



Merck Pipeline

May 1, 2018

Lead-in Language

The chart below reflects the Company's research pipeline as of **May 1, 2018**. Candidates shown in Phase 3 include specific products and the date such candidate entered into Phase 3 development. Candidates shown in Phase 2 include the most advanced compound with a specific mechanism or, if listed compounds have the same mechanism, they are each currently intended for commercialization in a given therapeutic area. Small molecules and biologics are given MK-number designations and vaccine candidates are given V-number designations. Except as otherwise noted, candidates in Phase 1, additional indications in the same therapeutic area (other than with respect to *Oncology*) and additional claims, line extensions or formulations for in-line products are not shown.

Merck Pipeline as of May 1, 2018

Phase 2	Phase 2	Phase 3	Phase 3	Phase 3
Cancer Advanced solid tumors Cutaneous Squamous Cell Carcinoma Ovarian Prostate KEYTRUDA® MK-3475	HIV infection MK-8591	Bacterial infection relebactam+ imipenem/cilastatin MK-7655A	Cancer Thyroid selumetinib MK-5618 ¹	Heart failure vericiguat MK-1242 ¹
Diabetes mellitus MK-8521 ²	Schizophrenia MK-8189	Cancer Breast Colorectal Esophageal Gastric (EU) Head and neck (EU) Hepatocellular Nasopharyngeal Renal Small Cell Lung KEYTRUDA® MK-3475	Ebola vaccine V920	Herpes zoster inactivated VZV vaccine V212 ²
Cancer Biliary Tract Endometrial Non-Small Cell Lung LENVIMA® MK-7902 ¹		Cancer Pancreatic Prostate LYNPARZA® MK-7339 ¹	HABP/VABP ³ ZERBAXA® MK-7625A	HABP/VABP ³ SIVEXTRO® MK-1986
		Chronic cough MK-7264	Pneumoconjugate vaccine V114 ⁴	

► Moved forward since last pipeline update.

1. Being developed in a collaboration.
2. Development is currently on hold.
3. HABP - Hospital-acquired bacterial pneumonia/ VABP - ventilator-associated bacterial pneumonia
4. As of May 1 trial has yet to start.

Merck Pipeline as of May 1, 2018

New Molecular Entities Under Review	New Molecular Entities Under Review	New Molecular Entities Under Review	New Molecular Entities Approvals ¹	New Molecular Entities Approvals ¹	New Molecular Entities Approvals ¹
Pediatric hexavalent combination vaccine V419^{2,4} (US)	▶ HIV Doravirine MK-1439 (US, EU)	▶ HIV doravirine/ lamivudine/ tenofovir disoproxil fumarate MK-1439A (US, EU)	Diabetes mellitus LUSDUNA[®] MK-1293^{3,4} (US, EU)	Hepatitis C ZEPATIER[®] MK-5172A (EU)	▶ Diabetes mellitus STEGLATRO[™] MK-8835 (US, EU) ⁴
			<i>Clostridium difficile</i> infection recurrence ZINPLAVA[™] MK-6072 (US, EU)	Prevention of CMV Infection/Disease PREVYMIS[™] MK-8228 (US, EU)	▶ Diabetes mellitus STEGLUJAN[™] ertugliflozin + sitagliptin MK-8835A (US, EU) ⁴
				▶ Diabetes mellitus SUJANU[®] sitagliptin+ ipragliflozin MK-0431J (Japan) ⁴	▶ Diabetes mellitus SEGLUROMET[™] ertugliflozin + metformin MK-8835B (US, EU) ⁴

1. Approvals obtained within the last 24 months.
2. Sanofi and Merck are working to provide additional data requested by the FDA. V419 is being marketed as Vaxelis in the EU.
3. Received tentative approval from the FDA in July 2017. Final approval remains subject to automatic 30-month stay that began in September 2016.
4. Being developed in a collaboration

▶ Moved forward since last pipeline update.

Merck Pipeline as of May 1, 2018

Certain Supplemental Filings Under Review	Certain Supplemental Filings Under Review	Certain Supplemental Filings Under Review	Certain Supplemental Filings Under Review
<p>Relapsed or refractory Primary Mediastinal B-Cell Lymphoma</p> <p>KEYTRUDA® MK-3475 (US)</p>	<p>2nd line metastatic breast cancer</p> <p>▶ LYNPARZA® MK-7339¹ (EU)</p>	<p>Hepatocellular cancer</p> <p>LENVIMA® MK-7902¹ (US, EU)</p>	<p>2nd line head and neck cancer (KN040)</p> <p>▶ KEYTRUDA® MK-3475 (US, EU)</p>
<p>Broader approval for ovarian cancer</p> <p>LYNPARZA® MK-7339¹ (EU)</p>	<p>▶ 2nd line cervical cancer</p> <p>KEYTRUDA® MK-3475 (US)</p>	<p>Combination with carboplatin and pemetrexed in 1st Line non-squamous non-small cell lung cancer (KN189)</p> <p>▶ KEYTRUDA® MK-3475 (US, EU)</p>	

1. Being developed in a collaboration.

▶ Moved forward since last pipeline update.

Merck Pipeline as of May 1, 2018

Certain Supplemental Approvals ¹	Certain Supplemental Approvals ¹	Certain Supplemental Approvals ¹	Certain Supplemental Approvals ¹	Certain Supplemental Approvals ¹
Previously treated microsatellite instability-high cancer KEYTRUDA® MK-3475 (US)	2 nd line metastatic bladder cancer KEYTRUDA® MK-3475 (US, EU)	2 nd line non-small cell lung cancer KEYTRUDA® MK-3475 (EU)	2 nd line head and neck Cancer (KN055/KN012) KEYTRUDA® MK-3475 (US)	2-dose vaccination regimen for use in girls and boys 9-14 years of age GARDASIL®9 V503 (US)
1 st line cisplatin-ineligible bladder cancer KEYTRUDA® MK-3475 (US, EU)	Combination with carboplatin and pemetrexed in 1 st Line non-squamous non-small cell lung cancer (KN021G) KEYTRUDA® MK-3475 (US)	In Combination with other antiretroviral agents, for the treatment of HIV-1 infection in newborns weighing at least 2 kg ▶ ISENTRESS® MK-0518 (US, EU)	1 st line non-small cell lung cancer KEYTRUDA® MK-3475 (US, EU)	Relapsed or refractory classical Hodgkin lymphoma KEYTRUDA® MK-3475 (US, EU)
Once-daily dosing option in combination with other antiretroviral agents for HIV-1 infection ISENTRESS® MK-0518 (ISENTRESS HD®) (US, EU)	New tablet formulation and broader approval for ovarian cancer LYNPARZA® MK-7339² (US)	2 nd line metastatic breast cancer LYNPARZA® MK-7339² (US)	3 rd line gastric cancer KEYTRUDA® MK-3475 (US)	2 nd line renal cell cancer LENVIMA® MK-7902² (US, EU)

▶ Moved forward since last pipeline update.

1. Approvals obtained within the last 24 months.
2. Being developed in a collaboration.

Forward-Looking Statement

This presentation includes “forward-looking statements” within the meaning of the safe harbor provisions of the United States Private Securities Litigation Reform Act of 1995. These statements are based upon the current beliefs and expectations of Merck’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; Merck’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 Merck’s patents and other protections for innovative products; and the exposure to litigation, including patent litigation, and/or regulatory actions.

Merck 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 Merck’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).

No Duty to Update

The information contained in the presentation set forth below was current as of May 1, 2018. While this presentation remains on the company's website the company assumes no duty to update the information to reflect subsequent developments. Consequently, the company will not update the information contained in the presentation and investors should not rely upon the information as current or accurate after May 1, 2018.

The chart reflects the Merck research pipeline as of May 1, 2018.

Candidates shown in Phase III include specific products. Candidates shown in Phase II include the most advanced compound with a specific mechanism in a given therapeutic area. Phase I candidates are not shown.