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Merck Pipeline

Q1 2024 Reflecting Pipeline to Feb 21, 2025

Lead-in language

The chart below reflects the company's research pipeline as of **Feb 21, 2025**. 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 cancer, immunology and certain other indications) and additional claims, line extensions or formulations for in-line products are not shown.

1. Being developed in a collaboration.
2. Being developed in combination with Keytruda
3. Being developed as monotherapy and/or in combination with Keytruda

▶ Moved forward since last pipeline update.

Merck pipeline as of Feb 21, 2025

Phase 2	Phase 2	Phase 2	Phase 2	Phase 2
Cancer Biliary Bladder Cervical CRC Endometrial Esophageal Gastric HCC HNSCC Melanoma Ovarian Pancreas Prostate patritumab deruxtecan **MK-1022**[1]	Alzheimer's **MK-1167**	Cancer NSCLC quavonlimab **MK-1308**[2]	Cancer CRC quavonlimab + pembrolizumab **MK-1308A**	Cancer Biliary Bladder Breast Cervical CRC Endometrial Esophageal HCC HNSCC Melanoma Ovarian Pancreas ifinatamab deruxtecan **MK-2400**[1]
Cancer Biliary CRC Neoplasm Malignant Pancreatic sacituzumab tirumotecan **MK-2870**[1, 3]	Cancer Advanced Solid Tumors Prostate **KEYTRUDA®** **MK-3475**	Cancer Cutaneous Squamous Cell Heme pembrolizumab + hyaluronidase subcutaneous **MK-3475A**	PH-COPD **MK-5475**	Cancer Neoplasm Malignant boserolimab **MK-5890**[2]

Merck pipeline as of Feb 21, 2025

1. Being developed in a collaboration.
2. Being developed in combination with Keytruda
3. Being developed as monotherapy and/or in combination with Keytruda
4. FDA lifted clinical hold on 12/4/2024

▶ Moved forward since last pipeline update.

Phase 2	Phase 2	Phase 2	Phase 2	Phase 2
▶ Cancer Bladder Cervical Endometrial Ovarian Renal raludotatug deruxtecan **MK-5909**[1]	MASH efinopegdutide **MK-6024**	Lupus Vitiligo **MK-6194**	▶ Cancer Breast Endometrial Esophageal HCC **WELIREG™** **MK-6482**[3]	Systemic Sclerosis tulisokibart **MK-7240**
Cancer Advanced solid tumors **LYNPARZA®** **MK-7339**[1,3]	Pulmonary Hypertension due to Left Heart Disease **WINREVAIR™** **MK-7962**	HIV-1 PrEP **MK-8527**	HIV-1 Infection islatravir+MK-8507 **MK-8591B**[4]	Dengue Fever Virus Vaccine **V181**
Cancer Bladder RCC **V940**[1, 2]				

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Merck pipeline as of Feb 21, 2025

1. Being developed in a collaboration.
2. Being developed in combination with Keytruda
3. Being developed as monotherapy and/or in combination with Keytruda
4. On partial clinical hold for higher doses of islatravir than those used in current clinical trials
5. Available in the U.S. under Emergency Use Authorization
6. Program is in a Phase 2/3 study

▶ Moved forward since last pipeline update.

Phase 3	Phase 3	Phase 3	Phase 3	Phase 3
Hypercholesterolemia enlicitide decanoate **MK-0616**	Cancer NSCLC patritumab deruxtecan **MK-1022**[1] **(EU)**	Cancer Heme nemtabrutinib **MK-1026**	Cancer NSCLC **MK-1084**[2]	Cancer RCC quavonlimab + pembrolizumab **MK-1308A**
Cancer Heme zilovertamab vedotin **MK-2140**	Cancer SCLC ifinatamab deruxtecan **MK-2400**[1]	Cancer Breast Cervical Endometrial Gastric NSCLC sacituzumab tirumotecan **MK-2870**[1,3]	Diabetic Macular Edema **MK-3000**[6]	Cancer Hepatocellular (EU) Ovarian SCLC **KEYTRUDA®** **MK-3475**
Cancer NSCLC pembrolizumab + hyaluronidase subcutaneous **MK-3475A**	Cancer Myeloproliferative Disorders bomedemstat **MK-3543**	Anti-Viral COVID-19 **LAGEVRIO®** **MK-4482**[1,5] **(US)**	Cancer Prostate opevesostat **MK-5684**	Crohn's Disease Ulcerative Colitis tulisokibart **MK-7240**
Cancer NSCLC SCLC **LYNPARZA®** **MK-7339**[1,2]	Cancer Esophageal **LENVIMA®** **MK-7902**[1,2]	HIV-1 Infection doravirine + islatravir **MK-8591A**[4]	HIV-1 Infection islatravir+lenacapavir **MK-8591D**[1,4]	Cancer Melanoma NSCLC **V940**[1,2]

1. Being developed in a collaboration
2. In June 2024, FDA issued a CRL for the BLA for patritumab deruxtecan. Merck is working with Daiichi Sankyo to address FDA feedback.

▶ Moved forward since last pipeline update.

Merck pipeline as of Feb 21, 2025

New Molecular Entities Under Review	**New Molecular Entities** Under Review	**New Molecular Entities** Under Review
Previously Treated Locally Advanced or Metastatic EGFR-Mutated NSCLC (HERTHENA-Lung01) patritumab deruxtecan **MK-1022** [1,2] **(US)**	▶ Respiratory Syncytial Virus clesrovimab **MK-1654 (US, EU)**	von Hippel-Lindau (VHL) Disease (LITESPARK-004) Previously Treated Advanced Renal Cell Carcinoma (LITESPARK-005) **WELIREG® MK-6482 (JPN)**
▶ Pulmonary Arterial Hypertension (STELLAR) **WINREVAIR™ MK-7962 (JPN)**	Pneumococcal Vaccine Adult **CAPVAXIVE™ V116 (EU, JPN)**	

Certain Supplemental Filings Under Review
1L Unresectable Advanced or Metastatic Malignant Pleural Mesothelioma (KN483) **KEYTRUDA® MK-3475 (EU, JPN)**
Advanced, Unresectable, or Metastatic Pheochromocytoma and Paraganglioma (PPGL) (LITESPARK-015) **WELIREG® MK-6482 (US)**

1. Approvals obtained within the last 3 months.

Moved forward since last pipeline update.

Merck pipeline as of Feb 21, 2025

New Molecular Entities Approvals[1]	Certain Supplemental Approvals[1]	Certain Supplemental Approvals[1]	Certain Supplemental Approvals[1]
von Hippel-Lindau (VHL) Disease-Associated Tumors (LITESPARK-004) **WELIREG® MK-6482 (EU, CHN)**	High-Risk Locally Advanced Cervical Cancer (KNA18) **KEYTRUDA® MK-3475 (JPN, CHN)**	Primary Advanced or Recurrent Endometrial Carcinoma (KN868) **KEYTRUDA® MK-3475 (JPN)**	Resectable Stage II, IIIA or IIIB NSCLC (KN671) **KEYTRUDA® MK-3475 (CHN)**
HABP/VABP cUTI/cIAI **RECARBRIO™ relebactam+ imipenem/cilastatin MK-7655A (CHN)**	1L Locally Advanced or Metastatic Urothelial Cancer (KNA39) **KEYTRUDA® MK-3475 (CHN)**	Previously Treated Advanced Renal Cell Carcinoma (LITESPARK-005) **WELIREG® MK-6482 (EU)**	gBRCA-Mutated HER2 Negative Adjuvant Breast Cancer (OlympiA) **LYNPARZA® MK-7339 (CHN)**
	HPV Vaccine 2-Dose Girls **GARDASIL® V501 (CHN)**	HPV Vaccine HPV 9-26 yo Males **GARDASIL® V501 (CHN)**	

Forward-looking statement

This presentation of Merck & Co., Inc., Rahway, 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 candidates that the candidates 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 Annual Report on Form 10-K for the year ended December 31, 2024 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 Feb 21, 2025. 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 Feb 21, 2025.

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Candidates shown in Phase 3 include specific products. Candidates shown in Phase 2 include the most advanced compound with a specific mechanism in a given therapeutic area. Phase 1 candidates are not shown.