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Leveraging GIDEON for Research in Rodent-Borne Zoonotic Diseases

> GIDEON was excellent for our purposes. Because it was a review, we were not allowed to include a methods section, so we needed a one-stop source to get case and host data.
>
> **Dr. Felicia Keesing**
> David & Rosalie Rose Distinguished Professor of the Sciences, Mathematics, & Computing
> Bard College

Research spotlight

Felicia Keesing, Richard S. Ostfeld

Emerging patterns in rodent-borne zoonotic diseases

Science. 385,1305-1310(2024). DOI:10.1126/science.adq7993

Research objective

- Dr. Felicia Keesing and Dr. Ostfeld collaborated on a new research paper on emerging patterns in rodent-borne zoonotic diseases.
- Hundreds of species of rodents are confirmed zoonotic hosts. However, only 12% of species are known to be sources of pathogens that also infect people.
- This population of rodents tends to share a suite of predictable traits.
- In their research paper, Dr. Felicia Keesing and Dr. Ostfeld characterize those traits and explore them in the context of three emerging or reemerging rodent-borne zoonotic diseases in people.

About the distinguished researchers

Dr. Felicia Keesing

Dr. Felicia Keesing, the David & Rosalie Rose Distinguished Professor of Sciences, Mathematics, and Computing at Bard College, studies the ecology of infectious diseases, focusing on how ecological communities respond to biodiversity changes. She received the U.S. Presidential Early Career Award for Scientists and Engineers in 2000.

Dr. Richard Ostfeld

Dr. Richard Ostfeld, a distinguished senior scientist at the Cary Institute of Ecosystem Studies, specializes in the ecology of infectious diseases, particularly Lyme disease and other tick-borne illnesses.

His research predicts risks by analyzing factors like tick populations, infection rates, and the effects of land use on species diversity and disease dynamics.

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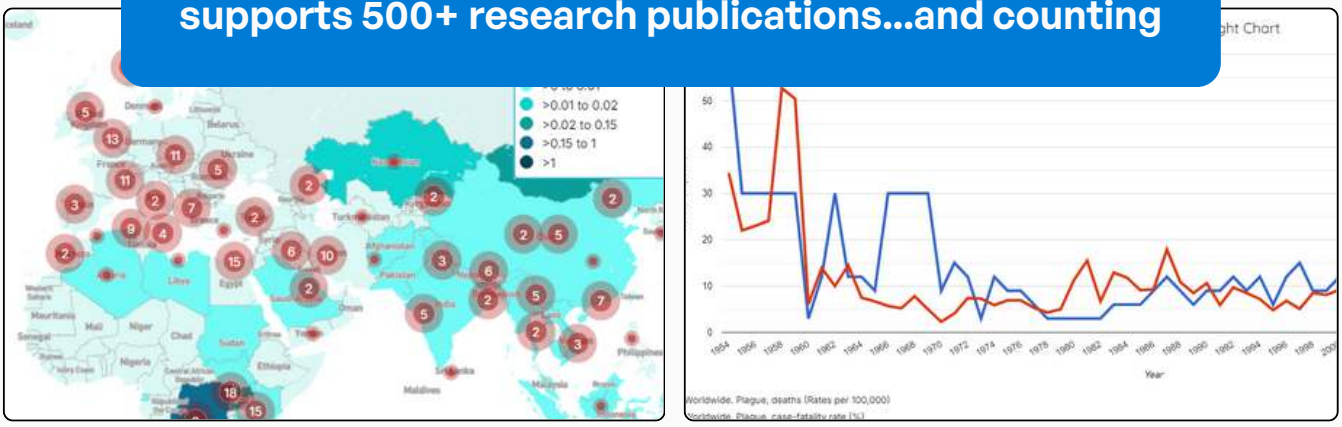
GIDEON'S comprehensive epidemiology data supports 500+ research publications...and counting



The GIDEON Advantage

340,000+ references for literature and systematic reviews

Utilize a wealth of quality, hand-picked citations to support literature reviews on subjects related to infectious diseases.

In-depth analysis of global disease spread

GIDEON's database contains 120,000+ prevalence and seroprevalence surveys, 26,000 country-specific notes and provides information on over **30,000 historical outbreaks and cross-border events.**

REST API with R wrapper for streamlined data modeling

GIDEON API is designed to help researchers retrieve data programmatically, especially useful when working with data modeling. Epidemiologists can easily query the database **using a familiar R environment.**

The latest data, updated daily

GIDEON's scientific team updates the platform daily, providing the latest insights on disease outbreaks, pathogens, vaccines, and drugs in an easily accessible format.

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