

The background of the entire slide is a detailed, blue-toned illustration of various microorganisms. It includes several large, elongated, rod-shaped bacteria with fine, hair-like flagella extending from their ends. There are also numerous smaller, spherical bacteria, some of which appear to have a textured or granular surface. The microbes are scattered across the frame, creating a sense of a microscopic environment.

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In animal agriculture, antimicrobial drugs are used to protect animal health and welfare and food safety.

But many microbes have developed resistance to these drugs, leaving animals and humans vulnerable to infections.

Researchers at land-grant universities have shed light on the characteristics and spread of resistant microbes; created tools for faster detection of resistance; developed strategies that reduce antimicrobial use; and raised awareness among scientists, farmers, veterinarians, communities, and policymakers.