



EMD Serono is the biopharmaceutical business of Merck KGaA, Darmstadt, Germany



We are EMD Serono, the biopharmaceutical business of Merck KGaA, Darmstadt, Germany, in the U.S. and Canada

Making a Bold Difference

We are committed to transforming lives by discovering, researching and delivering meaningful therapies for people with difficult-to-treat diseases.

Our Curiosity Drives Innovation

Our approximately 1,500 employees are empowered by science and committed to providing valuable medicines, drug-delivery devices and support services.

Imagining the Future

Building on a proven legacy and deep expertise in neurology and immunology, oncology, fertility and endocrinology, we have a strong pipeline with more than 20 projects in development.



Rooted in HISTORY

Can you imagine a place where curiosity, passion and collaboration can change patients' lives? **We can.**

With a history of vibrant science and technology that advanced the treatment of illnesses like multiple sclerosis (MS), infertility and cancer, we're bold in our approach and dedicated to improving lives.

We have been driving human progress for more than **350** years through our global roots with Merck KGaA, Darmstadt, Germany, and more than 40 years in the U.S. at our corporate headquarters in Rockland, MA and the Research & Development (R&D) hub in Billerica, MA.





BOLD BOLD DIFFERENCE FORDATIENTS

Committed to Providing Valuable Solutions in Oncology, Neurology & Immunology, Fertility and Endocrinology



























Understanding and Responding to Patient Needs

Committed to transforming lives by providing patient education and assistance programs, tools and services

MSLifeLines*

• For more than 15 years, MS LifeLines® has provided valuable education, information about our treatment, and financial assistance programs for eligible people with MS to address concerns about their treatment, adherence and access

Available toll free at 1-877-447-3243 or visit www.mslifelines.com



• Comprehensive program that offers patients information on infertility and options; resources; as well as access and reimbursement support

Available toll free at 1-866-538-7879 or visit www.fertilitylifelines.com



 Access and reimbursement support services to help patients gain appropriate access to our oncology drug in the United States

Available toll free at 1-844-8COVER1



 A dedicated reimbursement and product support service for patients with HIV-associated wasting

Available toll free at 1-877-714-AXIS (2947)





THEFUTURE



R&D Strategy

We are a science-driven organization, focused on delivering a transformative pipeline that aims to make a real difference for patients by helping to create, improve and prolong lives.

Therapeutic **E97A** FOCUS

Oncology, Immuno-Oncology, and Immunology

Therapeutic **Modality** Focus

Antibodies, Small molecules, antibody drug conjugates

strategy

Deliver future growth through both a focused pipeline model and support for our

existing franchises pevelopment FOCUS

Different development approaches by asset category* and **Program Priority**

*NME/LCM

PLOGLAM FOCUS

Adequate resourcing and investments leveraged by **Program Priority**



R&D Requires Collaboration

Globally Integrated R&D

- Activities structured around highly-connected hubs as centers of excellence.
- Strong network of alliances with local biotech companies and academic groups.
- Approximately 3,000 professionals worldwide.

Partnerships and Agreements







AVILLION





Q Palantir







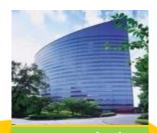
550+ scientists and clinical development professionals



1,300+ scientists and clinical development professionals



80 professionals across R&D



Tokyo hub

80 professionals across R&D

Our Curiosity: Changing Lives

A Glimpse at Our Pipeline

More than 20 projects in clinical development





Investigational oral MET inhibitor that is designed to inhibit the oncogenic MET receptor signaling caused by MET (gene) alterations, including both MET exon 14 skipping mutations and MET amplifications, or MET protein overexpression. Tepotinib is currently being investigated in NSCLC, with the potential of exploring other tumor indications.

Evobrutinib

Investigational oral inhibitor of Bruton tyrosine kinase (BTK) being studied as a treatment for MS.

bintrafusp alfa (M7824)

Investigational bifunctional immunotherapy that is designed to combine a TGF-B trap with the anti-PD-L1 mechanism in one fusion protein. Bintrafusp alfa (M7824) is designed to combine co-localized blocking of the two immunosuppressive pathways targeting both pathways aims to control tumor growth by potentially restoring and enhancing anti-tumor responses. Bintrafusp alfa (M7824) is currently in Phase I studies for solid tumors, as well as a randomized Phase II trial to explore NSCLC.

demuleva

A human anti-programmed death ligand-1 (PD-L1) antibody. The clinical development program for avelumab, known as JAVELIN, involves at least 30 clinical programs and more than 9,000 patients evaluated across more than 15 different tumor types. including breast. gastric/gastro-esophageal iunction, and head and neck cancers, Merkel cell carcinoma, non-small cell lung cancer, and urothelial carcinoma.

DNA DaMage Response (DDR)

An oncology portfolio that includes inhibitors for enzymes of major DDR pathways.



Merck KGaA, Darmstadt, Germany Pipeline

April 30, 2020

Phase I

berzosertib (M6620) ATR inhibitor Solid tumors

peposertib (M3814) DNA-PK inhibitor Solid tumors¹

M1774 ATR inhibitor Solid tumors

M3258 LMP7 inhibitor Multiple myeloma

M4344 ATR inhibitor Solid tumors

M8891 MetAP2 inhibitor Solid tumors bintrafusp alfa TGFbeta trap/anti-PD-L1 Solid tumors

M9241 (NHS-IL12) Cancer immunotherapy Solid tumors¹

M5049 TLR7/8 antagonist Immunology

M6495 anti-ADAMTS-5 nanobody Osteoarthritis

M5717 PeEF2 inhibitor

Oncology

Immuno-Oncology

Immunology

Neurology

Global Health

Phase II

peposertib (M3814) DNA-PK inhibitor

Rectal cancer

tepotinib
MET kinase inhibitor
Non-small cell lung cancer

abituzumab pan-αv integrin inhibiting mAb Colorectal cancer 1L

avelumab anti-PD-L1 mAb Merkel cell cancer 1L

avelumab anti-PD-L1 mAb Solid tumors²

avelumab anti-PD-L1 mAb Non-small cell lung cancer²

avelumab anti-PD-L1 mAb Urothelial cancer² bintrafusp alfa
TGFbeta trap/anti-PD-L1
Non-small cell lung cancer 1L

bintrafusp alfa

TGFbeta trap/anti-PD-L1 Non-small cell lung cancer 1L/2L

bintrafusp alfa
TGFbeta trap/anti-PD-L1
Locally advanced non-small cell lung cancer

bintrafusp alfa TGFbeta trap/anti-PD-L1 Biliary tract cancer 1L

bintrafusp alfa TGFbeta trap/anti-PD-L1 Biliary tract cancer 2L

bintrafusp alfa
TGFbeta trap/anti-PD-L1
Cervical cancer 2

atacicept

sprifermin

anti-BlyS/APRIL fusion protein Systemic lupus erythematosus

atacicept anti-BlyS/APRIL fusion protein IgA nephropathy

Osteoarthritis
M1095 (ALX-0761)³
anti-IL-17 A/F nanobody
Psoriasis

fibroblast growth factor 18

Phase III

avelumab
anti-PD-L1 mAb
Non-small cell lung cancer 1L

evobrutinib BTK inhibitor Multiple sclerosis

Registration

tepotinib
MET kinase inhibitor
Non-small cell lung cancer, METex14 skipping*

avelumab anti-PD-L1 mAb Urothelial cancer 1L-M⁵



¹ Includes studies in combination with avelumab. ² Avelumab combination studies with talazoparib, axitinib, ALK inhibitors, cetuximab, or chemotherapy. ³ As announced on March 30 2017, in an agreement with Avillion, anti-IL-17 A/F nanobody will be developed by Avillion for plaque psoriasis and commercialized by Merck. ⁴ As announced on March 25 2020, tepotinib was approved in Japan for the treatment of patients with non-small cell lung cancer harboring METex14 skipping. ³ As announced on April 09 2020, a supplemental Biologics License Application (sBLA) has been submitted to the US Food and Drug Administration (FDA) for avelumab for first-line maintenance treatment of patients with locally advanced or metastatic urothelial carcinoma.





DIFFERENCE MAKERS IN SCIENCE AND COMMUNITY

At EMD Serono, supporting scientific research, medical education and the broader local community is an organizational priority.

We provide nearly **\$5 Million** per year in science and medical education grants, fellowships, and patient education programs/initiatives.

In addition, we believe in giving back to the communities in which we work and live, whether supporting STEM education in Boston or donating thousands of volunteer hours annually.













Our U.S. Presence

Today, EMD Serono has approximately **1,500 employees across three locations in the U.S. including 300 field employees around the U.S.** in clinical trial management, sales and key commercial operations.



Government Affairs

Health Policy and U.S. Regulatory Strategy



Research & Development Institute

Global R&D Hub, including discovery, development and clinical operations



U.S. Headquarters

Fully-integrated Commercial Operations



EMD SEROND AT A GLANCE

Our Curiosity Drives Innovation

Our approximately 1,500 U.S. employees are empowered by science and committed to providing valuable medicines, drugdelivery devices and support services. We work to truly understand and respond to the therapeutic and support needs of individual patients through industry-leading patient education and assistance programs, tools, and services.

Priving human progress for more than **350 Years** at our global headquarters in Germany, and 40+ years in the U.S. at our corporate headquarters in Rockland, MA and the Research and Development (R&D) hub in Billerica, MA

- 8 drug products
- Therapeutic Areas of Focus: Neurology
 & Immunology, Oncology, Fertility,
 Endocrinology
- ~2M people helped through our support services
- ~\$5M/year donated to community organizations and non-profits
- ∼1,500 employees

















Please see MAVENCLAD full Prescribing Information, including **boxed WARNING**.



Merck kgan, barmstadt, germany

EMD Serono is part of a larger global company known as Merck KGaA, Darmstadt, Germany, which is comprised of three businesses

\$18.3B (2019) • 50,000 Employees from 139 nations work in 66 countries • 350+ Year History

The three global businesses focused on healthcare, life science and performance materials are known as the following in the U.S.:









\$2.6B

R&D investment (2019)

... integrates vibrant science, valuable products and devices and industry-leading patient education and assistance programs, tools and services.

... offers live science tools and performance products and provides innovative solutions for scientists and engineers. ... specializes in providing new and innovative technologies and high-tech materials for a variety of industries, including electronics and semiconductors.

20+Projects in clinical

development

*The biopharmaceutical business of Merck KGaA, Darmstadt, Germany operates as EMD Serono in the United States and Canada







MILLIPORE SIGMA

MilliporeSigma: Life Science Business

Research solutions

process solutions

applied solutions

Most **complete portfolio** of solutions that enable scientific discovery

Products that meet the **highest quality** and **purity standards** with extensive documentation and services to ensure regulatory compliance

Products and workflow solutions that streamline processes, reduce costs, and deliver consistent, reliable results



EMD performance materials

Performance Materials

Provides new technologies and high-tech materials for a variety of industries: consumer electronics, semiconductors, lighting, coatings, printing technology, plastics, cosmetics

>500 Employees in 8 Sites

Charlotte, NC (PM-I)
Quality Control Labs

Haverhill, MA (PM-I)
Manufacturing and R&D

San Diego, CA (PM-I)
Production and R&D

Philadelphia, PA (HQ and PM-P)
PM US Headquarters

Branchburg, NJ (PM-I)
Manufacturing and R&D

Martin, SC (PM-I)
Production

Savannah, GA (PM-P) Manufacturing

Billerica, MA (PM-A/D) Scouting

pisplay Materials

Liquid crystals and photoresists for LCD televisions, smartphones, tablet computers, and other displays

advanced rechnologies

Materials for organic (OLED) and inorganic (LED) light emitting diodes and functional material for electronics and energy solutions

integrated circuit Materials

Dielectrics, colloidal silica, lithography, photoresists, yield enhancers, edge bead removers and other ancillary products for the production of integrated circuits

pigments & functional Materials

Effect and functional pigments for coatings, plastics, foods or cosmetics as well as functional materials for specialist applications



