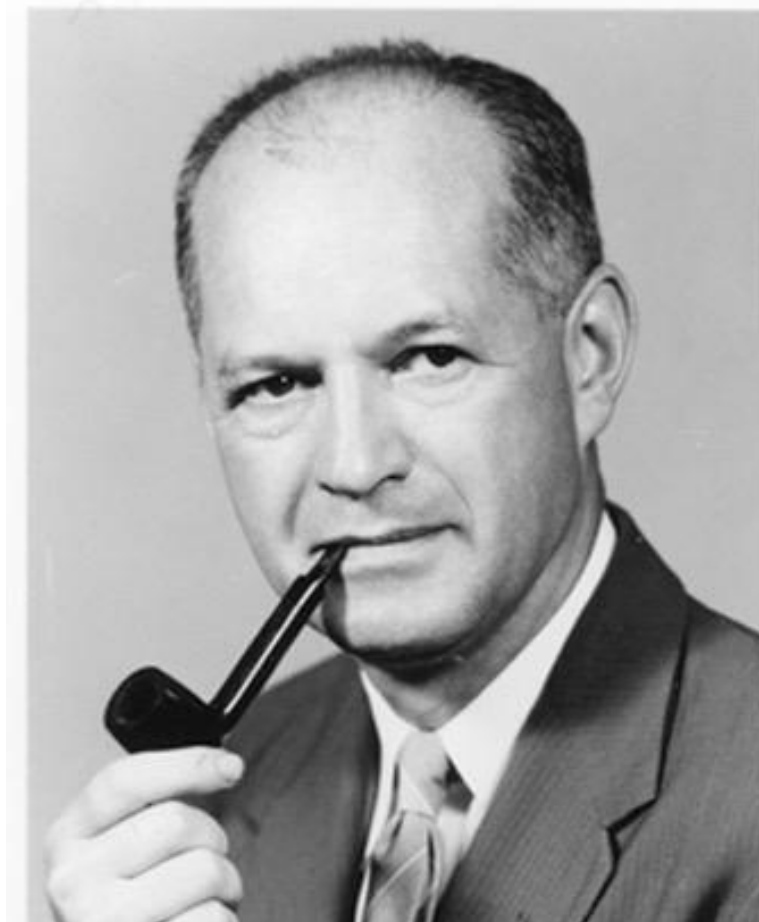


PIONEERS IN GENOMIC BIOLOGY LECTURE SERIES

DAVID GOTTLIEB

MEMORIAL LECTURE



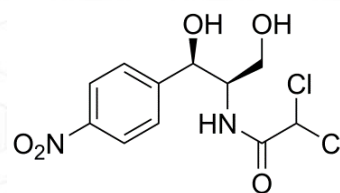


David Gottlieb

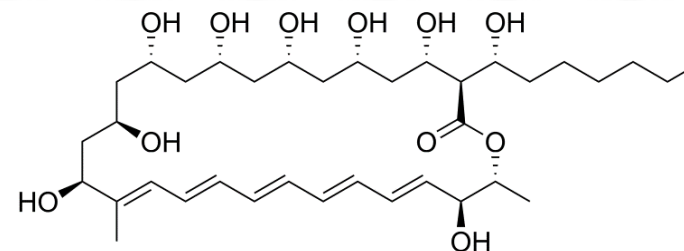
Professor of Plant Pathology

1911–1982

B.S. Chemistry and Botany, City College of New York
M.S. Chemistry and Botany, Iowa State University
Ph.D. Plant Pathology, University of Minnesota



chloramphenicol



filipin

UIUC Archives

David Gottlieb, a pioneer in fungal biology and antibiotic mechanisms, joined the University of Illinois Urbana-Champaign in 1946 as part of the Department of Horticulture and helped establish the Department of Plant Pathology in 1955. He served as a professor at Illinois until his death in 1982.

With research focused on plant-pathogenic fungi, his co-discovery of the antibiotic chloramphenicol is especially relevant for the work of the Mining for anti-infectious Molecules from Genomes theme as this compound is a mainstay in biotechnology, serving as an antibiotic marker for plasmids.

Gottlieb's impact was significant; his antibiotic research resulted in large-scale production and clinical use by the late 1940s, he served as a leading contributor to the taxonomy of actinomycetes, the "triplicate control" rigor he espoused towards experimental design was well-known, and the consideration he held for his students was evident.



DAVID GOTTLIEB TIMELINE

1925: David Gottlieb begins high school, develops love for plant pathology

1920-1930

1940's

1940's: Interest in antibiotics and actinomycetes leads to discoveries/co-discoveries including chloramphenicol, filipin, levomycin, and tetrin

1942: PhD in Plant Pathology from University of Minnesota



1942

1946

1946: Joins University of Illinois Department of Horticulture



1955

1955: Founding member of Illinois Department of Plant Pathology

1956-57

1956-57: Serves as advisor on plant pathology research to Chilean government

1961

1961: Publishes "An Evaluation of Criteria and Procedures Used in the Description and Characterization of the Streptomycetes: A Cooperative Study"

1974

1974: Publishes "Germination of fungal spores: Biochemical processes during spore germination, Carbohydrate metabolism"



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"I have accumulated a number of honors from my professional colleagues that have brought me a pleasurable sense of being valued. Although I enjoyed receiving these honors, I have often wondered why I have not been more moved by them. Perhaps it is because I see life as imperfect and destined to remain so."



David Gottlieb

”



Lecture made possible by generous donation by Dr. Amy Zahl Gottlieb

Administered by the Carver Biotechnology Center and the MMG theme

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Julian Davies
Richard Hutchinson
Sir David Hopwood
Chris Walsh
Craig Venter
Carl Schaffer
Zhi-Yuan Chen
Richard Baltz
Chaitan Khosla
Mohamed Marahiel

Kim Lewis
Christian Hertweck
Rolf Mueller
Mervyn Bibb
Joan Bennett
Paul Jensen
Sarah O'Connor
David Craik
Joern Pie
Gerard Wright

