

Merck KGaA, Darmstadt, Germany – Sound business performance supported by inorganic growth

Roadshow Presentation

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Merck KGaA

Darmstadt · Germany

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Risks and uncertainties relating to the proposed transaction with Sigma-Aldrich Corporation ("Sigma-Aldrich") include, but are not limited to: the risk Sigma-Aldrich's shareholders do not approve the transaction; uncertainties as to the timing of the transaction; 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 business combination of Merck KGaA, Darmstadt, Germany, and Sigma-Aldrich, including the combined company's future financial condition, operating results, strategy and plans; the implications of 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 risk of greater competitive pressure due to biosimilars; the risks of research and development; the risks of discontinuing development projects and regulatory approval of development; the risk of a temporary ban on products; the risk 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 crime and espionage; risks in relation to the use of financial instruments; liquidity risks; counterparty risks; market risks; risks of impairment on balance sheet items; risks from 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; downward pressure on the common stock price of Merck KGaA, Darmstadt, Germany, or Sigma-Aldrich and its impact on goodwill impairment evaluations; the impact of future regulatory regulatory regulatory is potential downgrade in the 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-K and 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.

Important Additional Information

This communication is being made in respect of the proposed merger transaction involving Sigma-Aldrich and Merck KGaA, Darmstadt, Germany. The proposed merger will be submitted to the stockholders of Sigma-Aldrich intends to file relevant materials with the SEC, including a preliminary proxy statement and a definitive proxy statement. The definitive proxy statement will be mailed to the stockholders of Sigma-Aldrich. BEFORE MAKING ANY VOTING OR ANY INVESTMENT DECISION, INVESTORS AND SECURITY HOLDERS ARE URGED TO READ THE DEFINITIVE PROXY STATEMENT BEFORE TRANSACTION AND ANY OTHER RELEVANT DOCUMENTS FILED OR TO BE FILED WITH THE SEC CAREFULLY AND IN THEIR ENTIRETY WHEN THEY BECOME AVAILABLE BECAUSE THEY WILL CONTAIN IMPORTANT INFORMATION ABOUT THE PROPOSED TRANSACTION. Investors and security holders may obtain free copies of the proxy statement, any amendments or supplements thereto and other documents containing important information about Sigma-Aldrich, once such documents are filed with the SEC, through the website maintained by the SEC at www.sec.gov. Copies of the documents filed with the SEC by Sigma-Aldrich will be available free of charge on Sigma-Aldrich's website at www.sigmaaldrich.com under the heading "SEC Documents" within the "Investors" portion of Sigma-Aldrich's website. Shareholders of Sigma-Aldrich may also obtain a free copy of the definitive proxy statement by contacting Sigma-Aldrich's Investor Relations Department at +1 (314) 898 4643.

Sigma-Aldrich and certain of its directors, executive officers and other members of management and employees may be deemed to be participants in the solicitation of proxies in connection with the proposed transaction. Information about the directors and executive officers of Sigma-Aldrich is set forth in its proxy statement for its 2014 annual meeting of stockholders, which was filed with the SEC on March 21, 2014, its annual report on Form 10-K for the fiscal year ended December 31, 2013, which was filed with the SEC on February 6, 2014, and in subsequent documents filed with the SEC, each of which can be obtained free of charge from the sources indicated above. Other information regarding the participants in the proxy solicitation of the stockholders of Sigma-Aldrich and a description of their direct and indirect interests, by security holdings or otherwise, will be contained in the preliminary and definitive proxy statements and other relevant materials to be filed with the SEC when they become available.



Agenda

Business overview

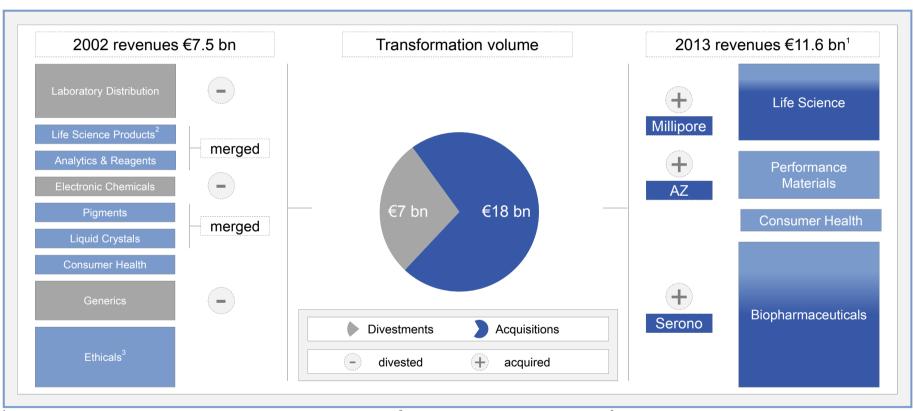
Next strategic step: quantum leap in Life Sciences

Update on Biopharmaceuticals

Financial review & guidance

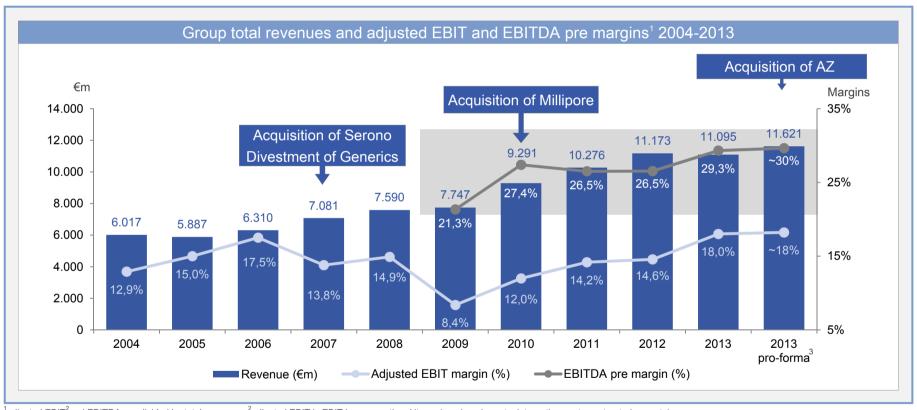


We have added scale while strengthening the attractiveness of our portfolio



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

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

A balanced portfolio of four divisions



Merck KGaA, Darmstadt, Germany

Biopharmaceuticals



Leading in certain specialty pharma markets

- Life cycle management
- Biologics
- Emerging markets

Consumer Health



Present in OTC niche markets

- Vitamins
- Supplements
- Strong presence in Latin America and Europe

Performance Materials



No. 1 in display materials

- Customer intimacy
- Innovation power
- Cost and technology leadership

Life Science

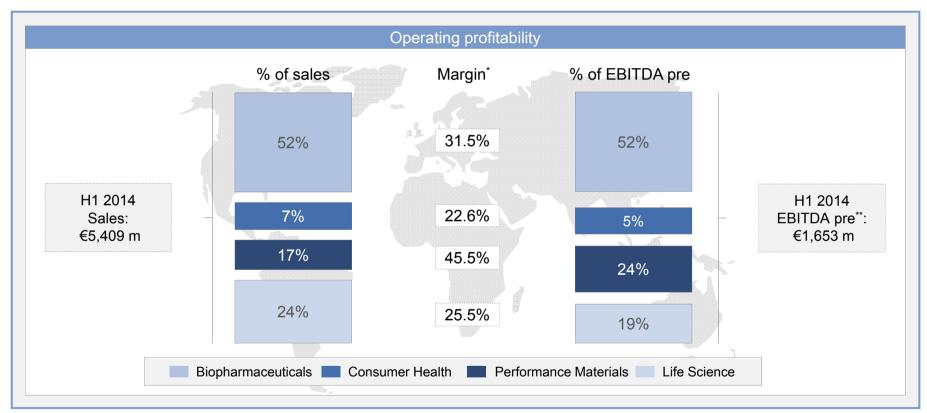


Top 3 in life science tools

- Global presence
- Innovation
- End-to-end solutions for pharma industry

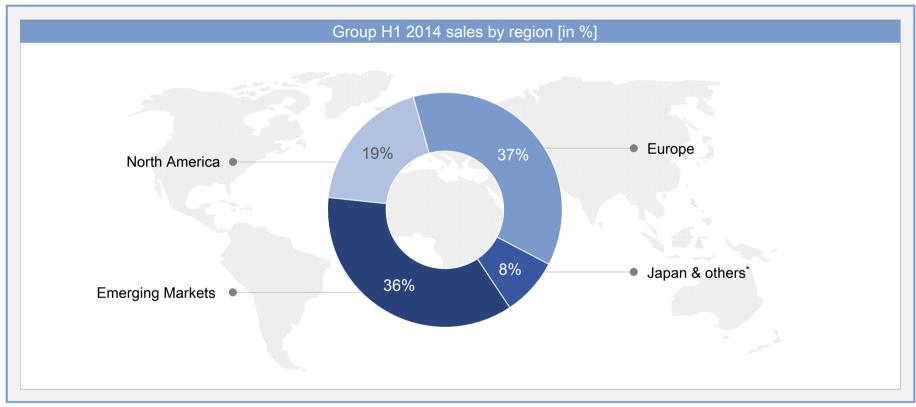
Strong businesses with attractive margins





*EBITDA pre margin in % of sales; **Including Corporate/Others (-€68.1 m) Totals may not add up due to rounding

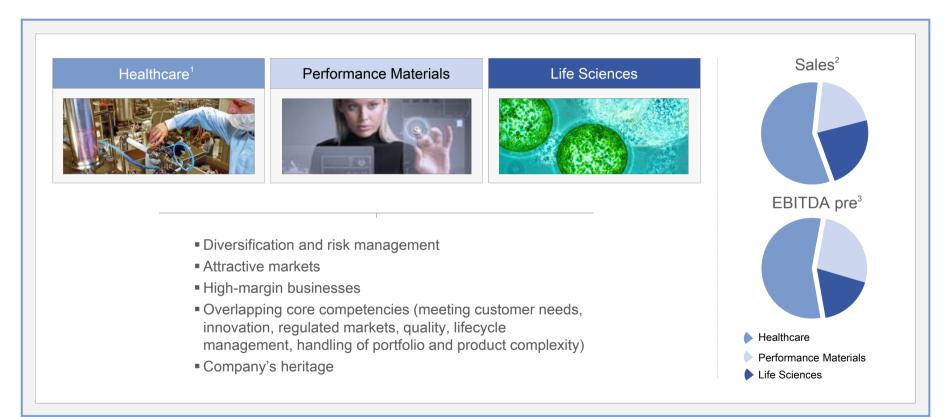
Emerging Markets with highest share of sales, despite tough FX environment



*Australia/Oceania, Africa

Our portfolio will remain diversified

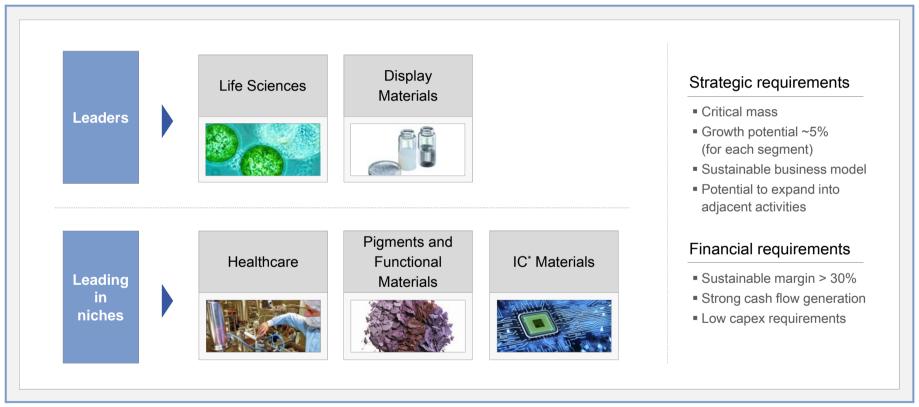




¹Healthcare includes Biopharmaceuticals and Consumer Health; ²Proforma calculation based on published figures for FY 2013 for Merck KGaA, Darmstadt, Germany and AZ Electronic Materials ³Proforma calculation including AZ Electronic Materials and 100% expected synergies; excluding Corporate+Other



All businesses in our portfolio have to meet stringent criteria



*Integrated Circuit



Agenda

Business overview

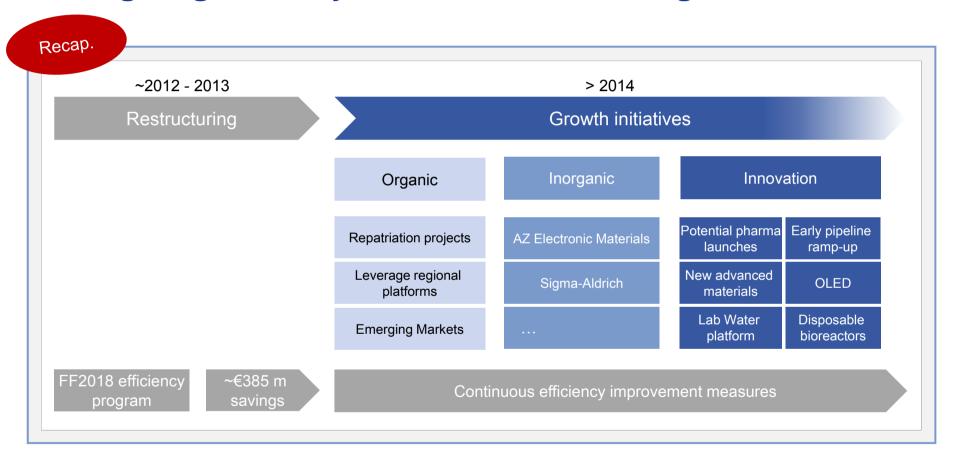
Next strategic step: quantum leap in Life Sciences

Update on Biopharmaceuticals

Financial review & guidance



Strategic agenda beyond 2014 - Focus on growth





In 2013 the majority of the savings program has been completed

Acceleration

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Biopharmaceuticals: €250 m

Consumer Health: €15 m

Performance Materials: €10 m

Life Science: €5 m

Total: €280 m

New disclosure 2013

Remaining 2014-2017*

Biopharmaceuticals: €275 m €25 m Consumer Health: €20 m €5 m

Performance Materials: €20 m €0 m

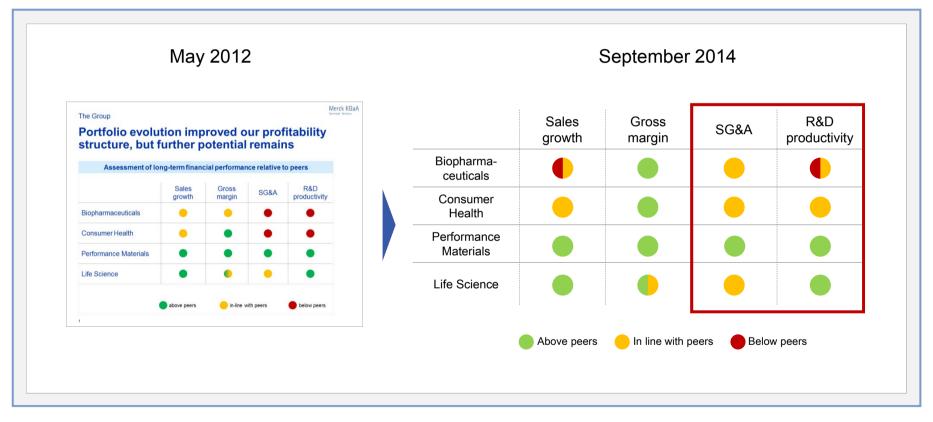
Life Science: €10 m €30 m

Total: €325 m €60 m

Swift implementation of efficiency measures: €325 m of €385 m completed



Strong progress since 2012 but further room for efficiency improvements





Ongoing efficiency initiatives to reduce costs and to support our growth strategy

Structures and processes

- Harmonization of IT systems
- Standardization of processes
- Leverage and upscale shared services



- Further reduction of operating leverage
- Additional focus on non-headcountrelated costs
- Permanent cost control as part of our DNA



Scalable business model enabling swift M&A integration and synergy generation

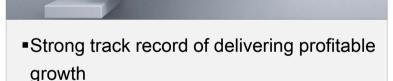


Sigma-Aldrich – Next step to enhance Life Science segment



- Attractive industry driven by sustainable underlying market trends
- Stable growth pattern, offering additional growth opportunities
- Strong companies with healthy margins

Taking our life science business to the next level



Adding scale with step change acquisition

A compelling transaction rationale



Strategic and operational fit

- ■Increasing scale expanding position in attractive life science industry
- Enhancing value for our customers
 - ■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

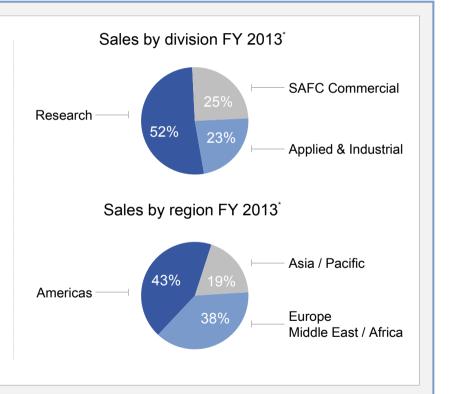
Sigma-Aldrich – A leading life science consumables supplier

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

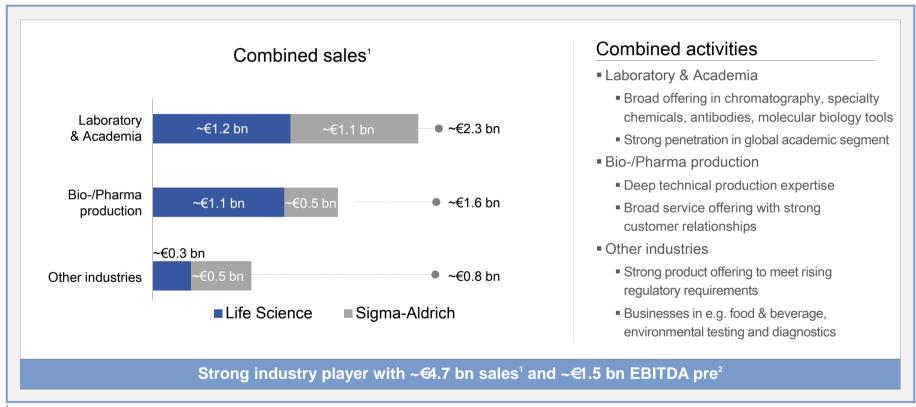
Footprint

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



*Company reports FY 2013

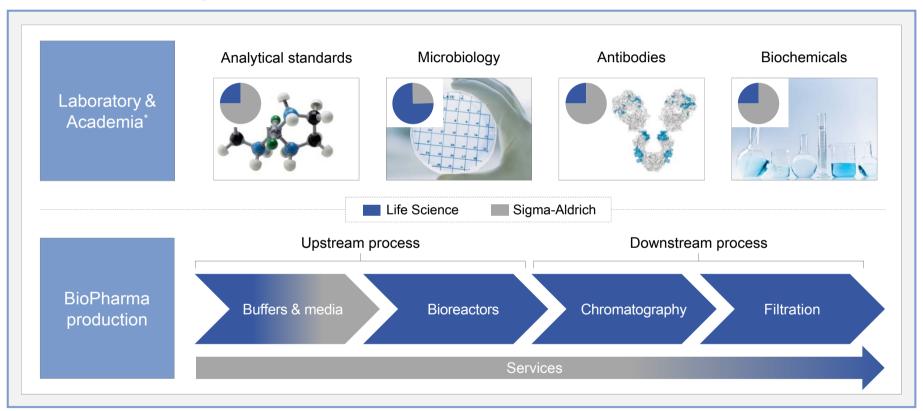
Merck KGaA, Darmstadt, Germany and Sigma-Aldrich – Presenting a leading life science industry player



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)

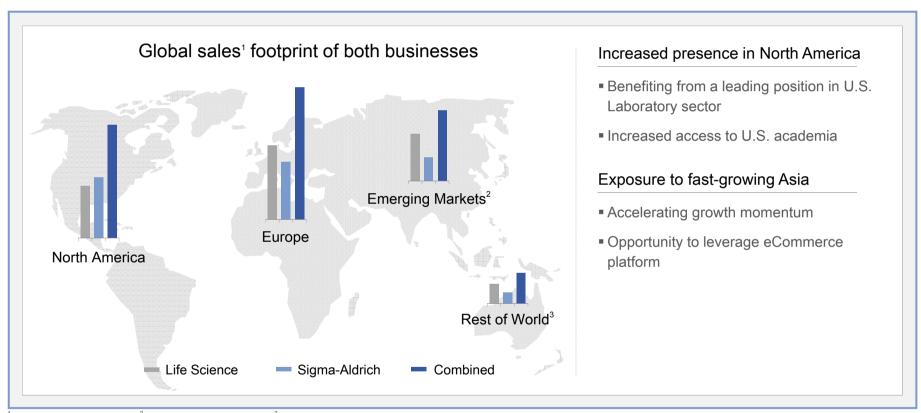
Broad and complementary product fit in attractive segments



*Key laboratory and academia areas illustrated

Expanding global reach and scale





¹Based on FY 2013 data in €m; ²Latin America, Asia w/o Japan; ³Japan, Australia/Oceania, Africa



Leveraging operational excellence to deliver superior value to customers

Product innovation

- Delivering innovative workflow solutions to increase customers' efficiency
- Broad technology and platforms
- Recurring winners of renowned innovation awards







Process innovation

- Efficient supply chain for >300,000 products
- Best in class customer experience;
 e.g. 24 hour delivery in major markets
- Top-notch customer interface supported by eCommerce platform





Efficient work flow solutions and unique customer experience

Sigma-Aldrich – Business and transaction financials



Overview of financial data ¹			
US\$ m	2012	2013	2014E⁴
Revenue	2,623	2,704	2,796
% YoY at constant FX	+3%	+3%	n.a.
EBITDA (adjusted)	809	821	852
% of sales	31%	30%	30%
D&A	136	138	132
% of sales	5%	5%	5%
Net financial debt (period end)	-41	-357	-466 ⁵
No. of shares (diluted, m)	122	121	n.a.

■ Equity value ~US\$17 bn (€13.1 bn)		
■ Enterprise value (EV) ~€12.7 bn including net cash ~€360 m		
■ Financing through cash and debt; no equity		
■ Assumed synergies: ~€260m		
■ In line with core acquisition criteria		
Immediately accretive to EPS pre		
 Solid investment grade rating will be maintained 		

Proposed transaction details²

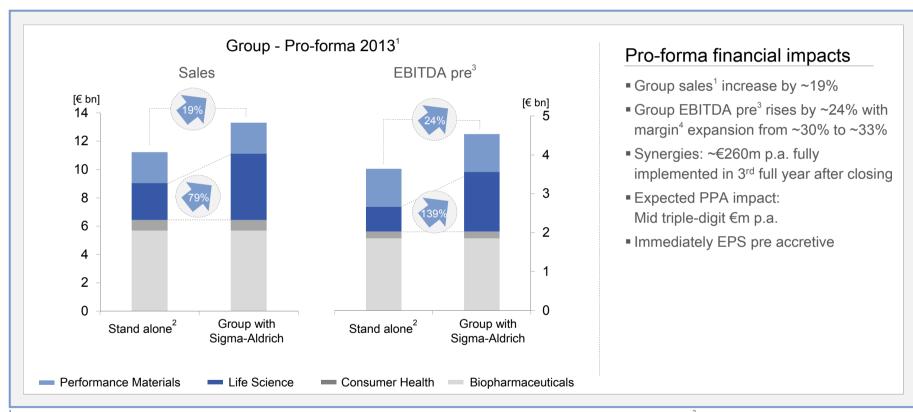
implica forward transaction	Tillulupico	
	2013	2014E ⁴
EV/Sales	6.1x	5.9x
EV/EBITDA	20.1x	19.4x
EV/EBITDA pro-forma incl. synergies ³	14.3x	13.9x

Implied forward transaction multiples³

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)

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 AZ Electronic Materials); ³Pro-forma calculation based on 100% expected synergies; excluding Corporate & Other; ⁴Including Corporate & Other; ²Including Corporate & Other; ²Including Corporate & Other; ⁴Including Corporate & Other; ⁴Including Corporate & Other; ⁵Including Corporate & Other; ⁶Including Corporate & Other; ⁶Including Corporate & Other; ⁸Including Corporate & Other; ⁸Including Corporate & Other; ⁸Including Corporate & Other; ⁸Including Corporate & Other; ⁹Including Corpora

Support from meaningful synergies



Our experience



- Significant restructuring and integration experience
- Deep knowledge and understanding of the life science industry

Source of synergies



- Consolidate manufacturing footprint
- Increase conversion to eCommerce channels
- Optimize sales & marketing
- Streamline admin functions and infrastructure
- Save U.S. public company costs
- Optimize R&D portfolio

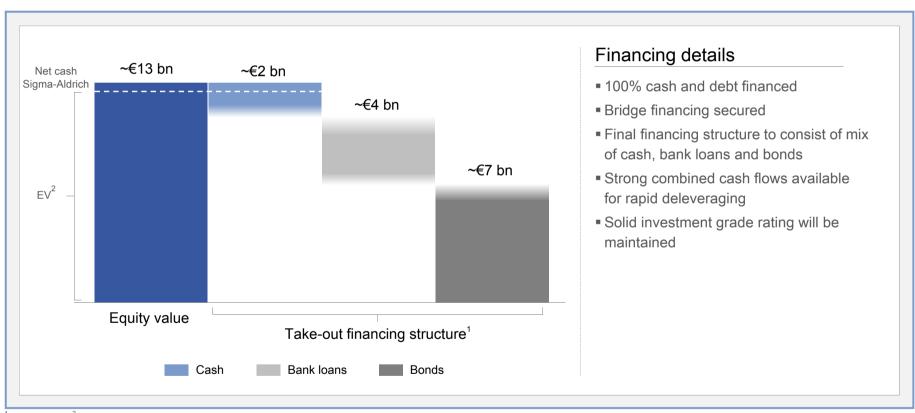
Planned delivery



- Synergies: ~€260 m, i.e. ~12% of Sigma-Aldrich sales
- Fully implemented in third full year after closing
- Expected integration costs:~€400 m; spread over 2015-2018

Sigma-Aldrich acquisition – Financing secured





¹Indicative only; ²Enterprise value



Agenda

Business overview

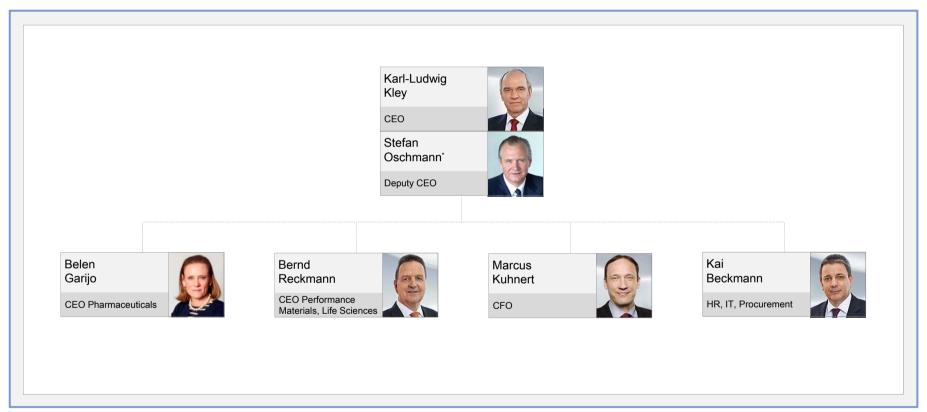
Next strategic step: quantum leap in Life Sciences

Update on Biopharmaceuticals

Financial review & guidance

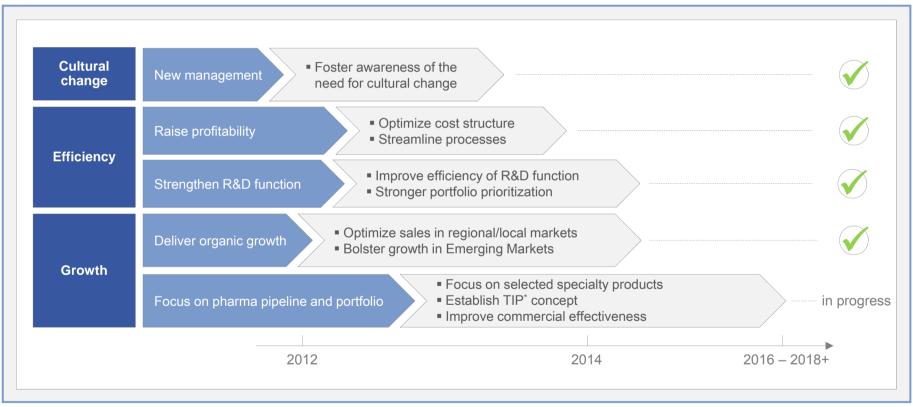
Executive Board as of January 1, 2015





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

A substantial number of "Fit for 2018" measures have already been implemented



*TIP = Translational Innovation Platform



Portfolio management: Differentiating across diverse business models

General Medicine portfolio



- Limited risk with high cash generation
- Sustainable steady growth fueled by Emerging Markets



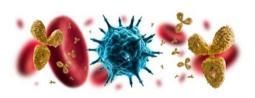
Biologicals portfolio



- Moderate risk and reward profile
- Economies of scale due to stateof-the-art production capabilities
- Emerging Markets gain importance



Oncology & Immunology innovation portfolio



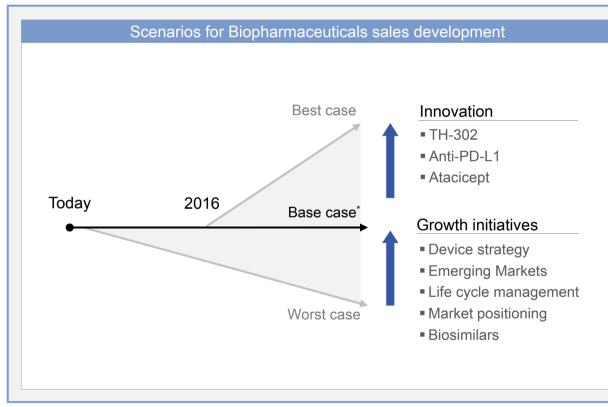
- High reward at high risk
- Innovation key success factor high R&D spend
- Promising pipeline projects



Mid-term, all parts of the portfolio need to earn their cost of capital



Growth initiatives will balance rising Rebif pressure – Darmstadt Germany 'Innovation projects' provide upside potential





Illustration; *without pipeline contribution



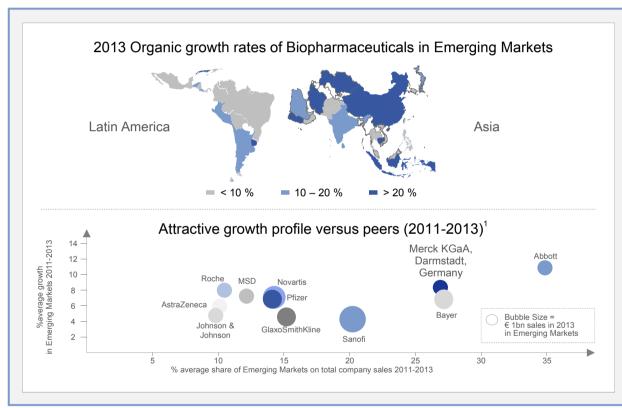
Strategic priorities are well defined to maximize core franchises

Oncology	Promote Erbitux' value to personalized treatments Increase RAS testing adoption and usage
Multiple Sclerosis	Strengthen Rebif's competitive position as a leading treatment Drive differentiation via smart devices and first MS* e-health platform
Fertility	Provide innovative services and technologies beyond drugs Drive Emerging Markets presence, especially in China and Russia
Devices and services	Promote as key differentiator of Biopharmaceuticals' business Build as a focus area of innovation and service to patients
General Medicine and others	Focus on growth in Emerging Markets Enhance life-cycle management and recover growth levers in core markets



*MS = multiple sclerosis

Emerging Markets are a key pillar of growth for Biopharmaceuticals



Key facts

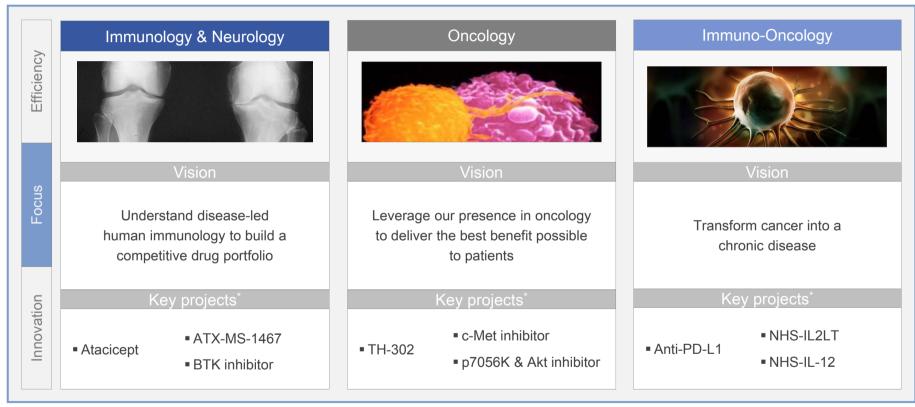
- Emerging Markets are a key driver for the branded products as well as for Biopharmaceuticals overall
- ~30% of sales in Emerging Markets
- ~50:50 breakdown between Latin America and Asia
- Emerging Markets account for >60% of organic growth 2011-2013²

Emerging Markets support existing business and serve as a platform for strategic growth initiatives

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



Commitment to scientific innovation makes a meaningful difference



*Examples

Anti-PD-L1 – A promising asset



PRODUCT PROFILE

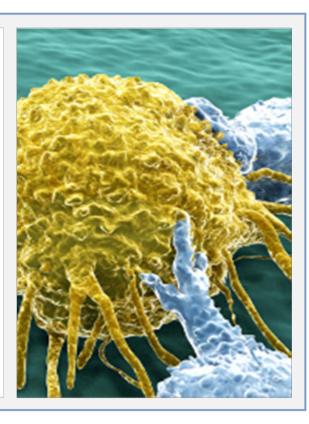
Increasing clinical evidence of competitive product profile

- Over 500 patients treated in Phase I study across multiple tumor types
- Interim analysis of expansion cohorts confirms promising risk/benefit on 2nd line NSCLC and heavily pre-treated ovarian cancer patients
- On-going Phase II study in m-Merkel cell carcinoma

Strategic approach

GLOBAL
CO-DEVELOPMENT
AND CO-COMMERCIALIZATION

- Competitive process for global co-development and cocommercialization has been initiated
- Decision will be driven by development, regulatory and commercial track record as well as deal financials
- Currently in advanced discussions with several oncology players





Agenda

Business overview

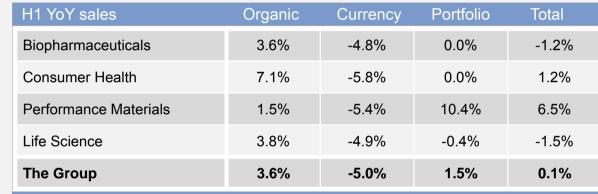
Next strategic step: quantum leap in Life Sciences

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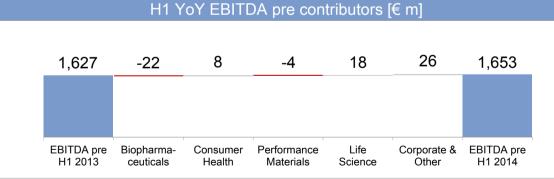
Financial review & guidance



All divisions post organic growth while currency headwinds continue



- Portfolio reflects the acquisition of AZ Electronic Materials
- Currency headwinds mainly driven by the U.S. dollar



- Life Science contributes with solid organic performance
- Performance Materials faces strong comparables
- Biopharmaceuticals affected by loss of Avonex and Enbrel royalty income
- Corporate & Other includes higher hedging gains versus last year

Totals may not add up due to rounding



H1 2014: Stable financials amid royalty income reduction and currency headwinds

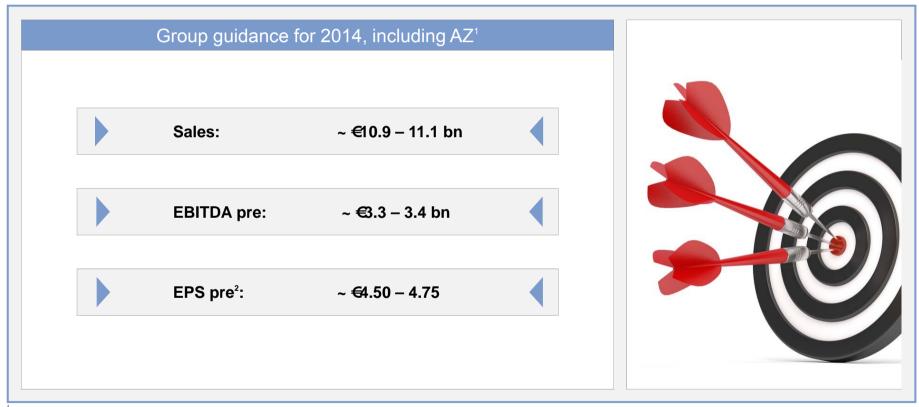
[€ m]	H1 2013	H1 2014	Δ
Sales	5,404	5,409	0.1%
EBITDA pre Margin (% of sales)	1,627 30.1%	1,653 30.6%	1.6%
EPS pre [€]	2.19	2.32	5.9%
Operating cash flow	958	838	-12.5%
[€ m]	Dec 31, 2013	June 30, 2014	Δ
Net financial debt	307	2,220	>100%
Working capital	2,132	2,434	14.2%
Employees	38,154	39,230	2.8%
Net financial	debt increases on AZ	acquisition	

H1 2014

- Sales stable as organic growth and portfolio offset negative FX effects
- EBITDA pre and EPS pre improve on solid organic performance and AZ despite loss of royalty income
- Operating cash flow burdened by higher tax payments
- Jump in working capital reflects consolidation from AZ
- Increase in headcount includes
 ~1,150 employees from AZ

Full-year guidance confirmed





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

Guidance details



Biopharmaceuticals



Sales

Slight organic growth

EBITDA pre

~ €1,750 – 1,830 m

Consumer Health



Sales

Moderate organic growth

EBITDA pre

~ €170 – 180 m

Performance Materials



Sales

Slight organic growth

EBITDA pre^{*}

~ €850 – 880 m

Life Science



Sales

Moderate organic growth

FBITDA pre

~ €640 – 670 m

Group 2014 guidance: ~ €3.3 to €3.4 billion EBITDA pre

Merck KGaA

Darmstadt · Germany







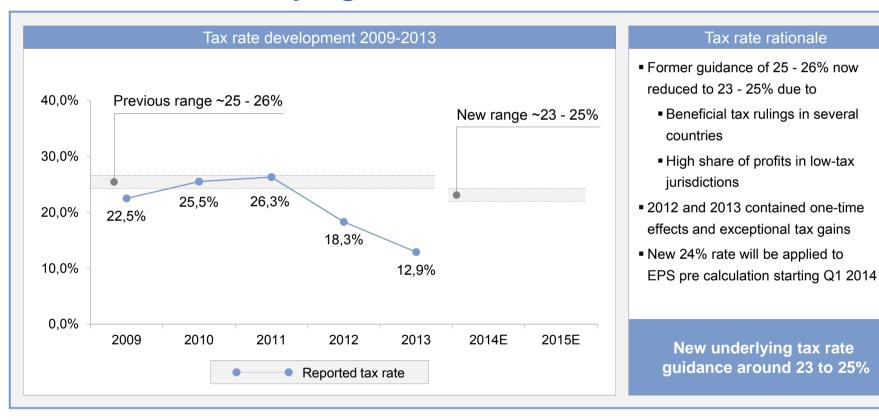
Additional financial guidance

Further fina	ancial details
Group royalty, license and commission income in 2015	~€130 – 150 m
Corporate & Other EBITDA pre	~€ -160 – 190 m
Underlying tax rate	~23% to 25%
Capex on PPE and software	~€450 - 500 m
Hedging / USD assumption	2014 & 2015 hedge rate ~30% at EUR/USD ~1.30 to 1.35



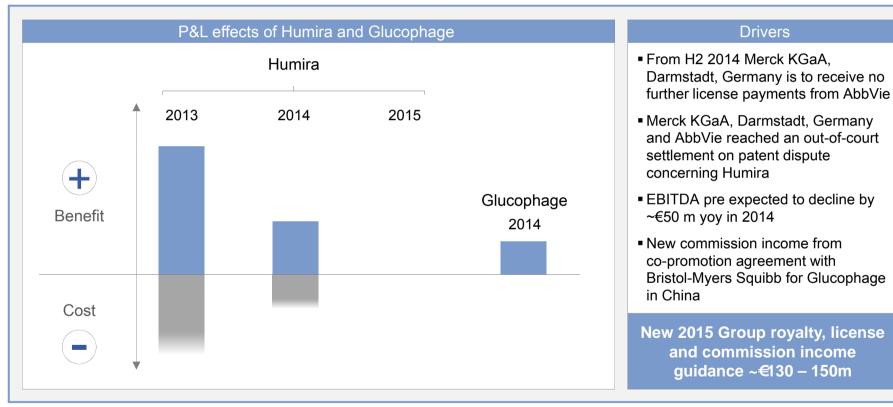


Favorable tax rulings in several countries result in decrease in underlying tax rate





Settlement on patent dispute with AbbVie, while BMS co-promotion will yield first results



Illustration





Growth will be driven by emerging markets, especially China and Brazil Biopharmaceuticals Mature markets will continue to be affected from austerity measures Industry growth of ~5% in Consumer Health end markets Consumer Health Emerging markets grow mid to high-single digit, European growth lower LC display market growth fueled by trend to larger displays **Performance Materials** World automotive market forecasted to grow low-single digit Biotech R&D investments increase, benefiting Process Solutions Life **Science** Lab supply market grows 1-2%; austerity measures affect Bioscience

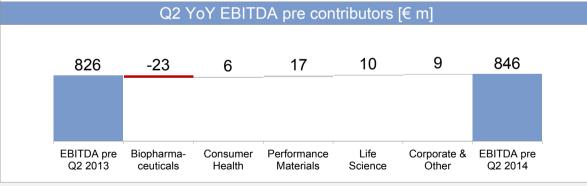




All our businesses drive organic growth while currency headwinds remain

Q2 YoY sales	Organic	Currency	Portfolio	Total
Biopharmaceuticals	3.0%	-4.4%	0.0%	-1.4%
Consumer Health	8.5%	-5.2%	0.0%	3.3%
Performance Materials	1.8%	-5.1%	20.5%	17.3%
Life Science	4.0%	-4.2%	-0.9%	-1.1%
The Group	3.4%	-4.5%	3.0%	1.9%

- Portfolio reflects the acquisition of AZ Electronic Materials
- Currency headwinds mainly driven by U.S. dollar & related currencies



- Performance Materials contains two months EBITDA pre from AZ
- Biopharmaceuticals affected by loss of Avonex and Enbrel royalty income
- Corporate & Other includes higher hedging gains (~€10 m) versus LY

Totals may not add up due to rounding

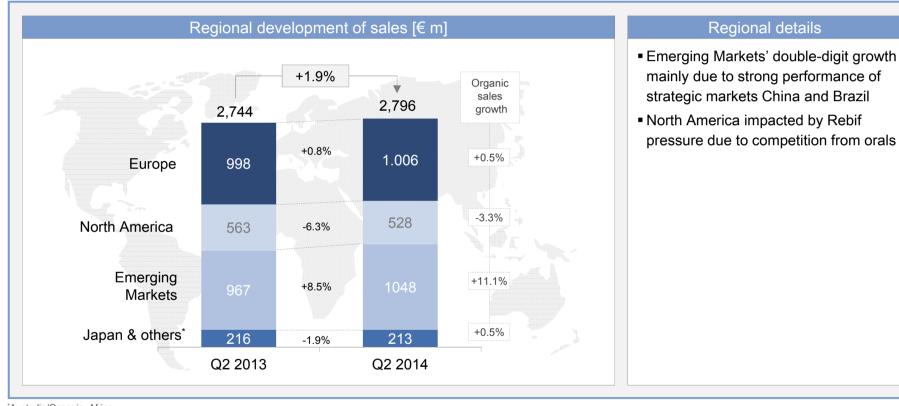
Q2 2014: Solid financials amid royalty reduction & FX Merck KGaA



[€ m]	Q2 2013	Q2 2014	Δ	Q2 2014
Sales	2,744	2,796	1.9%	 Sales up on organic improvement & portfolio overcompensating for
EBITDA pre	826	846	2.3%	negative currency effects
Margin (% of sales)	30.1%	30.3%		■ EBITDA pre and EPS pre up on
EPS pre [€]	1.13	1.16	2.7%	organic performance and portfolio despite loss of royalty income
Operating cash flow	443	429	-3.0%	 Underlying operating cash flow remains on healthy level
[€ m]	Dec 31, 2013	June 30, 2014	Δ	 Jump in working capital reflects
Net financial debt	307	2,220	>100%	consolidation from AZ
Working capital	2,132	2,434	14.2%	■ Increase in headcount includes ~1,150 employees from AZ
Employees	38,154	39,230	2.8%	
Net financial d	ebt increases on AZ	acquisition		

Merck KGaA

Double-digit growth in Emerging Markets, all divisions contribute



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



Reported earnings contain AZ inventory step-up

[€ m]	Q2 2013	Q2 2014	Δ	Reported results
EBIT	465	441	-5.2%	■ EBIT contains AZ inventory step-up of ~€30 m, fully expensed in
Financial result	-49	-50	3.5%	cost of sales Tax rate benefits from favorable
Profit before tax	417	391	-6.3%	regional profit split and one-time tax refund
Income tax	-101	-85	-15.8%	
Tax rate (%)	24.2%	21.7%		
Net income	316	303	-4.0%	
EPS (⊜	0.73	0.70	-4.1%	



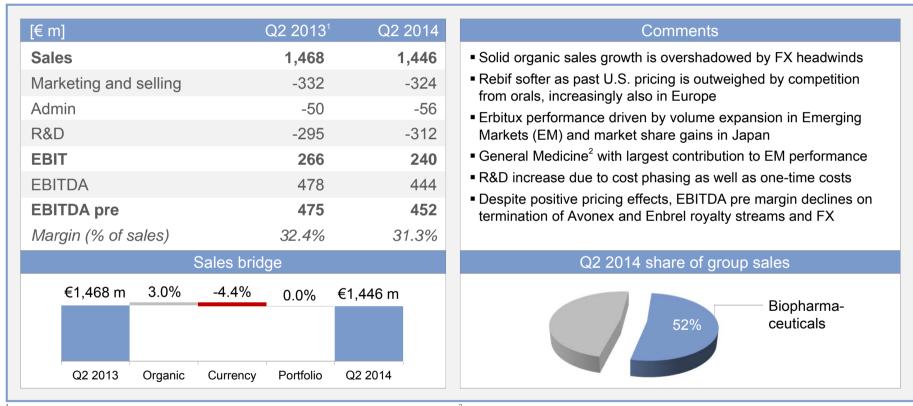
Solid business performance leads to EPS increase

[€ m]	H1 2013	H1 2014	Δ	Reported results
EBIT	865	909	5.1%	■ EBIT up on organic growth and lean cost structure, offsetting lower
Financial result	-107	-85	-20.8%	royalties, one-time costs and FX • Financial result improves on lower interest payments due to bond
Profit before tax	758	824	8.8%	repayment and CTA* funding • Net income increases on solid H1
Income tax	-172	-191	10.7%	operational performance, partly offs by one-time effects of AZ acquisition
Tax rate (%)	22.8%	23.2%		
Net income	582	628	8.0%	
EPS (⊜	1.34	1.45	8.2%	

*Contractual Trust Arrangement



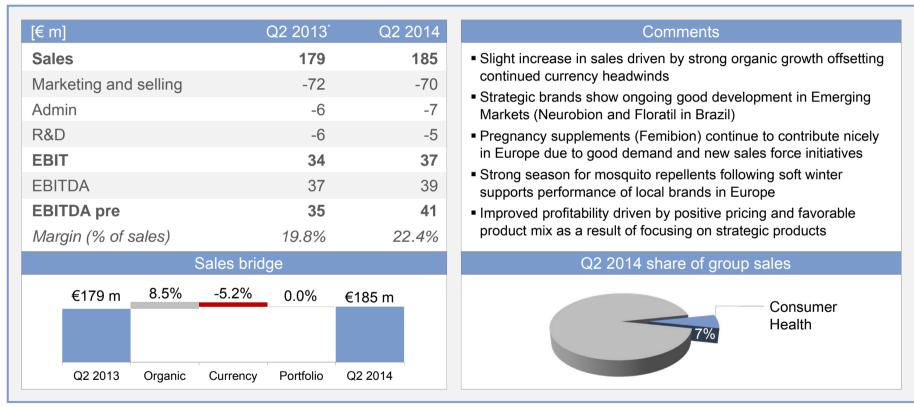
Biopharmaceuticals: Emerging Markets drive organic growth



¹Restated for product reclassification of Neurobion and Floratil from Biopharmaceuticals to Consumer Health; ²includes "Cardiometabolic Care & General Medicine and Others"

Consumer Health: Strategic brands fuel growth

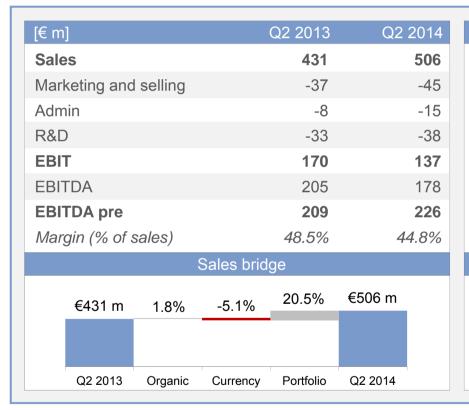




*Restated for product reclassification of Neurobion and Floratil from Biopharmaceuticals to Consumer Health

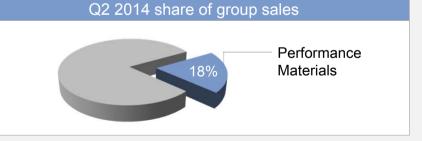
Performance Materials: First quarter of AZ contribution





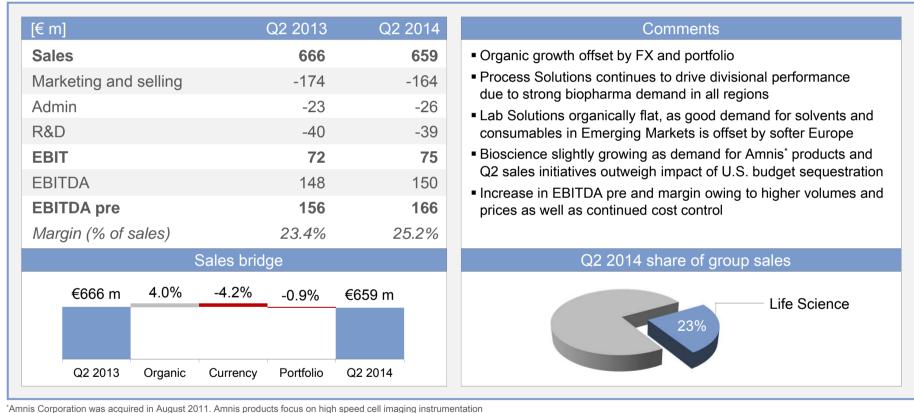
Comments

- Sales increase as organic growth and portfolio effects from AZ more than offset currency headwinds
- Liquid Crystals with healthy demand for flagship technologies PS-VA and IPS yields sound organic growth on tough comparables
- AZ with slight organic growth mainly from Optronics
- Solid demand from coating industry for Xirallic products yields slight organic growth in Pigments
- Reported EBIT and EBITDA contain AZ inventory step-up



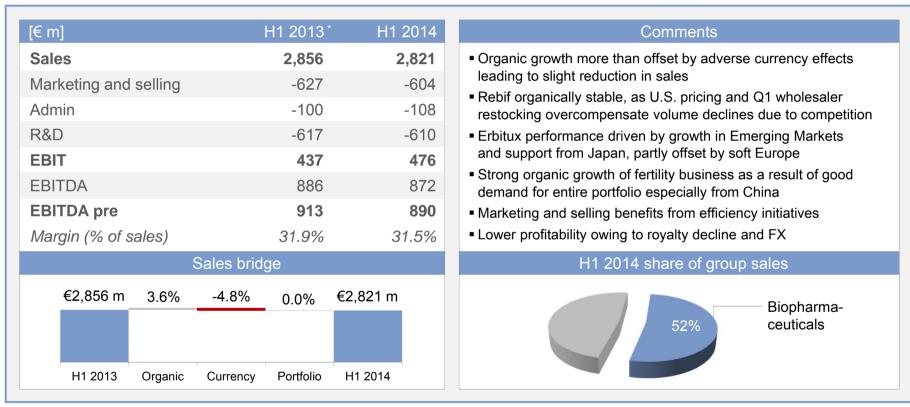
Life Science: Profitable growth in Process Solutions







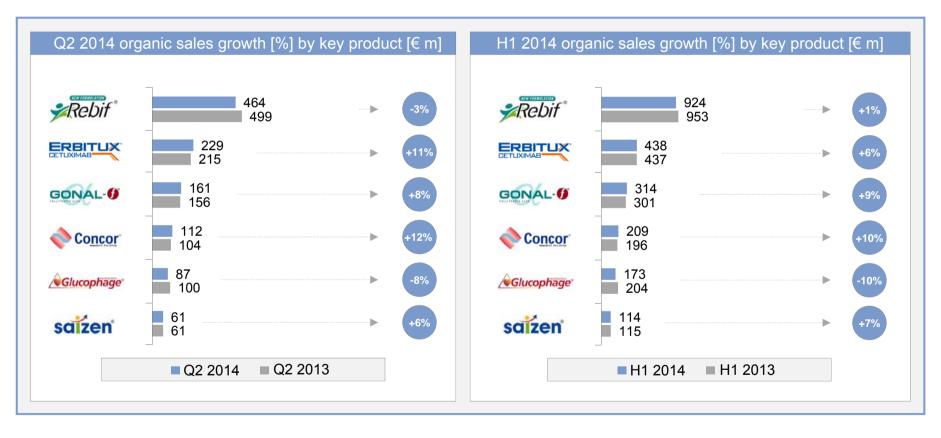
Biopharmaceuticals: Solid performance supported by all franchises amid royalty income reduction



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

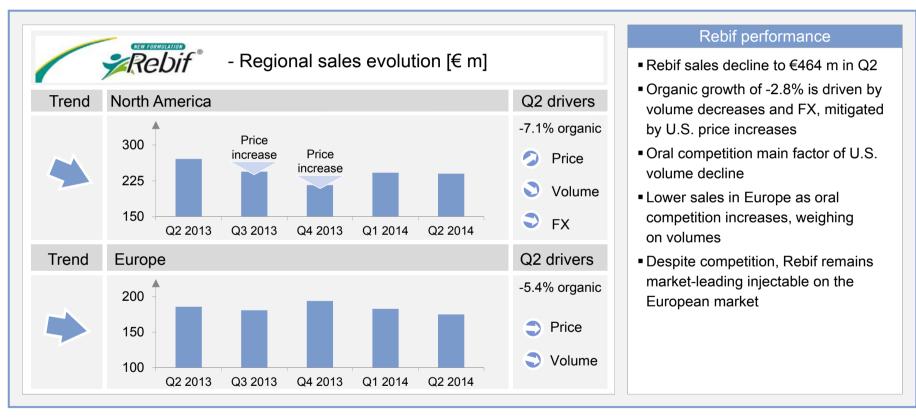


Biopharmaceuticals organic growth by product



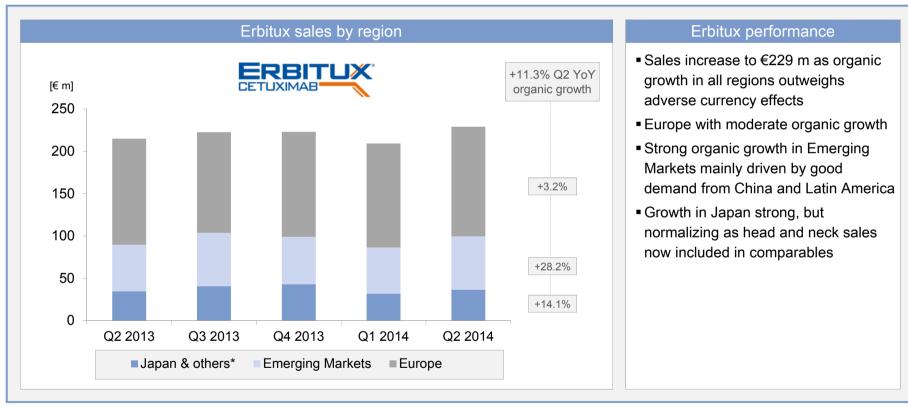


Rebif – defending market leadership in Europe; competitive pressure in the U.S.



Erbitux – Strong in Emerging Markets and Japan

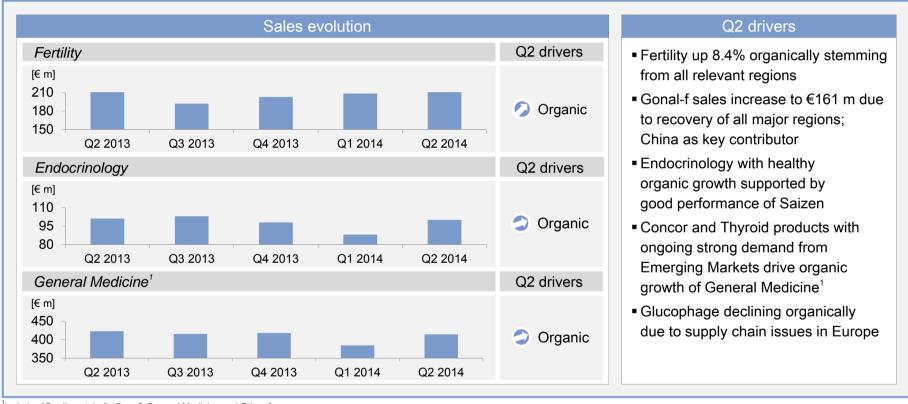




*Australia/Oceania, Africa



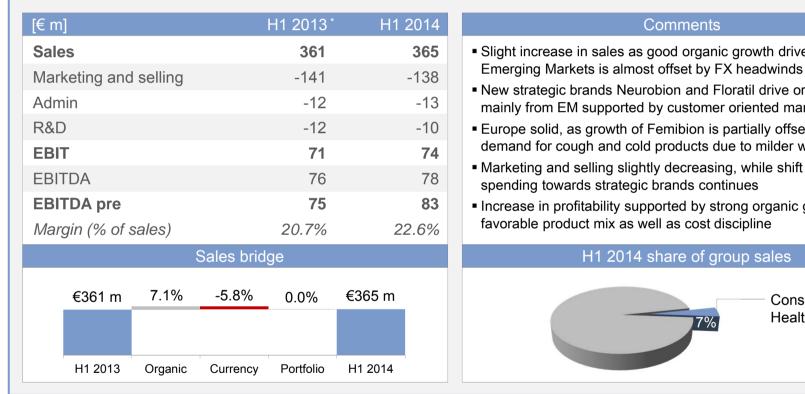
Strong growth in Fertility while Endocrinology and General Medicine grow more moderately



¹includes "Cardiometabolic Care & General Medicine and Others"

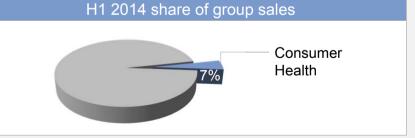


Consumer Health: Focus on strategic brands in **Emerging Markets drives performance**



■ Slight increase in sales as good organic growth driven by
Emerging Markets is almost effect by EV beadwinds

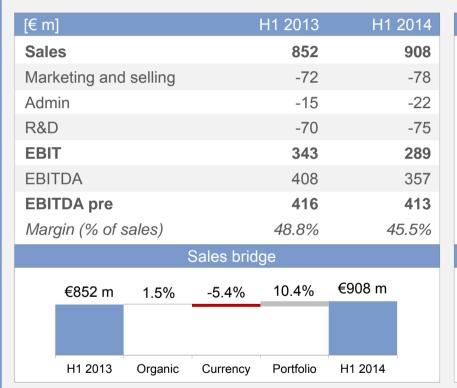
- New strategic brands Neurobion and Floratil drive organic growth mainly from EM supported by customer oriented marketing
- Europe solid, as growth of Femilion is partially offset by soft demand for cough and cold products due to milder winter
- Marketing and selling slightly decreasing, while shift in promotional spending towards strategic brands continues
- Increase in profitability supported by strong organic growth, favorable product mix as well as cost discipline



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



Performance Materials: Solid performance amid high comparables and strong currency headwinds

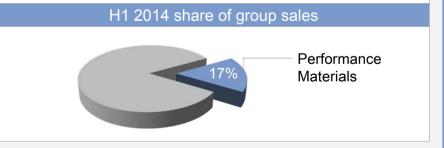


ingrees on clight arrenic growth and nortfeli

- Sales increase as slight organic growth and portfolio effects overcompensate for negative FX effects
- LC* organically flat, facing tough comparables due to last year's strong demand and subsidy program for consumers in China

Comments

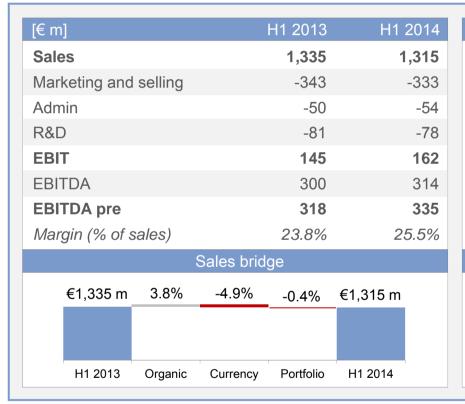
- LC* flagship technologies benefitting from ongoing demand
- Pigments benefits from coating industry demand for Xirallic products
- Cost base reflects portfolio effects from AZ
- EBITDA pre stable, reflecting high comparables, FX headwinds as well as the contribution from AZ



*Liquid Crystals

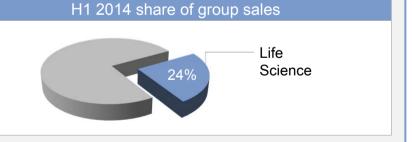


Life Science: Growth in Process Solutions improves profitability



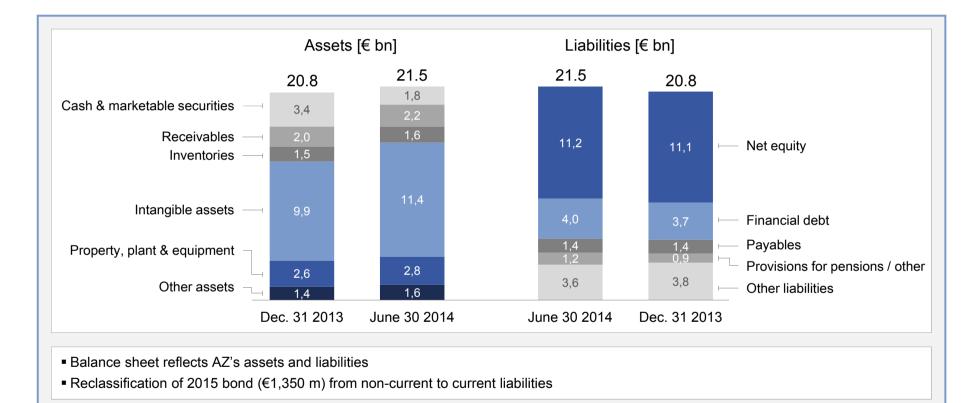
Comments

- Sales decrease slightly as organic growth is more than offset by FX mainly driven by U.S. dollar and Japanese yen
- Process Solutions growth driven by biopharma demand for filtration and single-use products mainly stemming from EM and Europe
- Bioscience organically flat, as solid demand for cell imaging devices in Q2 mitigates soft U.S. academia demand
- Demand for consumables and water purification solutions in Emerging Markets drive organic growth in Lab Solutions
- Profitability increases due to solid volumes, pricing as well as ongoing cost discipline in marketing and selling



Balance sheet: A strong foundation





Totals may not add up due to rounding

Solid operating cash flow in Q2 2014



[€ m]	Q2 2013	Q2 2014	Δ	Cash flow drivers
Profit after tax	316	306	-10	 Lower profit after tax impacted by one-time inventory step-up from AZ
D&A	328	326	-2	Lower interest and tax payments driv
Changes in provisions	-20	-42	-22	changes in other assets and liabilitie
	000	4.4.4	0.0	■ Changes in working capital reflect
Changes in other assets / liabilities	-203	-141	62	increase in receivables
Other operating activities	-32	-10	23	 Investing cash flow contains disposate of financial assets and purchase of a
Changes in working capital	54	-10	-64	■ Payment for AZ and repayment of its
Operating cash flow	443	429	-13	loans drive financing cash flow
Investing cash flow	-268	-1,233	-966	
thereof Capex ⁻	-120	-85	35	
Financing cash flow	-115	-855	-740	

¹Only PPE without intangibles Totals may not add up due to rounding

Underlying cash flow strength

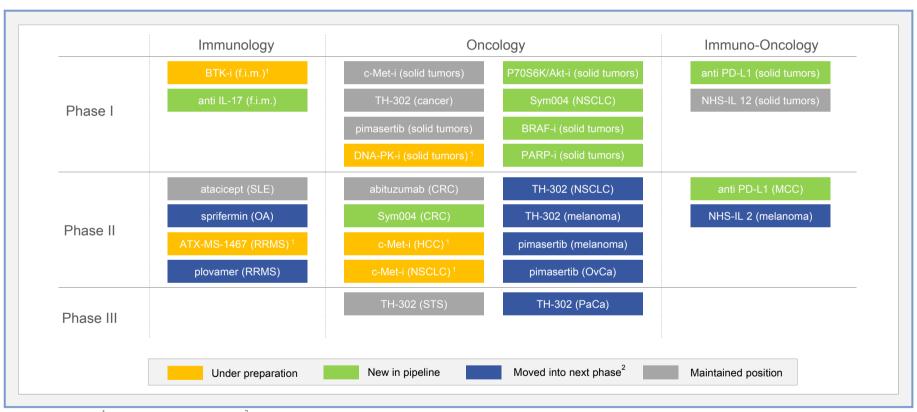


[€ m]	H1 2013	H1 2014	Δ	Cash flow drivers
Profit after tax	585	633	48	 Higher profit after tax due to sound business performance
D&A	682	628	-54	■ D&A lower as LY included restructuring
Changes in provisions	3	-89	-92	related-impairment as well as amortization for Avonex intangible
Changes in other assets / liabilities	-131	-215	-84	■ Changes in provisions contains lower
Other operating activities	-40	-4	36	provisions for LTIP ² & pensions vs. LY
Changes in working capital	-141	-115	26	 Increase in changes in other assets and liabilities is mainly driven by higher tax payments
Operating cash flow	958	838	-120	■ Operating cash flow decreases on
Investing cash flow	-592	-134	458	lower provisions & higher tax paymen Investing and financing cash flows
thereof Capex ¹	-157	-142	15	reflect AZ acquisition
Financing cash flow	-222	-848	-627	

¹Only PPE without intangibles; ²Long Term Incentive Plan Totals may not add up due to rounding



Therapeutic areas of focus determine revamped R&D pipeline



As of September 2014; ¹Under preparation for this phase; ²Since Capital Markets Day in May 2012



Indicative timeline for pipeline priority projects in selected indications

TH-302		Phase III	Soft Tissue Sarcoma	Interim Analysis	H2 2014
poets Linker / NH	TH-302			Primary Analysis Date	H2 2015
Warneed		Phase III	Pancreatic Cancer	Primary Analysis Date	H1 2016
Pig.		Phase I	Various Indications	Interim Analysis	H2 2014
	Anti-PD-L1		mMCC ²	Primary Completion Date	H1 2016
1		Phase III	Various Indications	Under Preparation	H2 2014
Y	Atacicept	Phase II	SLE ³	Primary Completion Date	H1 2016

¹As of September 2014; ²Metastatic Merkel Cell Carcinoma; ³Systemic Lupus Erythematosus

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