

Maurice Hilleman, 1919-2005, was a 1941 MSU graduate who saved the lives of millions by developing a wide array of vaccines.

A Miles City native, Hilleman graduated atop his class at what was then Montana State College with dual degrees in chemistry and microbiology. His name often accompanies those of Jonas Salk and Louis Pasteur as pioneers who fundamentally changed the nature of human health. The abstract on a National Institutes of Health obituary for Hilleman describes him this way: "Microbe hunter, pioneering virologist, and the world's leading vaccinologist."

Among Hilleman's scientific achievements:

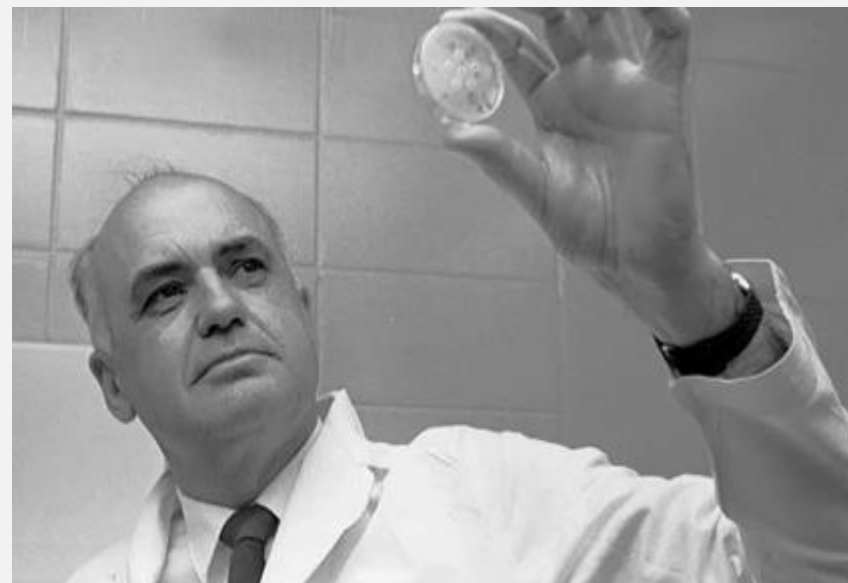
- A hepatitis B vaccine that was the first vaccine to prevent a cancer in humans (liver cancer, or hepatoma).
- A measles-mumps-and-rubella combination vaccine that marked the first time vaccines for different viruses were successfully combined in a single shot.
- Vaccines for meningitis and pneumonia.
- A mumps vaccine that came after Hilleman isolated the virus by swabbing the back of his daughter Jeryl Lynn's throat when she was stricken with the disease (50 years later it is still the basis for most mumps vaccines).
- A more complete understanding of the ways different strains of the flu change slightly from year to year, which led to the practice of developing an annual seasonal flu vaccine.
- The first successful prediction of a coming influenza pandemic and development of a vaccine that thwarted it, possibly saving close to a million people in 1957.

Indeed, Hilleman was responsible for developing 8 out of the 14 recommended vaccinations today.



2nd Maurice Hilleman Vaccine Symposium

Presented by the MSU Department of Microbiology & Immunology



2018

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MSU Office of the President



2nd Maurice Hilleman Vaccine Symposium

Symposium | Procrastinator Theater | Strand Union Building

9:00 a.m. Welcome: Dr. Mark Jutila, MBI Chair

Introduction of Hilleman Scholars

9:15 a.m. “Spillover: Zoonotic Disease and Pandemics”

David Quammen

Writer & Rhodes Scholar

9:45 a.m. “The Life of Maurice Hilleman—a Historical Perspective”

Dr. Michael Reidy

Historian and MSU Professor of History

10:30 a.m. Coffee Break

10:45 a.m. “What’s in the Vaccine Pipeline at Merck?”

Dr. Barbara Kuter

Executive Director of Pediatric Medical Affairs

Merck & Co., Inc.

11:30 a.m. Movie Presentation: “Hilleman: A Perilous Quest to Save the World’s Children”

Produced by Medical History Pictures and sponsored by the Vaccine Education Center at the Children’s Hospital of Philadelphia as an original component of the Vaccine Makers Project (VMP).

12:30 p.m. Break for Lunch

1:30 p.m. KEYNOTE PRESENTATION:

“Novel Vaccine Strategies to Combat HIV”

Dr. Louis Picker

Professor and Associate Director

Vaccine and Gene Therapy Institute

Senior Scientist, Division of Pathology & Immunology

Oregon National Primate Research Center

2:30 p.m. MSU Microbiology & Immunology Highlights

Dr. Diane Bimczok: “Communication across barriers – how the immune system of the stomach senses *H. pylori* bacteria.”

Dr. Doug Kominsky: “Modulation of *Salmonella* Virulence by Purine Metabolism.”

Dr. Matthew Taylor: “Effect of Type 1 interferon signaling on *alphaherpesvirus* coinfection and neuronal spread.”

3:15 p.m. Coffee Break

3:30 p.m. Dr. Raina Plowright: “Emergence, resurgence, and spillover of infectious diseases from wild animals.”

Dr. Eric Boyd: “Thermophiles: Windows into life’s origins on Earth and elsewhere.”

Fermin Guerra: “*Staphylococcus aureus* leukocidins as potential vaccine targets.”

4:15 p.m. Closing Words

4:30-6:00 p.m. Student Poster Session & Reception in Ballroom B

Please join us for appetizers and cash bar and see for yourself what our students are currently researching.