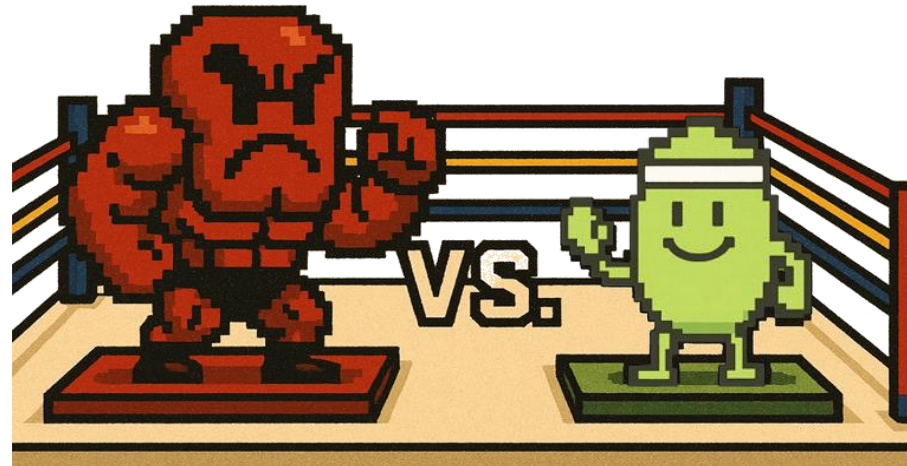


Anime Meets Antibiotics: A Visual Guide to Bacterial Resistance

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Antibiotic Resistance: Urgent Global Public Health Threat



Infection



Antibiotic Resistance

Up to 10 million deaths could be caused by Antibiotic Resistance **per year** by 2050.
—United Nations



Disease control



Antibiotic-Resistant Bacteria (Superbug)



Food Chain

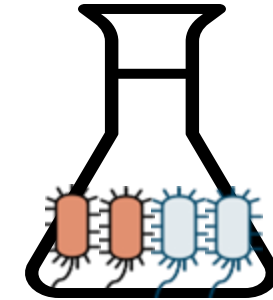
Superbug in Soil: Proliferation & Competition



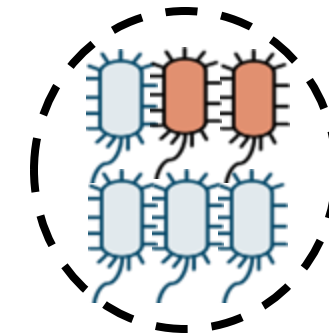
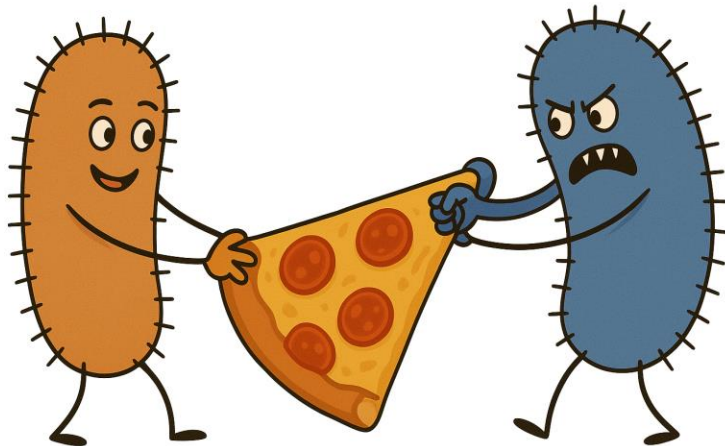
Competition







Complexity in soil

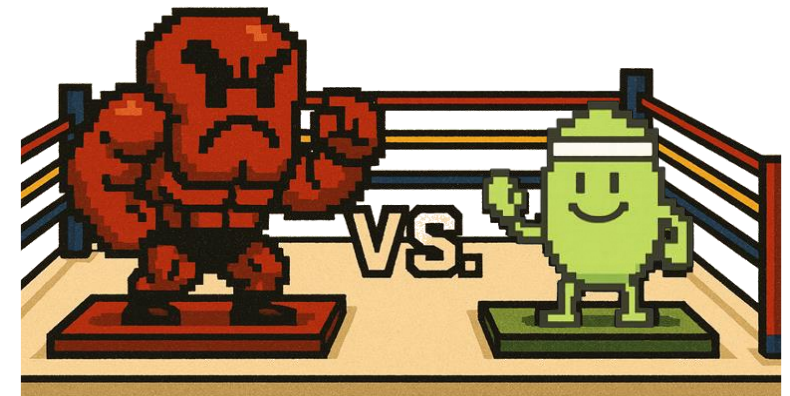
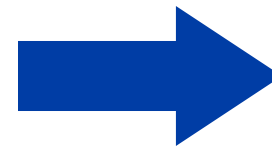
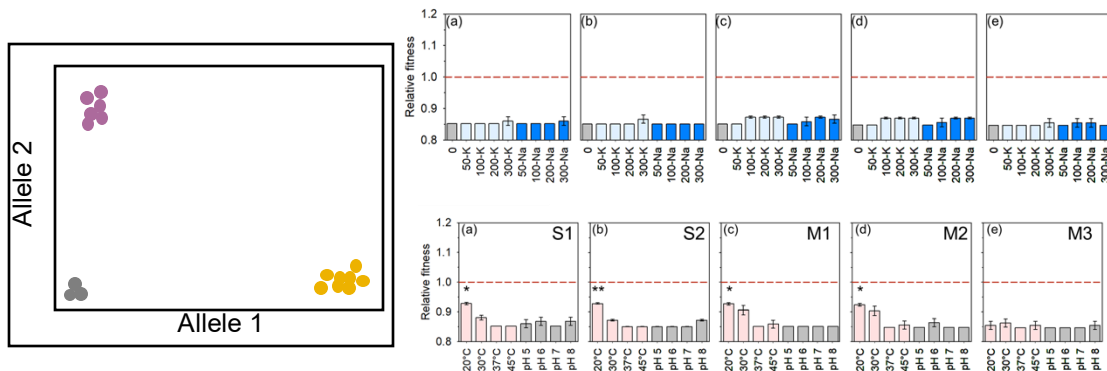


DNA fluorescence = Ratio



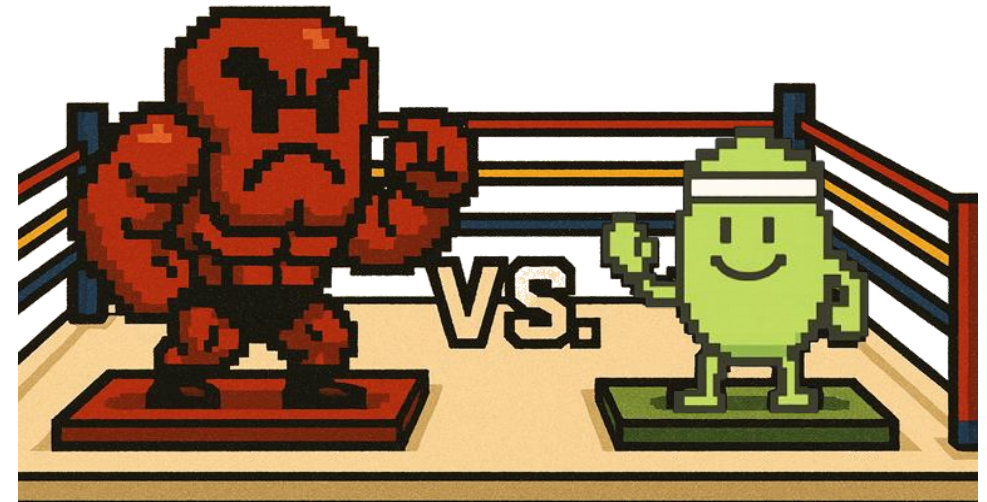
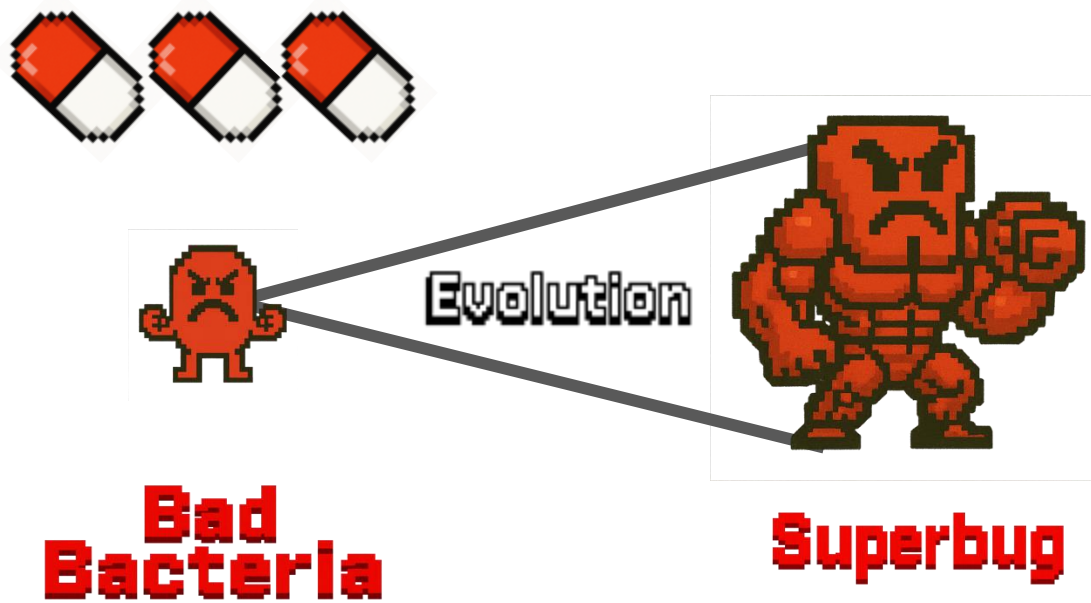
Science vs. Story: Why Is This Hard to Explain?

-  The battle is microscopic
-  Most people don't understand what resistance looks like
-  The data is complex.
-  I needed a new way to tell the story.



Make the invisible visible

Recasting Microbes as Characters



Superbug

Good Bacteria

Anime made by Runway ML:

- Good bacteria won
- Superbug won

Prompt Template for Genmo / RunwayML

"Create a 5-10 second pixel-art animation that looks like a retro fighting game. The scene shows a good bacteria character (healer-type, blue aura, round and cheerful) battling a superbug character (villainous, armored, red glow). The background is a stylized soil battlefield with cracks and nutrient icons. The good bacteria tries to cast a healing move, but the superbug charges and knocks it down. End with a 'Game Over' screen in 8-bit font. Keep the animation in retro pixel style, 16-bit or less, with side-scrolling game camera and dramatic sound effects."

Explore the Full Project

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Anime Meets Antibiotics: A Visual Guide to Bacterial Resistance

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OSF Storage

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Bad bacteria won.mp4	0 Downloads	4.1 MB	2025-05-08 01:31 PM	⋮
Good bacteria win.mp4	0 Downloads	1.6 MB	2025-05-08 01:31 PM	⋮
README.txt	0 Downloads	1.2 kB	2025-05-08 02:33 PM	⋮
Anime Meets Antibiotics A Visual Guide to Bacterial Resistance.pdf	0 Downloads	1.3 MB	2025-05-08 02:36 PM	⋮
characters				⋮

Science Can Be Creative—and Open

- Science communication doesn't have to be dry
- Visual metaphors help bridge gaps
- Sharing our work openly helps others do the same



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