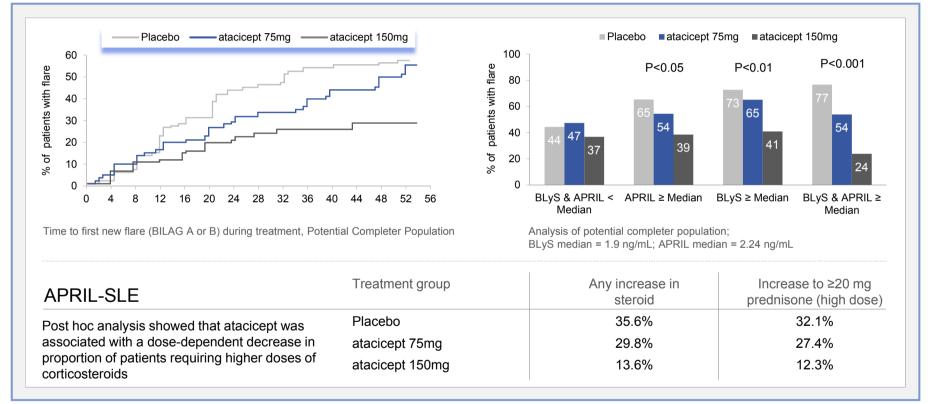
Source: Dillon S, et al. Arthritis Res Ther. 2010. Dillion SR et al, Nature reviews, Drug Discovery, March 2006

23

Merck KGaA



APRIL-SLE efficacy: Significantly longer time to first flare and reduced number of flares in 150 mg group



Source: Isenberg D. et al, Ann Rheum Dis. 2014

Stringent R&D prioritization of oncology-tilted pipeline to yield first potential results 2016+

Focus on bolstering pharma R&D pipeline

- More focused and better prioritized R&D pipeline to yield one compound and lifecycle management initiative every year
- Keep up stringent prioritization process for R&D projects
- Lower R&D pipeline risk via partnering, risk-sharing
- Continuously develop innovation flow with external know-how

Focus on optimal product development

- Prepare launch readiness in mature markets
- Improved pipeline structure to yield first potential results from 2016+

Image: transmission of transmi

*Avelumab = proposed International Non-proprietary Name (INN), formerly referred to as Anti-PD-L1 mAb (MSB0010718C)



Agenda

The Group

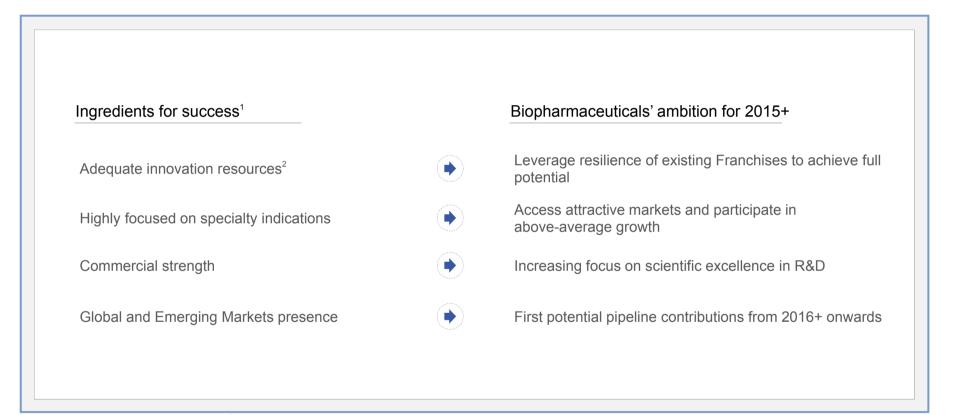
Strategy update Biopharmaceuticals

New R&D focus

Conclusion

Conclusion





¹As measured by sales growth, product launches; ²E.g. mid-sized R&D budget of € 1-1.5 bn

Merck KGaA Darmstadt · Germany

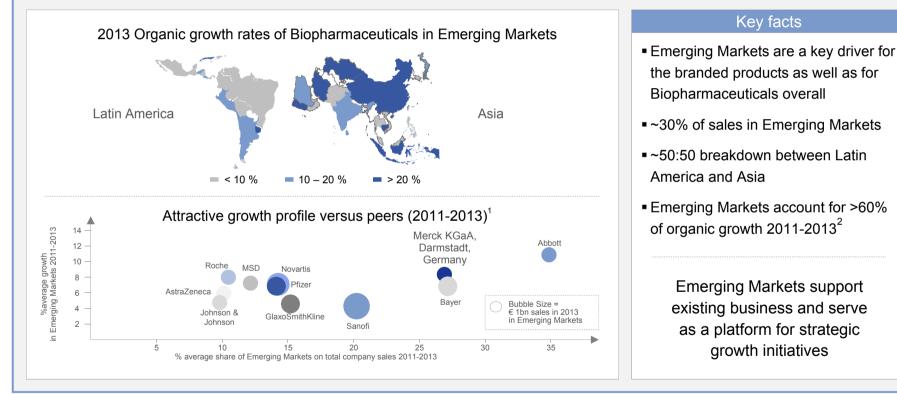


Appendix

Additional divisional information

Financials 9M 2014

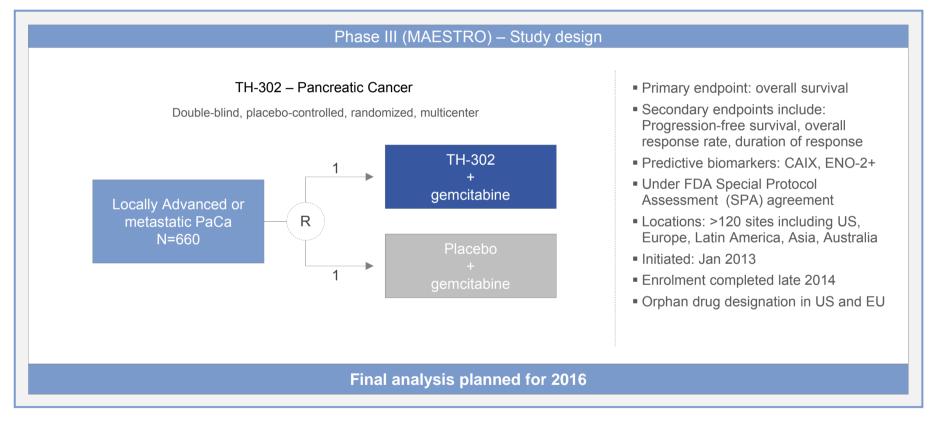
Emerging Markets are a key pillar of growth for Biopharmaceuticals



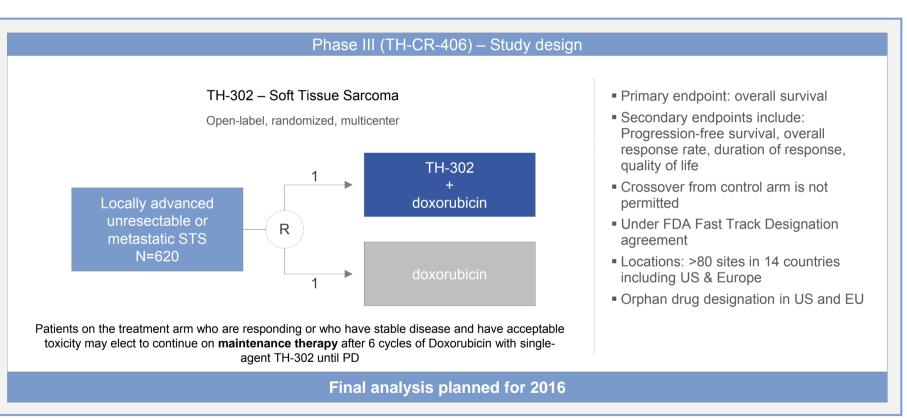
¹Source: IMS MIDAS, 2012/2013 constant USD; ²Source: Biopharmaceuticals Note: Size of bubble = € bn sales in Emerging Markets (2013)



TH-302: Phase III in pancreatic cancer fully enrolled



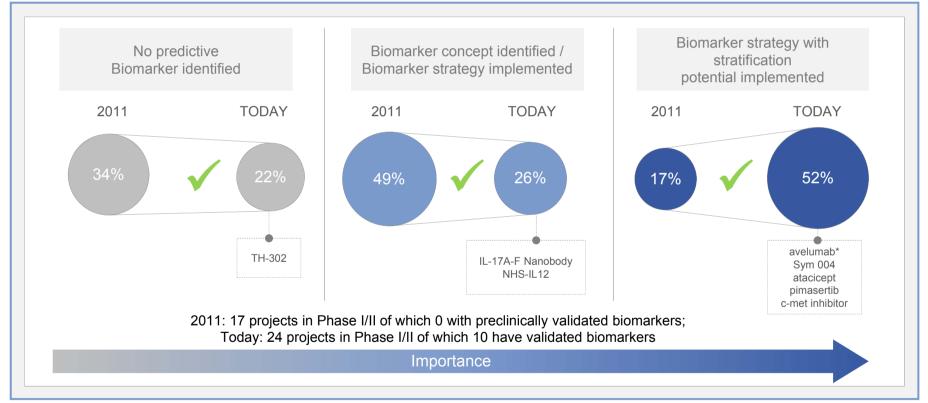
TH-302: Phase III in STS fully enrolled



PD = progressive disease

Merck KGaA

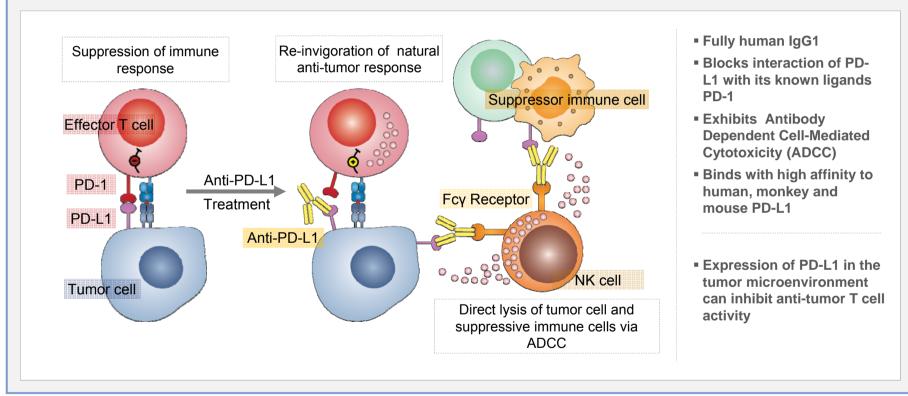
Implementation of biomarker strategy enables treatment of patients, not diseases



*% for all projects in phase I/II/III, selected examples provided

*Avelumab = proposed International Non-proprietary Name (INN), formerly referred to as Anti-PD-L1 mAb (MSB0010718C)

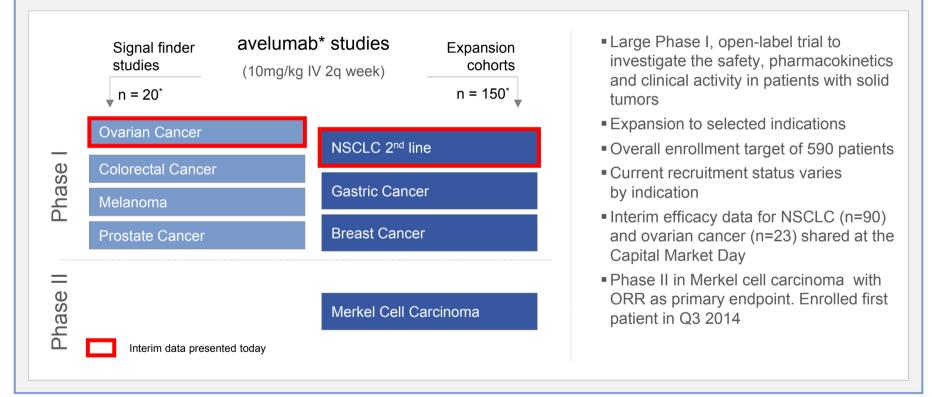
The targeting principle of PD-1/PD-L1 in the tumor microenvironment



PD = programmed death

Current clinical program of avelumab*

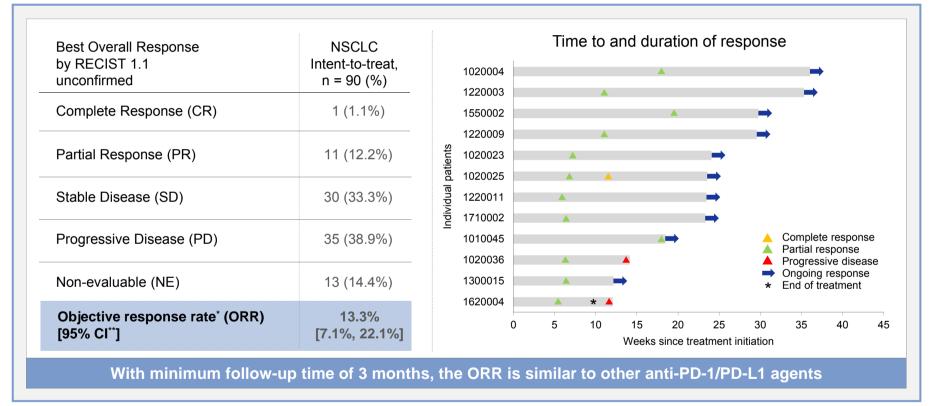




*enrollment target

*Avelumab = proposed International Non-proprietary Name (INN), formerly referred to as Anti-PD-L1 mAb (MSB0010718C)

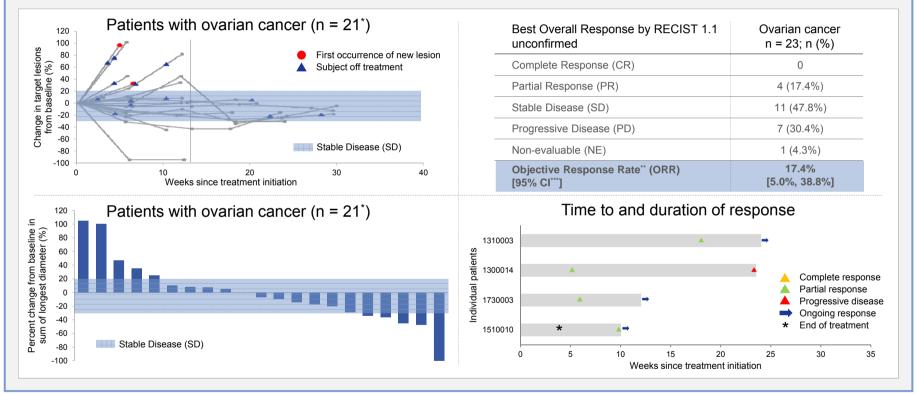
Phase I efficacy result: Response rates in NSCLC



Data presented at Merck KGaA, Darmstadt, Germany Capital Markets Day, September 18, 2014, and based on an interim analysis *Response rate per RECIST v1.1 is based on all treated patients. ORR includes both confirmed and unconfirmed responses (CR and PR); *Confidence interval Merck KGaA

Merck KGaA Darmstadt · Germany

Phase I results in ovarian cancer: Tumor shrinkage and duration of response

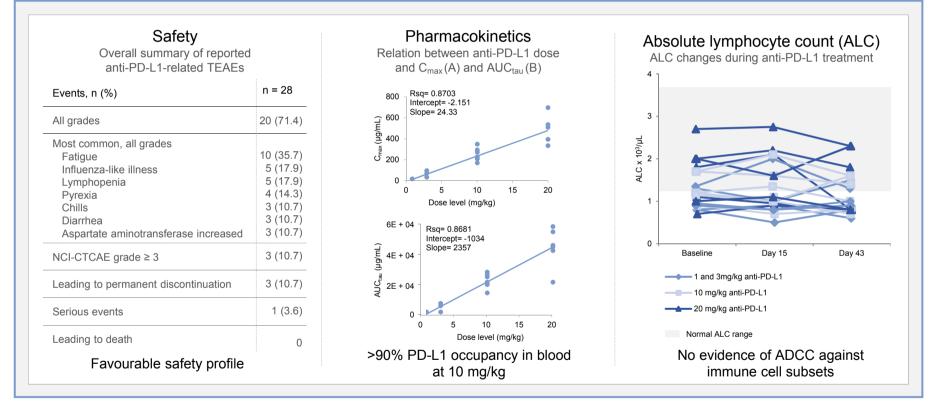


Data presented at Merck KGaA, Darmstadt, Germany Capital Markets Day, September 18, 2014, and based on an interim analysis

"Based on evaluable patients; "Response rate per RECIST v1.1 is based on all treated patients. ORR includes both confirmed and unconfirmed responses (CR and PR); "Confidence interval

Merck KGaA Darmstadt - Germany

Avelumab*: Phase I dose escalation results presented at ASCO 2014



ADCC = Antibody-dependent cell-mediated cytotoxicity; ALC = absolute lymphocyte count; n= number of patients; NCI-CTCAE = National Cancer Institute Common Terminology Criteria for Adverse Events (v 4.0); TEAE= treatment-emergent adverse event; C_{max} = maximum concentration; AUC_{tau} = area under the concentration-time curve for the dosing period; Rsq= square of the Pearson correlation coefficient *Avelumab = proposed International Non-proprietary Name (INN), formerly referred to as Anti-PD-L1 mAb (MSB0010718C)

Phase I safety results: Adverse Events

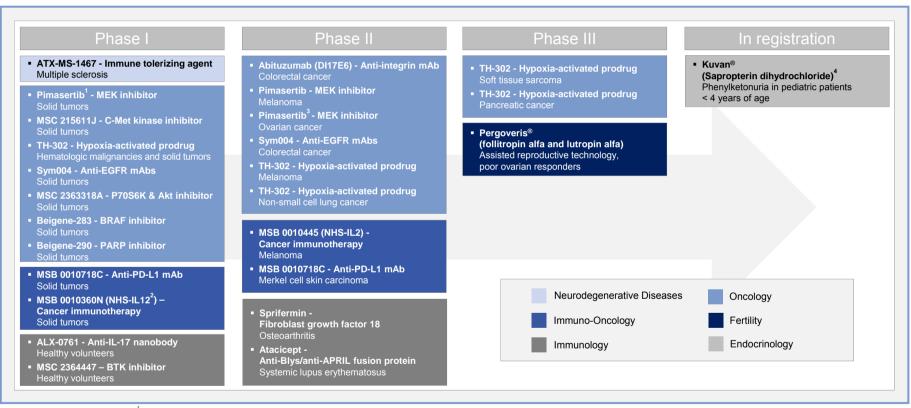
	Pooled expansion cohorts (n = 290) n (%)	NSCLC (n = 127) n (%)	Ovarian cancer (n = 23) n (%)	 Current safety information based on an analysis of 290 subjects (expansion part of study -001) Cut-off date: Jul 16, 2014
AEs	262 (90.3)	114 (89.8)	23 (100.0)	 Minimum follow-up time: 4 weeks
Related AEs	198 (68.3)	87 (68.5)	18 (78.3)	
AEs, Grade ≥3	124 (42.8)	55 (43.3)	9 (39.1)	
Related AEs, Grade ≥3	38 (13.1)	17 (13.4)	2 (8.7)	

Data presented at Merck KGaA, Darmstadt, Germany Capital Markets Day, September 18, 2014, and is based on an interim analysis

Merck KGaA

Biopharmaceuticals pipeline

Merck KGaA

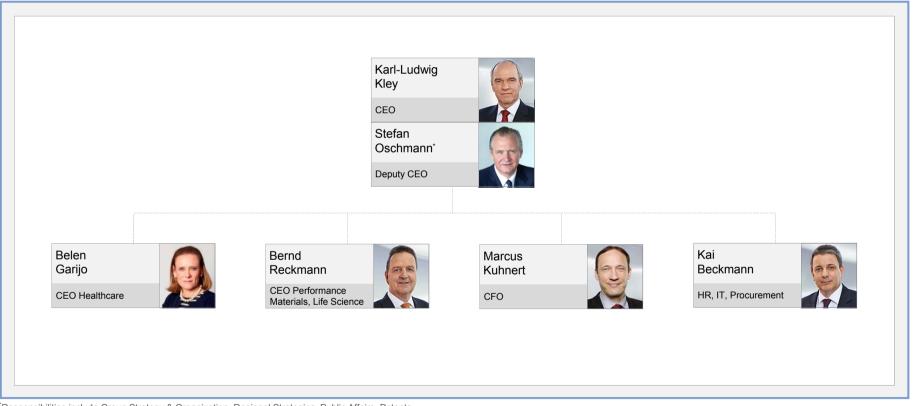


Pipeline as of Oktober 31, 2014; ¹Combined with hDM2 inhibitor (SAR405838) from Sanofi, conducted under the responsibility of Sanofi;

²Sponsored by the National Cancer Institute (USA); ³Combined with PI3K/mTOR inhibitor (SAR245409) from Sanofi, conducted under the responsibility of Merck KGaA, Darmstadt, Germany; ⁴Post-approval request by the European Medicines Agency



Executive Board as of January 1, 2015



^{*}Responsibilities include Group Strategy & Organization, Regional Strategies, Public Affairs, Patents



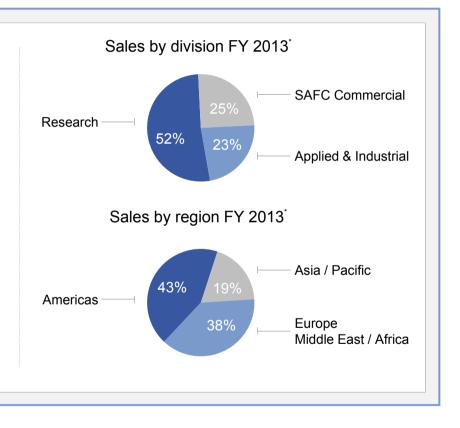
Sigma-Aldrich – A leading life science consumables supplier

Business

- Total revenues of \$2.7 billion in 2013
- ~9,000 employees including ~3,000 scientists and engineers
- Headquartered in St. Louis, MO
- Chemical and biochemical products, kits and services provider to laboratories and pharma production
- No. 1 eCommerce platform in the industry; ~1,600 sales people

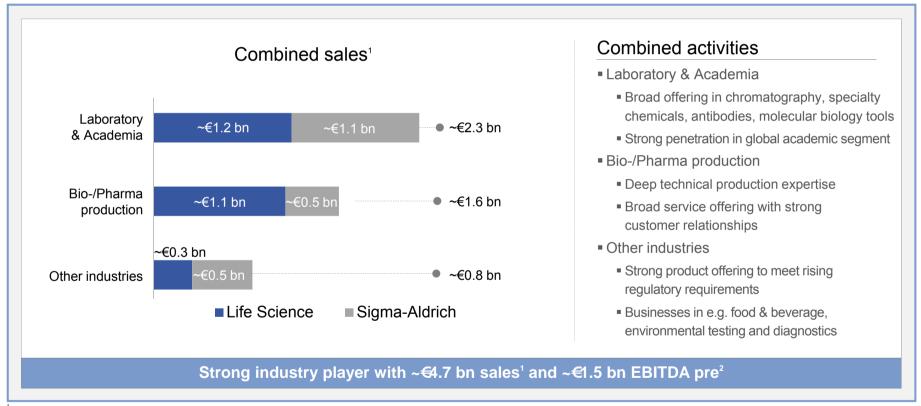
Footprint

- Balanced regional exposure; strength in North America
- Operations in ~40 countries; products available in ~160 countries



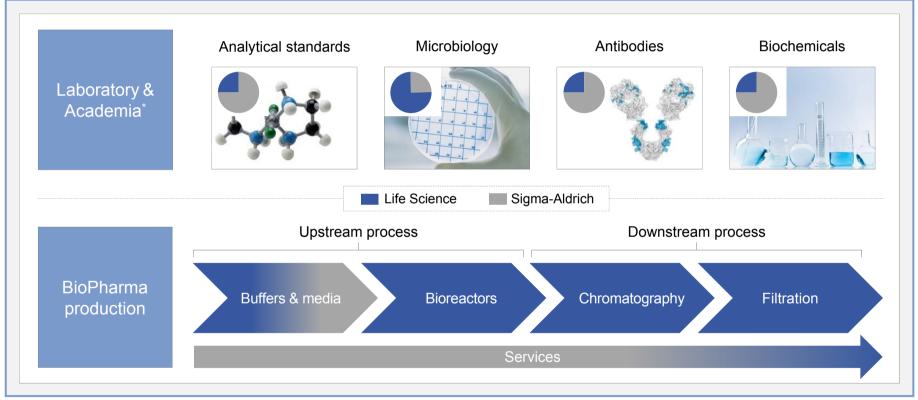
*Company reports FY 2013

Turning into a leading life science industry player



¹Pro-forma calculation based on published sales for FY 2013 for Life Science and Sigma-Aldrich (FX conversion: EUR/USD 1.30); ²Pro-forma calculation based on 100% expected synergies and published figures for FY 2013 for Life Science and Sigma-Aldrich (FX conversion: EUR/USD 1.30) Merck KGaA

Broad and complementary product fit in attractive segments

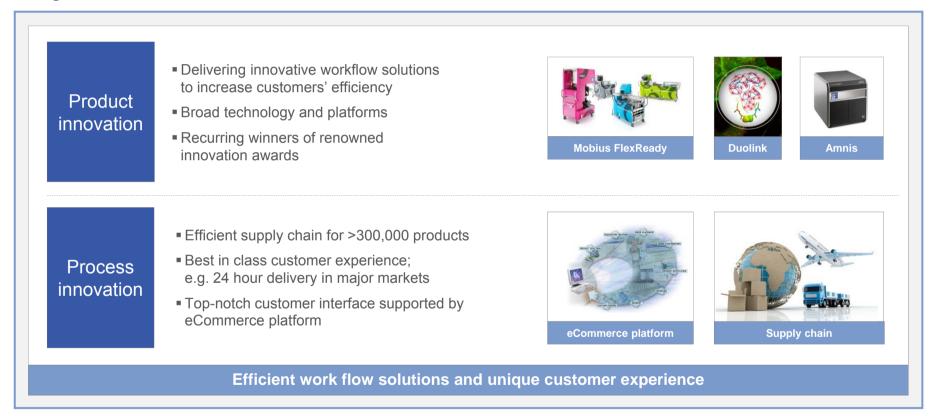


*Key laboratory and academia areas illustrated

Merck KGaA

Merck KGaA Darmstadt - Germany

Leveraging operational excellence to deliver superior value to customers



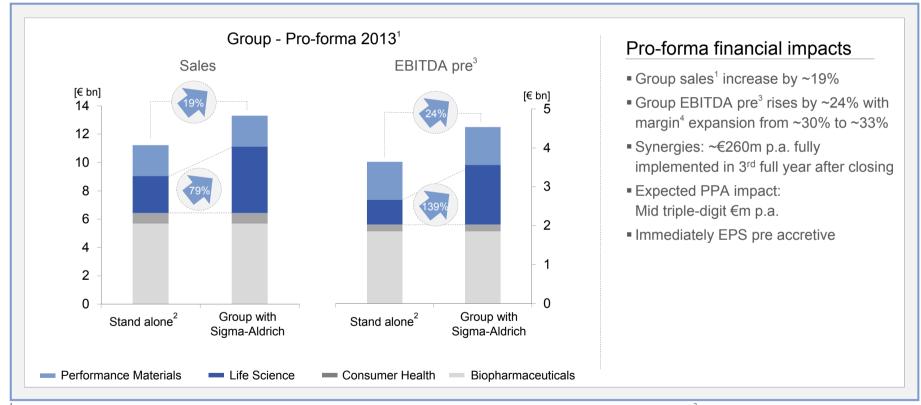
Sigma-Aldrich – Business and transaction financials

Overview of	financial d	ata1		Proposed transactio	n details ²	
US\$ m	2012	2013	2014E⁴	 Equity value ~US\$17 bn (€13.1 bn) Enterprise value (EV) ~€12.7 bn including net cash ~€3 		
Revenue	2,623	2,704	2,796	 Financing through cash and debt; no equity 		
% YoY at constant FX	+3%	+3%	n.a.	 Assumed synergies: ~€260m In line with core acquisition criteria Immediately accretive to EPS pre 		
EBITDA (adjusted)	809	821	852			
% of sales	31%	30%	30%	 Solid investment grade rating will be maintained 		tained
D&A	136	138	132	Implied forward transact	ion multiples	3
% of sales	5%	5%	5%		2013	2014E ⁴
Net financial debt (period end)	-41	-357	-466 ⁵	EV/Sales	6.1x	5.9x
No. of shares (diluted, m)	122	121	n.a.	EV/EBITDA EV/EBITDA pro-forma incl. synergies ³	20.1x 14.3x	19.4x 13.9x

¹Source: Company reports; ²FX conversion: EUR/USD 1.30; ³"Pro-forma" calculation based on 100% expected synergies; ⁴Median consensus estimates from latest broker reports; ⁵Last reported as per H1 2014 report (June 30, 2014)

Merck KGaA

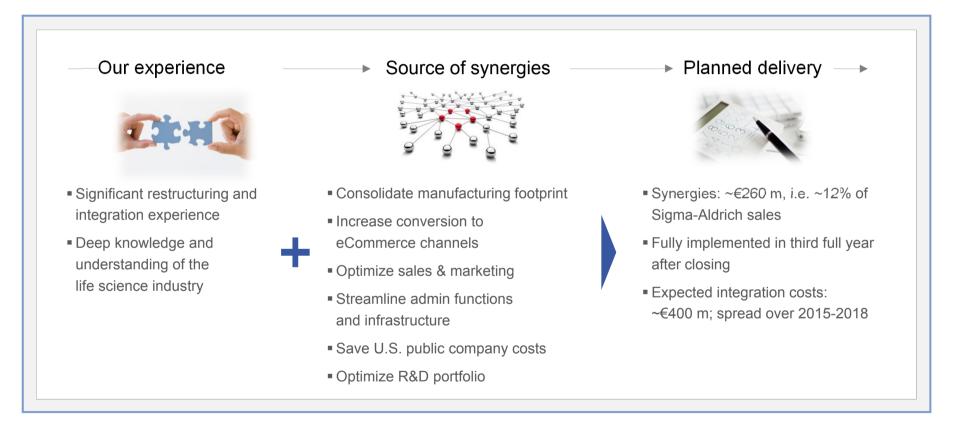
Transaction enhances our financial profile



¹Pro-forma calculation based on published sales for FY 2013 for Merck KGaA, Darmstadt, Germany (including pro-forma AZ Electronic Materials) and Sigma-Aldrich; ²Pro-forma calculation based on published sales for FY 2013 for Merck KGaA, Darmstadt, Germany (including pro-forma Calculation based on 100% expected synergies; excluding Corporate & Other; ⁴Including Corporate & Other;

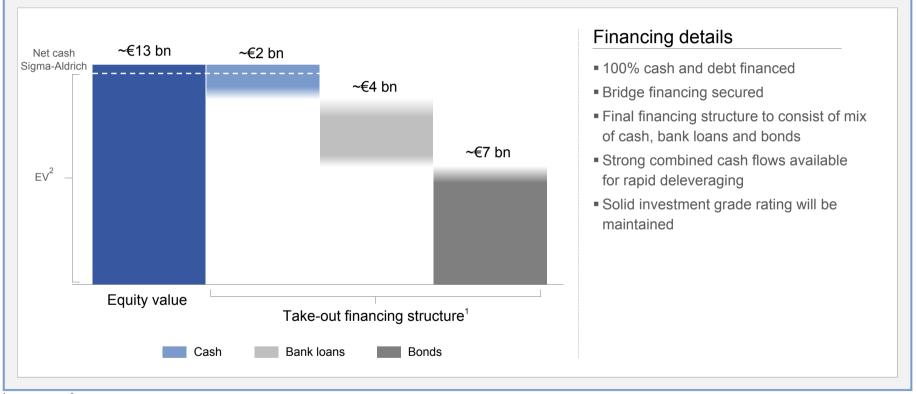
Merck KGaA

Support from meaningful synergies



Merck KGaA

Sigma-Aldrich acquisition – Financing secured



¹Indicative only; ²Enterprise value

Merck KGaA

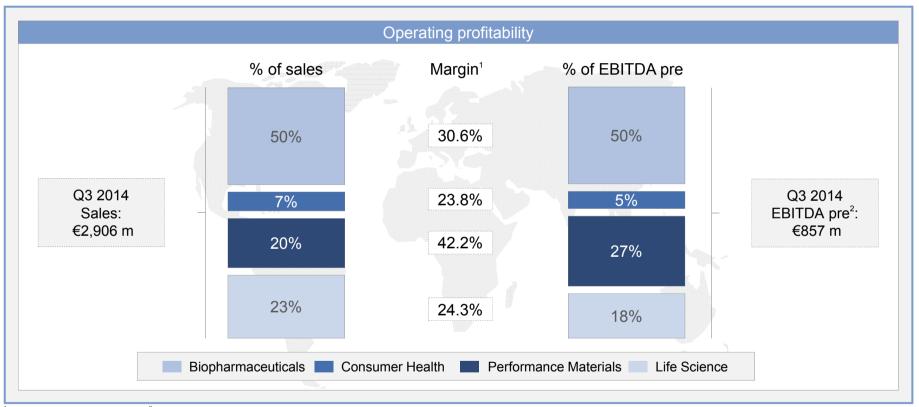


Appendix

Additional divisional information

Financials 9M 2014

Strong businesses with attractive margins

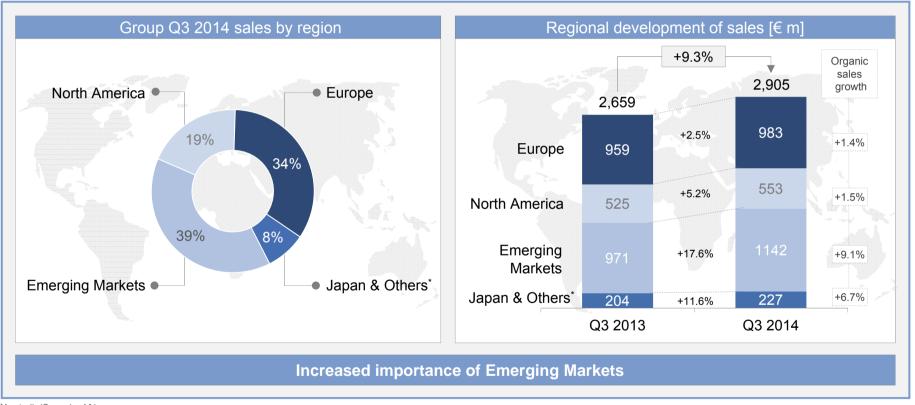


¹EBITDA pre margin in % of sales; ²Including Corporate/Others (-€44.1 m) Totals may not add up due to rounding

Merck KGaA

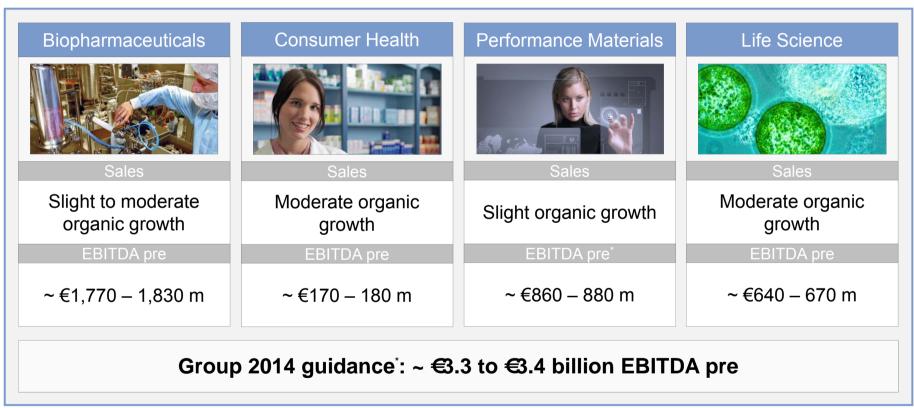


Growth across all regions



*Australia/Oceania, Africa Totals may not add up due to rounding

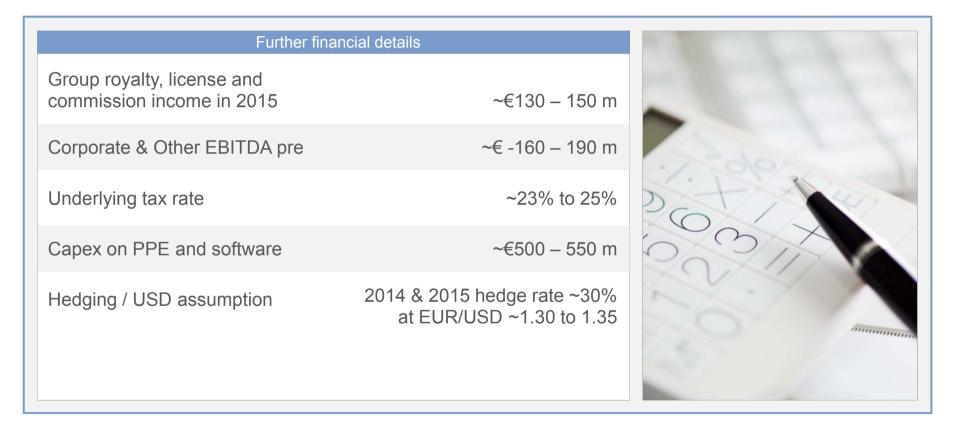
Guidance details



^{*}Including AZ Electronic Materials from May to December 2014

Merck KGaA

Additional financial guidance



Merck KGaA

Merck KGaA

All divisions post organic growth, currency headwinds soften

9M YoY sales	Orga	anic (Currency	Portfolio	o Total	 Portfolio reflects the acquisition of
Biopharmaceuticals	3.9	9%	-3.5%	0.0%	0.4%	
Consumer Health	5.0)%	-3.7%	0.0%	1.3%	 Currency headwinds mainly driven by the U.S. dollar in H1
Performance Materials	3.3	3%	-3.7%	18.3%	17.99	
Life Science	4.1	%	-3.3%	-0.6%	0.1%	ó
The Group	3.9)%	-3.5%	2.7%	3.1%	6
9M ⁻	YoY EBITE	DA pre co	ntributors	[€ m]		Performance Materials includes AZ
2,458 -41	-2	+43	+21	+31	2,509	 Life Science contributes with solid organic performance
						 Biopharmaceuticals affected by loss of royalty income (Avonex, Enbrel, Humira)
EBITDA pre Biopharma- 9M 2013 ceuticals	Consumer Health	Performance Materials	Life Science	Corporate & Other	EBITDA pre 9M 2014	 Corporate & Other includes higher hedging gains versus last year

Totals may not add up due to rounding

Merck KGaA

9M 2014: Stable financials amid royalty income reduction and currency headwinds

€ m]	9M 2013	9M 2014	Δ	9M 2014
Sales	8,064	8,315	3.1%	 Sales increase as organic growth a portfolio offset negative FX effects
EBITDA pre Margin (% of sales)	2,458 30.5%	2,509 30.2%	2.1%	 EBITDA pre and EPS pre improve solid organic performance and AZ despite loss of royalty income Operating cash flow burdened by lower royalties and higher tax paym Jump in working capital reflects consolidation of AZ Increase in headcount includes employees from AZ
EPS pre [€]	3.33	3.46	3.9%	
Operating cash flow	1,785	1,564	-12.4%	
[€ m]	Dec 31, 2013	Sept. 30, 2014	Δ	
Net financial debt	307	1,521	>100%	
Working capital	2,132	2,554	19.8%	
Employees	38,154	39,355	3.1%	
Net financial o	debt increases on AZ	acquisition		



Reported figures impacted by lower royalties and acquisition effects

[€ m]	9M 2013	9M 2014	Δ	Reported results
EBIT	1,347	1,338	-0.6%	 EBIT flat as organic growth and leaner cost structure are offset by
Financial result	-159	-142	-10.6%	 Iower royalties, one-time items & FX Financial result improves on lower interest payments due to bond
Profit before tax	1,188	1,196	0.7%	 Tax rate impacted by Q3 solely
Income tax	-260	-313	20.5%	 Tax rate impacted by Q3 solery tax-relevant gain from sale of Sigma financing derivatives Reduction in net income and EPS driven by higher income tax
Tax rate (%)	21.9%	26.2%		
Net income	922	877	-4.8%	
EPS (€)	2.12	2.02	-4.7%	

^{*}Contractual Trust Arrangement

Merck KGaA

Biopharmaceuticals: Solid performance supported by all franchises amid royalty income reduction

[€ m]	9M 2013*	9M 2014	Comments
Sales	4,269	4,286	 Organic growth partially offset by adverse currency effects
Marketing and selling	-1,365	-1,322	 Rebif organically stable, as U.S. pricing and Q1 wholesaler
Admin	-149	-164	 restocking overcompensate volume declines due to orals Solid Erbitux performance driven by growth in Emerging Markets
R&D	-913	-1,020	and support from Japan, while Europe is flat
EBIT	677	712	 Strong organic growth of fertility business as a result of good
EBITDA	1,332	1,308	 demand for entire portfolio especially from China Marketing and selling benefits from efficiency initiatives
EBITDA pre	1,380	1,339	 R&D reflects pipeline prioritization initiatives
Margin (% of sales)	32.3%	31.2%	 Lower profitability owing to royalty decline and FX
Sa	es bridge		9M 2014 share of group sales
€4,269 m 3.9%	- <u>3.5%</u> 0.0% €4	I,286 m	51% Biopharma- ceuticals
9M 2013 Organic C	urrency Portfolio 9	M 2014	

*Restated for product reclassification of Neurobion and Floratil from Biopharmaceuticals to Consumer Health

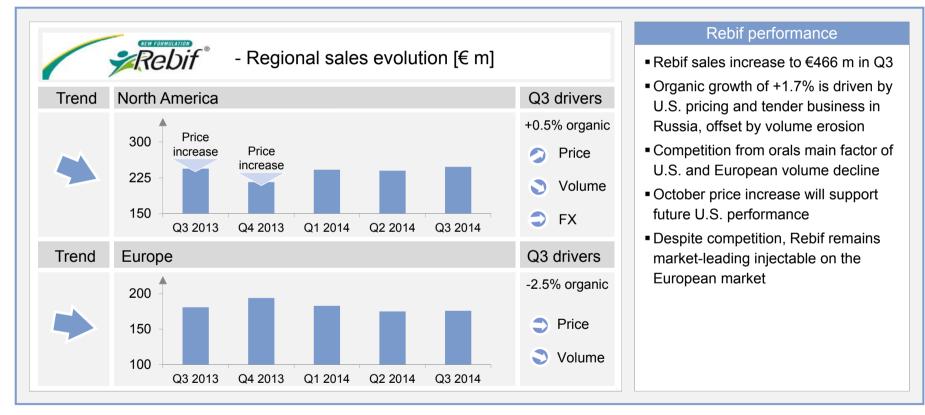
Biopharmaceuticals organic growth by product

Q3 2014 organic sales growth [%] by key product [€ m] 9M 2014 organic sales growth [%] by key product [€ m] Rebif Rebif 1.389 466 460 1.413 232 670 +6% 223 659 147 461 GONAL-0 GONAL-+7% +9% 137 438 117 326 Concor Concor +18% 296 100 104 276 Glucophage Glucophage +6% 302 98 60 174 saizen saizen 175 61 Q3 2013 Q3 2014 ■9M 2014 9M 2013

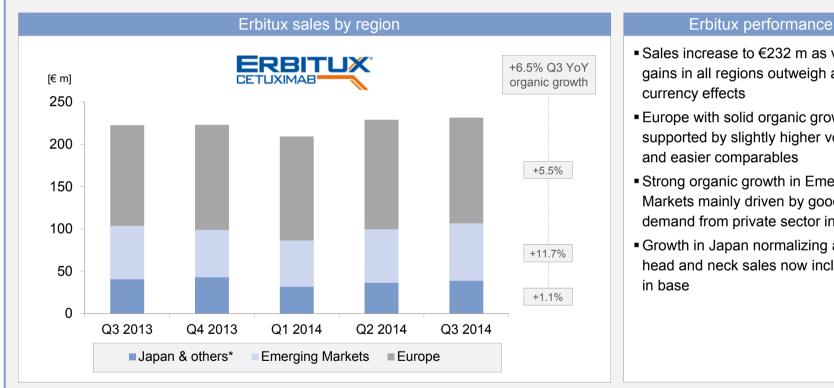
Merck KGaA

Merck KGaA Darmstadt - Germany

Rebif – defending market leadership in Europe; competitive pressure in the U.S.



Erbitux – strong in Emerging Markets



- Sales increase to €232 m as volume gains in all regions outweigh adverse
- Europe with solid organic growth supported by slightly higher volumes
- Strong organic growth in Emerging Markets mainly driven by good demand from private sector in Brazil
- Growth in Japan normalizing as head and neck sales now included

*Australia/Oceania. Africa

Merck KGaA

Strong growth in Fertility and General Medicine

Sales evolution Q3 drivers Q3 drivers Fertility Gonal-f sales increase to €147 m with 7.5% organic growth driven by [€ m] 210 all regions Organic 180 Endocrinology with slight organic 150 Q3 2013 Q4 2013 Q1 2014 Q2 2014 Q3 2014 Concor and Thyroid products see Q3 drivers Endocrinology [€ m] 110 3 Organic 95 80 Q3 2013 Q4 2013 Q1 2014 Q2 2014 Q3 2014 General Medicine¹ Q3 drivers [€ m] 450 Organic 400 350 Q3 2013 Q4 2013 Q1 2014 Q2 2014 Q3 2014

- decrease amid a high base last year
- ongoing good demand from EM² drive organic growth of General Medicine¹
- Glucophage growing organically due to healthy demand from EM², partially offset by supply chain issues in Europe

¹includes "Cardiometabolic Care & General Medicine and Others"; ²Emerging Markets

Merck KGaA



Consumer Health: Focus on strategic brands in Emerging Markets drives performance

[€ m]	9M 2013*	9M 2014	Comments		
Sales	562	569	 Slight increase in sales as good organic growth driven by 		
Marketing and selling	-215	-217	Emerging Markets is almost offset by FX headwinds		
Admin	-18	-20	 New strategic brands Neurobion and Floratil drive organic growth mainly from EM supported by consumer oriented marketing 		
R&D	-17	-15	 Europe solid, as demand for Femibion and some local brand 		
EBIT	126	116	partially offset by soft demand for cough and cold products		
EBITDA	133	123	 Marketing and selling slightly increasing, while shift in promotional spending towards strategic brands continues 		
EBITDA pre	133	131	 Slight decrease in profitability due to investments in marketing and 		
Margin (% of sales)	23.7%	23.1%	selling as well as higher cost of sales		
Sal	es bridge		9M 2014 share of group sales		
€562 m 5.0% -	3.7% 0.0%	€569 m	Consumer		
			Health		
9M 2013 Organic C	urrency Portfolio	9M 2014			

^{*}Restated for product reclassification of Neurobion and Floratil from Pharma to Consumer Health

Merck KGaA

Performance Materials: Solid performance amid high comparables and currency headwinds

[€ m]	9M 2013	9M 2014	Comments		
Sales	1,259	1,484	 Sales increase as moderate organic growth and portfolio char 		
Marketing and selling	-117	-129	overcompensate for negative FX effects		
Admin	-22	-41	 Liquid Crystals with moderate organic growth; last year supported by subsidy program for consumers in China until May 2013 		
R&D	-107	-120	Liquid Crystals flagship technologies see ongoing good demand		
EBIT	519	441	 Pigments benefits from coating industry demand for Xirallic products 		
EBITDA	611	574	Cost base reflects portfolio effects from AZ		
EBITDA pre	613	656	 EBITDA pre increase contains organic growth and contribution from AZ; margin reflects inclusion of AZ 		
Margin (% of sales)	48.7%	44.2%			
ç	Sales bridge		9M 2014 share of group sales		
€1,259 m 3.3%	-3.7% 18.3%	€1,484 m	Performance		
			18% Materials		
9M 2013 Organic	Currency Portfolio	9M 2014			

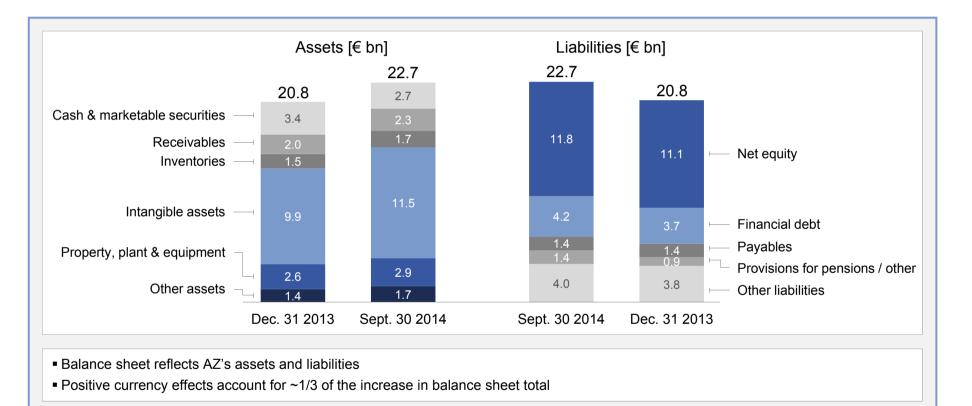
Merck KGaA

Life Science: Growth in Process Solutions improves profitability

[€ m]	9M 2013	9M 2014	Comments
Sales	1,974	1,976	Sales stable as organic growth is offset by FX mainly driven by
Marketing and selling	-629	-613	U.S. dollar and Japanese yen as well as DDS [*] divesture
Admin	-75	-81	 Process Solutions growth driven by biopharma demand for filtration and single-use products mainly stemming from EM and Europe
R&D	-121	-119	 Bioscience organically flat, as solid demand for cell culture and
EBIT	211	234	analysis systems mitigates soft U.S. academia demand
EBITDA	444	464	 Demand for consumables and water purification solutions in Emerging Markets drives organic growth in Lab Solutions
EBITDA pre	475	496	Profitability increases due to solid volumes and pricing as well as
Margin (% of sales)	24.1%	25.1%	ongoing cost discipline in marketing and selling
S	ales bridge		9M 2014 share of group sales
€1,974 m 4.1%	-3.3% -0.6%	€1,976 m	Life
			24% Science
9M 2013 Organic	Currency Portfolio	9M 2014	

Discovery and Development Solutions

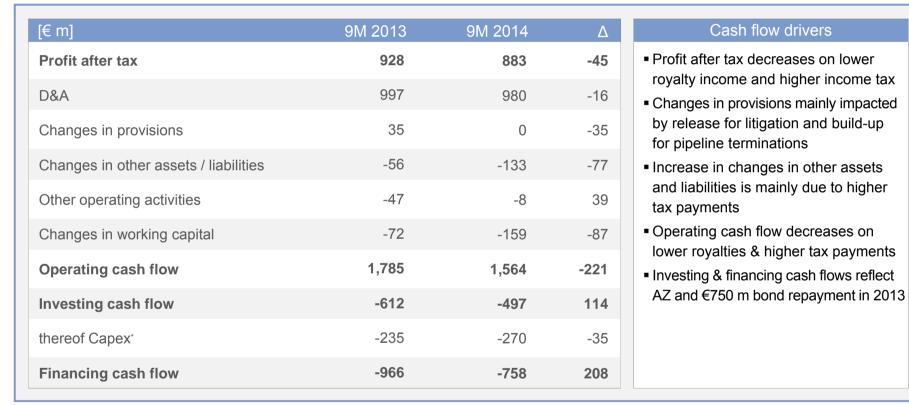
Balance sheet: Financial strength



Totals may not add up due to rounding

Merck KGaA

Underlying cash flow strength



*Only PPE, not including software Totals may not add up due to rounding



One-time items in 9M 2014

One-time items in EBIT [€ m] 9M 2013 9M 2014 One-time items thereof D&A One-time items thereof D&A Biopharmaceuticals 93 45 34 4 **Consumer Health** 0 0 8 0 3 81 **Performance Materials** 1 0 Life Science 31 0 32 0 Corporate & Other 42 34 0 4 Total 161 8 46 198

Totals may not add up due to rounding

Merck KGaA



Financial calendar

Date	Event	16
March 03, 2015	Q4 2014 Earnings release	
April 17, 2015	Annual General Meeting 2015	24 17
May 19, 2015	Q1 2015 Earnings release	
August 06, 2015	Q2 2015 Earnings release	SO SS CONTRACTOR
November 12, 2015	Q3 2015 Earnings release	The second secon

Investor Relations contact details



Merck KGaA