



Merck Pipeline

Final – Feb. 24, 2017

Merck Pipeline as of February 24, 2017

Phase 2	Phase 2	Phase 3	Phase 3	Phase 3	Phase 3
Asthma MK-1029	Diabetes mellitus MK-8521	Alzheimer's disease verubecestat MK-8931	Cancer Bladder (EU) Breast Colorectal Esophageal Gastric Hepatocellular Head and neck (EU) Hodgkin lymphoma (EU) Multiple myeloma Renal KEYTRUDA® MK-3475	Diabetes mellitus ertugliflozin MK-8835 (US)¹ ertugliflozin+sitagliptin MK-8835A (US)¹ ertugliflozin+metformin MK-8835B (US)¹	HIV doravirine MK-1439
Cancer PMBCL² Advanced solid tumors Nasopharyngeal Ovarian Prostate KEYTRUDA® MK-3475	Hepatitis C grazoprevir/ruzasvir uprifosbuvir MK-3682B	Atherosclerosis anacetrapib MK-0859	CMV prophylaxis in transplant patients letermovir MK-8228	Ebola vaccine V920	HABP/VABP ³ bacterial pneumonia ZERBAXA™ MK-7625A
Cancer MK-2206	Pneumoconjugate vaccine V114	Bacterial infection relebactam+imipenem/ cilastatin MK-7655A	Diabetes mellitus sitagliptin+ipragliflozin MK-0431J¹ (Japan)	Herpes zoster inactivated VZV vaccine V212	HABP/VABP ³ bacterial pneumonia SIVEXTRO® MK-1986
Cough, including cough w/ IPF ⁴ MK-7264		Heart failure Vericiguat MK-1242¹			

► Moved forward since last pipeline update.

1. Being developed in a collaboration.
2. Primary Mediastinal Large B-Cell Lymphoma
3. HABP - Hospital-acquired bacterial pneumonia/ VABP - ventilator-associated bacterial pneumonia
4. Idiopathic Pulmonary Fibrosis

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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
MK-8237 Allergy, House Dust Mite (US) ²	▶ MK-8835 ertugliflozin Diabetes mellitus (EU) ⁴	BRIDION® MK-8616 Neuromuscular blockade reversal (US)	ZEPATIER® MK-5172A Hepatitis C (US/EU)	KEYTRUDA® MK-3475 Melanoma (EU)
MK-1293 Diabetes mellitus (US) ⁴	▶ MK-8835A ertugliflozin+sitagliptin Diabetes mellitus (EU) ⁴	MARIZEV® MK-3102 Diabetes mellitus (Japan)	GARDASIL®9 V503 HPV vaccine for cancer prevention (EU)	ZINPLAVA™ MK-6072 <i>Clostridium difficile</i> infection recurrence (US/EU)
V419 Pediatric hexavalent combination vaccine (US) ³	▶ MK-8835B ertugliflozin+metformin Diabetes mellitus (EU) ⁴	ZERBAXA® MK-7625A Complicated intra-abdominal infections (cIAI) & complicated urinary tract infections (cUTI) (EU)	▶ VAXELIS™ V419 Pediatric hexavalent combination vaccine (EU) ³	LUSDUNA® MK-1293 Diabetes mellitus (EU) ⁴

1. Approvals obtained within the last 24 months.
2. MK-8237 was being developed as part of a North America partnership with ALK-Abelló (ALK). Merck has given ALK six months' notice that it is terminating the agreement and therefore this compound will be returned to ALK.
3. V419, the investigational pediatric hexavalent combination vaccine, DTaP5-IPV-Hib-HepB, is being developed in partnership with Sanofi Pasteur and if approved in the US, will be commercialized through that partnership. On November 2, 2015, the FDA issued a CRL with respect to V419. The companies are reviewing the CRL and plan to have further discussions with the FDA.
4. Being developed in a collaboration

▶ Moved forward since last pipeline update.

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Certain Supplemental Filings Under Review	Certain Supplemental Filings Under Review	Certain Supplemental Approvals ¹	Certain Supplemental Approvals ¹
<p>▶ KEYTRUDA® MK-3475 Previously treated microsatellite instability-high cancer (US)</p>	<p>▶ KEYTRUDA® MK-3475 2nd Line metastatic bladder cancer (US)</p>	<p>EMEND® MK-0517 Pediatric indication for CINV² (US/EU)</p>	<p>EMEND® MK-0517 CINV² in adults receiving moderately emetogenic chemotherapy (MEC) (US)</p>
<p>▶ KEYTRUDA® MK-3475 Relapsed or refractory classical Hodgkin lymphoma (US)</p>	<p>▶ KEYTRUDA® MK-3475 Combination with chemotherapy in 1st Line non-squamous non-small cell lung cancer (US)</p>	<p>KEYTRUDA® MK-3475 2nd line non-small cell lung cancer (US/EU)</p>	<p>KEYTRUDA® MK-3475 3rd line head and neck cancer (US)</p>
<p>▶ KEYTRUDA® MK-3475 1st Line cisplatin-ineligible bladder cancer (US)</p>		<p>GARDASIL® 9 V503 Expanded age indication for males for prevention of anal cancers and genital warts caused by nine HPV types (US)</p>	<p>KEYTRUDA® MK-3475 1st line non-small cell lung cancer (US/EU)</p>
		<p>KEYTRUDA® MK-3475 1st line melanoma (US/EU)</p>	<p>GARDASIL® 9 V503 2-dose vaccination regimen for use in girls and boys 9-14 years of age (US)</p>

1. Approvals obtained within the last 24 months.
2. Chemotherapy-induced nausea and vomiting

▶ Moved forward since last pipeline update.

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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.

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The information contained in the presentation set forth below was current as of February 24, 2017. 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 February 24, 2017.

The chart reflects the Merck research pipeline as of February 24, 2017.

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.