

ANNUAL SHAREHOLDERS MEETING

BRIDGEWATER MARRIOTT

Forward-Looking Statement of Merck & Co., Inc., Kenilworth, NJ, USA

This presentation of Merck & Co., Inc., Kenilworth, N.J., USA (the "company") includes "forward-looking statements" within the meaning of the safe harbor provisions of the U.S. Private Securities Litigation Reform Act of 1995. These statements are based upon the current beliefs and expectations of the company's management and are subject to significant risks and uncertainties. There can be no guarantees with respect to pipeline products that the products will receive the necessary regulatory approvals or that they will prove to be commercially successful. If underlying assumptions prove inaccurate or risks or uncertainties materialize, actual results may differ materially from those set forth in the forward-looking statements.

Risks and uncertainties include but are not limited to, general industry conditions and competition; general economic factors, including interest rate and currency exchange rate fluctuations; the impact of pharmaceutical industry regulation and health care legislation in the United States and internationally; global trends toward health care cost containment; technological advances, new products and patents attained by competitors; challenges inherent in new product development, including obtaining regulatory approval; the company's ability to accurately predict future market conditions; manufacturing difficulties or delays; financial instability of international economies and sovereign risk; dependence on the effectiveness of the company's patents and other protections for innovative products; and the exposure to litigation, including patent litigation, and/or regulatory actions.

The company undertakes no obligation to publicly update any forward-looking statement, whether as a result of new information, future events or otherwise. Additional factors that could cause results to differ materially from those described in the forward-looking statements can be found in the company's 2017 Annual Report on Form 10-K and the company's other filings with the Securities and Exchange Commission (SEC) available at the SEC's Internet site (www.sec.gov).





KEN FRAZIER, CHAIRMAN AND CEO

KEYTRUDA Offering New Hope for Patients with Lung Cancer

FORTUNE

Merck's Lung Cancer Triumph

Bloomberg

Lung Cancer Drug Trial Data: Keytruda Tops Opdivo Again

Forbes

Adding Merck's
Keytruda To Chemo
Halves Death Risk
For Lung Cancer
Patients





"The totality of the clinical benefit seen in 189 sets a very high competitive bar in 1L NSCLC"



" ... MRK will remain in the driver's seat, in terms of IO penetration into the all-important 1L lung cancer market."



OUR MISSION

TO DISCOVER, DEVELOP AND PROVIDE INNOVATIVE PRODUCTS AND SERVICES THAT SAVE AND IMPROVE LIVES AROUND THE WORLD

OUR VISION

WE ARE COMMITTED TO BEING THE PREMIER, RESEARCH-INTENSIVE **BIOPHARMACEUTICAL COMPANY**



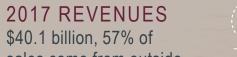
140 countries



EMPLOYEES worldwide (as of 12/31/17)



Merck & Co., Inc. is listed on the New York Stock Exchange and has a market cap of \$150 billion

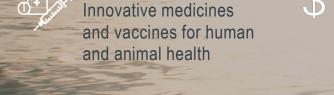


\$40.1 billion, 57% of sales come from outside the United States



\$7.3 billion (non-GAAP); More than 30 indications across 10 disease areas

2017 R&D EXPENSE



BUSINESSES



FOR MORE THAN A CENTURY, MERCK HAS BEEN INVENTING

TO SOLVE SOME OF THE GREATEST HEALTH CHALLENGES AROUND THE WORLD

Merck for Mothers established to reduce maternal deaths worldwide

First chickenpox se Vial 0.5 mL vaccine VARICELLA VIRUS VACCINE LIVE (Oka/Merck) STORE FROZEN

FDA approves Merck vaccines for HPV cancers, shingles rotavirus



streptomycin made rights public



Introduced thibenzole, first drug known to kill trichinella in



First to isolate broad-spectrum

antibiotics

First pneumonia vaccine

CRIXIVAN developed for HIV and rubella vaccines

First long-term

measles vaccine

and first mumps

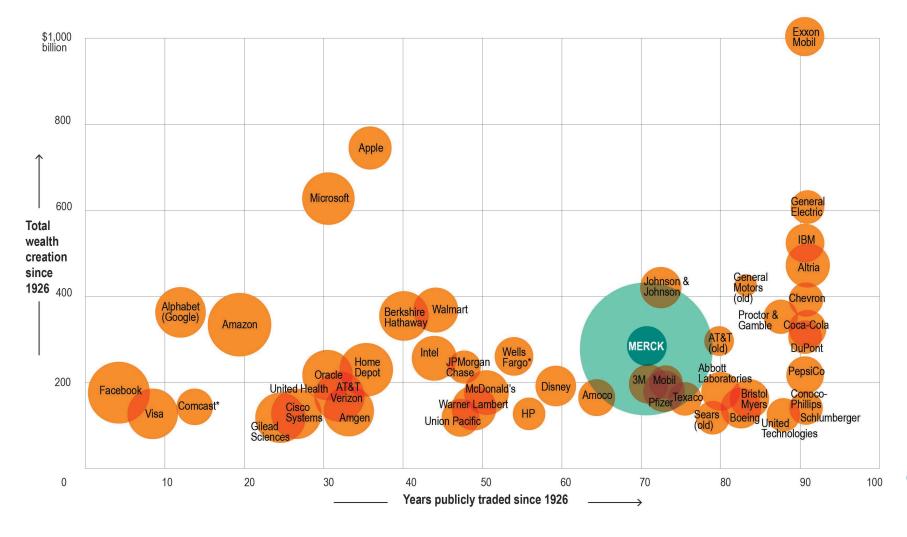
Discovered and started donation of MECTIZAN to eliminate river blindness



Keytruda[®]



THE 50 COMPANIES THAT CREATED THE MOST VALUE FROM 1926 TO 2016



Merck is among the top companies which have created the most value over the last century



Circles are sized by the company's compound annualized stock return

Source: The New York Times, September 22, 2017 (https://www.nytimes.com/2017/09/22/business/app le-investment.html?mcubz=0)





INVESTING IN TOMORROW'S SCIENCE





FY2017 Highlights: SALES & EARNINGS

NON-GAAP EPS: **\$3.98** FY2017 NON-GAAP



GAAP EPS: \$0.87 FY2017 GAAP



P&L (Non-GAAP)

nt of C	ash Flows for the Graup	FY 2017	Ex-Exchange % vs. Prior
	Sales	\$40.1B	1%
W) G	PGM PGM%	\$30.7B 76.4%	2%
8 00	Operating Expense M&A Expense R&D Expense	\$17.1B \$9.8B \$7.3B	4% 2% 7%
5	Net Income	\$10.9B	4%
	Non-GAAP EPS	\$3.98	5%
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1Q18 Key Highlights

1Q18 WORLDWIDE SALES

MERCK

\$10.0B

+6% GROWTH +3% EX-EXCHANGE



PHARMACEUTICAL SALES

\$8.9B

+9% GROWTH +4% EX-EXCHANGE



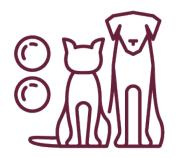
KEY DRIVERS

Continued growth from KEYTRUDA and GARDASIL / GARDASIL 9

ANIMAL HEALTH SALES

\$1.1B

+13% GROWTH +7% EX-EXCHANGE



KEY DRIVERS

Continued strength in Ruminants and Companion Animals



1Q 2018 Highlights: SALES & EARNINGS

NON-GAAP EPS: \$1.05



nt of

GAAP EPS: \$0.27



P&L (Non-GAAP)

Cash Flows for the Group	1Q 2018	Ex-Exchange % vs. Prior
Sales	\$10.0B	3%
PGM PGM%	\$7.6B 75.7%	2% 2/383 2/42 2/42
Operating Expense M&A Expense R&D Expense	\$4.3B \$2.5B \$1.8B	-2% -1% -3%
Net Income	\$2.8B	16%
Non-GAAP EPS	\$1.05	18%
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OUR PILLARS OF GROWTH DRIVE LONG-TERM VALUE





FOUNDATION OF DIVERSIFIED BRANDS

ONCOLOGY

We are a leader in immuno-oncology. KEYTRUDA is approved to treat first-line lung cancer and demonstrated improvement in overall survival

KETRUDA° (pembrolizumab) Injection 100 mg

approved markets

>700 trials

+25 tumor types

10 indications

20+ novel mechanisms in the pipeline



"Right then where I was done with Keytruda, they said you're cancer free. I just grabbed my doctor and hugged her."

Joann **KEYTRUDA Clinical Trial Patient**



VACCINES

Our purpose is to protect current and future generations from preventable infectious diseases

Live the Legacy. Protect the Future.



Merck has a rich legacy in vaccines, which are responsible for some of the largest advances in public health



OVER 100 YEARS OF DEVELOPING VACCINES*

1895

Mulford began producing first diphtheria toxoid

1898

H.K. Mulford Co. introduces its smallpox vaccine

1963

MSD licenses its first measles vaccine in the US

MSD's Dr. Hilleman isolates the mumps virus used to create the first mumps vaccine

1967

MSD introduces the first vaccine against mumps

1969

MSD introduces the first vaccine against rubella

1971

M-M-R® trivalent vaccine introduced

1977

MSD licenses a vaccine against pneumococcal disease

1978



1981

First plasma-derived hepatitis B vaccine licensed, Heptavax-B (Hepatitis B Vaccine)

1983

PNEUMOVAX 23
(Pneumococcal Vaccine Polyvalent)

1986



1990

PedvaxHIB*
[Haemophilus b Conjugate Vaccine
(Moningococcal Protoin Conjugate)]

1995



1996



COMVAX®

[Haemophilus b Conjugate (Meningococcal Protein Conjugate) and Hepatitis B (Recombinant) Vaccine] 2005



2006







2014



2016



(EU)^

1890s

1960s

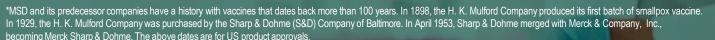
1970s

1980s

1990s

2000s

2010s







Pipeline projects include areas where we are:

Building on our legacy in

HIV

Continuing our commitment to address the challenges in

neuroscience

Remain committed to finding new

antibiotics



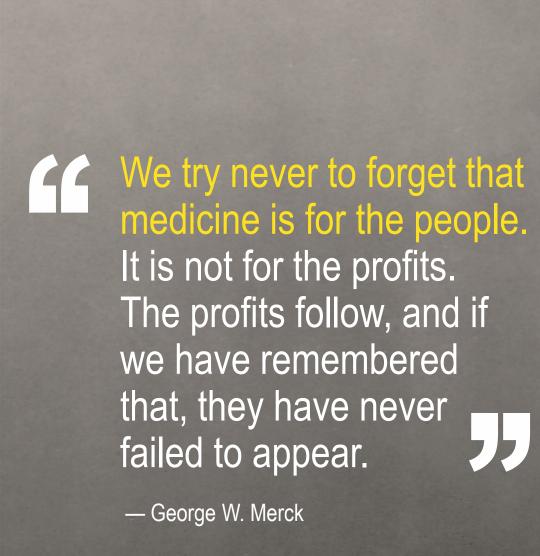


Animal Health Represents an Important Pillar of Growth

+7%* vs. prior year – growth across:

- Companion Animals a broadbased portfolio
- Livestock added impact from Vilsan and Vallée acquisitions









RESEARCH AND DEVELOPMENT HIGHLIGHTS

ANNUAL SHAREHOLDERS MEETING MAY 22, 2018

ROGER M. PERLMUTTER





Explore combinations and other novel agents to broaden our portfolio in an effort to reach more patients

Establish KEYTRUDA as **foundational treatment**

in monotherapy and in combination across multiple tumor types



Form strategic
collaborations and
acquisitions to expand
oncology portfolio



Identify patients most likely to benefit through evaluation of biomarkers

MERCK ONCOLOGY

A LEADER IN
DELIVERING
BREAKTHROUGH
APPROACHES
THAT EXTEND AND
IMPROVE THE
LIVES OF PEOPLE
WITH CANCER



Merck is Advancing Research to Improve Outcomes for Cancer Patients

700+ Clinical trials studying over 30 tumor types



10 Approved indications



with our partners

Assets under collaboration



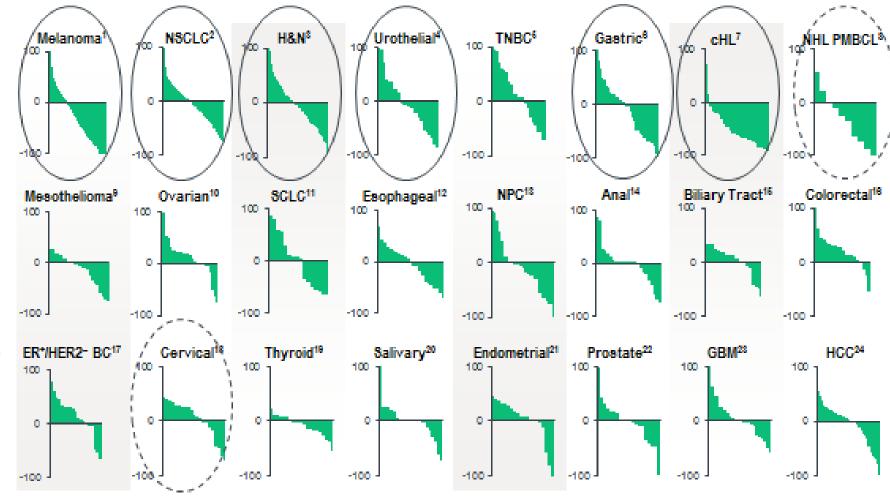








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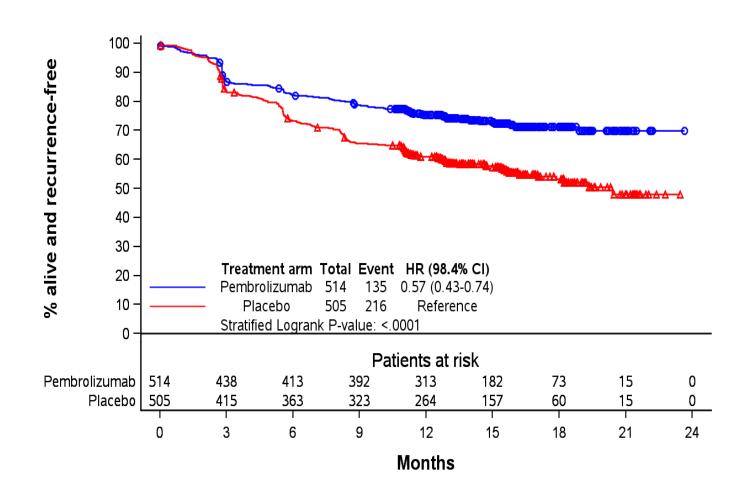
approved - - - under review

KEYTRUDA DEMONSTRATED ANTI-TUMOR ACTIVITY IN MORE THAN 25 CANCER TYPES



^{1.} Daud A et al. ASCO 2015; 2. Garon EB et al. ESMO 2014; 3. Seiwert T et al. ASCO 2015; 4. Plimack E et al. ASCO 2015; 5. Nanda R et al. SABCS 2014; 6. Bang YJ et al. ASCO 2015; 7. Moskowitz C et al. ASH 2014; 8. Zinzani PL et al. ASH 2015; 9. Alley EA et al. AACR 2015; 10. Varga A et al. ASCO 2015; 11. Ott PA et al. 2015 ASCO; 12. Doi T et al. ASCO 2015; 13. Hsu C et al. ECC 2015; 14. Ott PA et al. ECC 2015; 15. Bang Y-J et al. ECC 2015; 16. O'Neil B et al. ECC 2015; 17. Rugo HS et al. SABCS 2015; 18. Frenel JS et al. ASCO 2016; 19. Mehnert JM et al. ASCO 2016; 20. Cohen R et al. ASCO 2016; 21. Ott PA et al. ASCO 2016; 22. Hansen AR et al. ESMO 2016; 23. Reardeon D et al. SNO 2016; 24. Zhu A et al. ASCO GI 2018

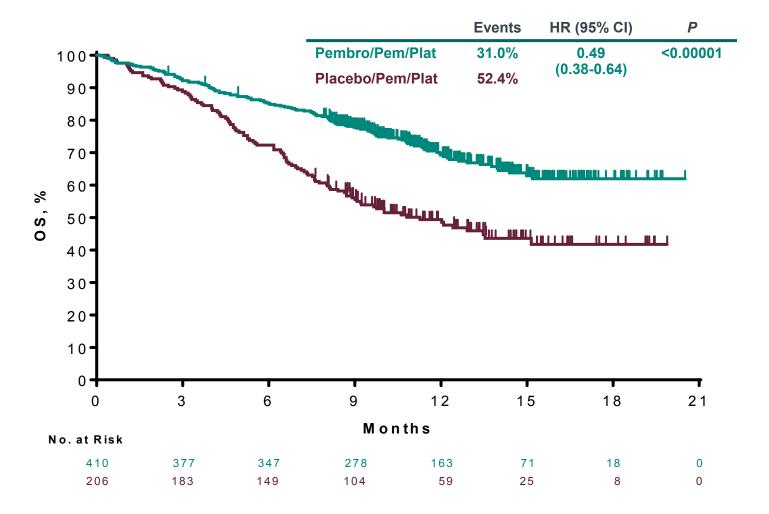
KEYTRUDA REDUCED THE RISK OF RECURRENCE WHEN ADMINISTERED AS ADJUVANT TREATMENT FOR PATIENTS WITH MELANOMA (KEYNOTE-054)



DATA
DEMONSTRATED
PROLONGED
RECURRENCE
FREE SURVIVAL
(RFS) BENEFIT



KEYNOTE-189: KEYTRUDA PLUS CHEMOTHERAPY FOR NON-SQUAMOUS, NON-SMALL CELL LUNG CANCER



KEYTRUDA REDUCED THE RISK OF DEATH BY HALF COMPARED TO CHEMOTHERAPY ALONE



EXPANDING OUR ONCOLOGY PORTFOLIO THROUGH GLOBAL STRATEGIC COLLABORATIONS



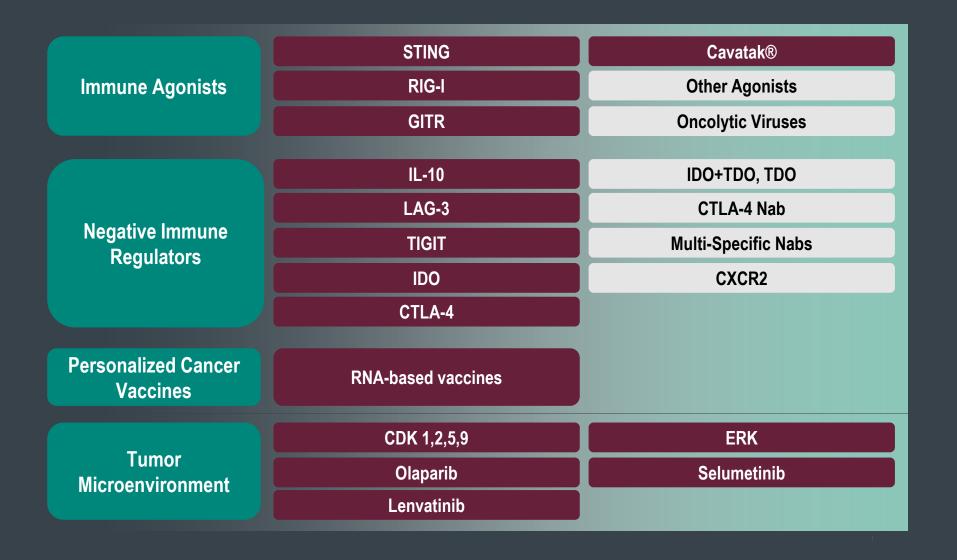
- World's first PARP inhibitor in breast cancer
- Significant <u>long-term opportunity</u> across multiple tumors and treatment settings
- Broad clinical development program



- Breakthrough Therapy Designation in combination with KEYTRUDA in RCC
- Approved as monotherapy in thyroid cancer and RCC; filed in HCC
- Combination studies in 11 indications across 6 tumor types



MERCK'S ONCOLOGY PIPELINE: 20+ NEW MOLECULES DESIGNED TO IMPROVE CANCER THERAPY



Preclinical Programs

Clinical Programs



RESEARCH AND DEVELOPMENT HIGHLIGHTS

ANNUAL SHAREHOLDERS MEETING MAY 22, 2018

ROGER M. PERLMUTTER



ANNUAL SHAREHOLDERS MEETING

KEN FRAZIER, CHAIRMAN AND CEO

For voting results, call 1-800-CALLMRK (1-800-225-5675) Or visit www.merck.com

