



PATHOGEN

Clostridium botulinum (botulism)

When this species is in play you
cannot play any food cards.

*This microbe is responsible for botulism,
a kind of food poisoning*



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Clostridium difficile

When this species is in play you
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microbes, except using "Probiotics."

An increasing problem in hospitals



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An increasing problem in hospitals



PATHOGEN

Yersinia pestis (plague)

*This is the microbe responsible for
bubonic plague ("Black Death")*



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PATHOGEN

Salmonella enterica

*A common source of food poisoning,
often associated with poultry*



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MICROBE

PATHOGEN

Mycobacterium leprae (leprosy)

Once a significant problem, leprosy
is now treatable with antibiotics



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MICROBE

OPPORTUNISTIC

Lactobacillus reuteri

Synthesizes vitamin B12
when in **BENEFICIAL** zone.

Humans are unable to synthesize
vitamin B12 alone



K
B1
B12



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K
B1
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MICROBE

OPPORTUNISTIC

Bifidobacterium longum

Synthesizes vitamin B1 (thiamine)
when in **BENEFICIAL** zone.

Humans are unable to synthesize
this vitamin alone



K
B1
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MICROBE

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Synthesizes vitamin B1 (thiamine)
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Humans are unable to synthesize
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K
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MICROBE

OPPORTUNISTIC

Escherichia coli

Synthesizes vitamin K
when in **BENEFICIAL** zone.

E. coli is normally an important part
of your gut microbiome



K
B1
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MICROBE

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Escherichia coli

Synthesizes vitamin K
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E. coli is normally an important part
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K
B1
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MICROBE
OPPORTUNISTIC

Fusobacterium nucleatum

If less than 3 microbes in your **BENEFICIAL** zone at end of turn, becomes a **pathogen**.

Common in healthy humans, but extra abundant in some illnesses



+2 Returns to **BENEFICIAL** zone any turn you have 3+ microbes there. -1

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MICROBE
OPPORTUNISTIC

Lactobacillus rhamnosus

When in your **BENEFICIAL** zone you can digest lactose and grains.

While generally considered safe (even used in probiotics), L. rhamnosus can also cause problems



+1 MILK GRAIN -2

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MICROBE
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Prevotella melaninogenica

When in your **BENEFICIAL** zone you can digest grains and plants.

Lives in the mouth and can both help digest carbohydrates and lead to periodontal disease



+1 GRAIN PLANT -2

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Lives in the mouth and can both help digest carbohydrates and lead to periodontal disease



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MICROBE
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Treponema carateum

When in your **BENEFICIAL** zone you can digest plants and lactose.

Has been known to cause human disease, but members of this genus may also be important in digesting fiber



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MICROBE
BENEFICIAL

Micavibrio aeruginosavorus

During your turn you may
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microbe in your **PATHOGEN** zone.

*Can kill other bacteria and is being
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Common in dairy products and probiotics



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MICROBE

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Can degrade gluten in the human mouth



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MICROBE

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Bacteroides ovatus

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*Found in most people and can
help digest dietary fiber*



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EVENT



PREBIOTICS

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INFECTION



Fungal

If target player has 2 or less microbes in their **BENEFICIAL** zone they lose 2 health each checkup.

A healthy microbiome helps protect against fungal infections



Discard when:
3 or more microbes are
in the **BENEFICIAL** zone

-2



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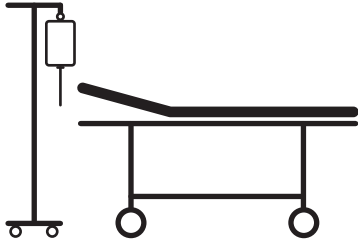
-2

INFECTION

Nosocomial

Only playable on a player who has received antibiotics or a fecal transplant this game.

"Nosocomial infection" is the medical term for a hospital-acquired infection



Discard when: player gains health (not including during a Gut Check)

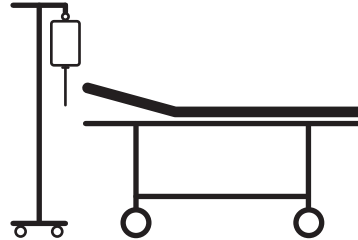
-3

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EVENT SALAD

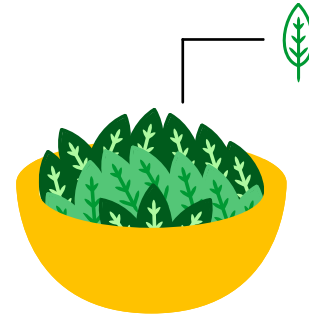


If you have the ability to digest plants:



Gain 1 health immediately for each microbe with that ability.

Feed those microbes...



EVENT SALAD

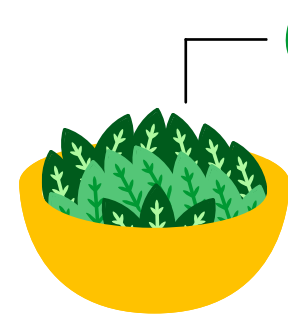


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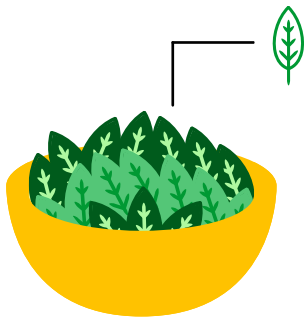


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EVENT BREAD

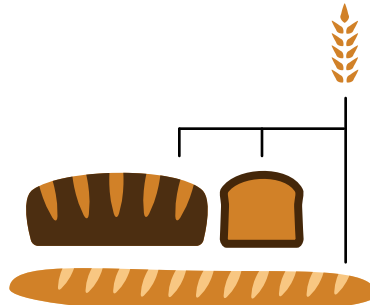


If you have the ability to digest grains:



Gain 1 health immediately for each microbe with that ability.

Carbs!



EVENT BREAD

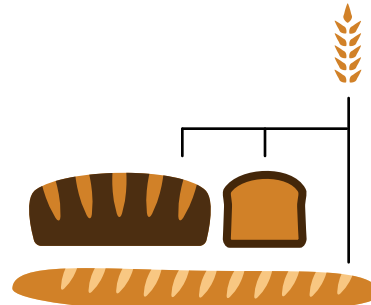


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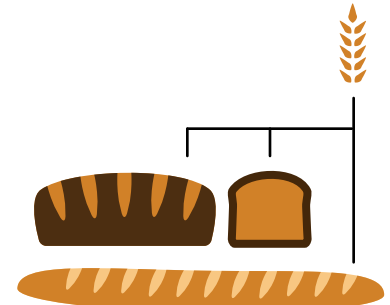


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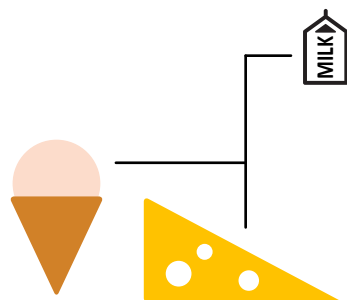
EVENT MILK



If you have the ability to digest lactose:

+1 Gain 1 health immediately for each microbe with that ability.

Lactose intolerance is caused by the body ceasing production of the enzyme lactase



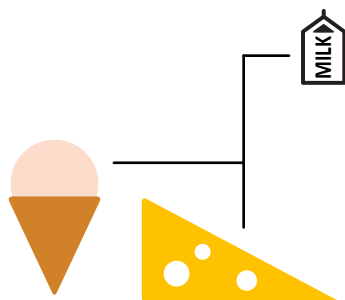
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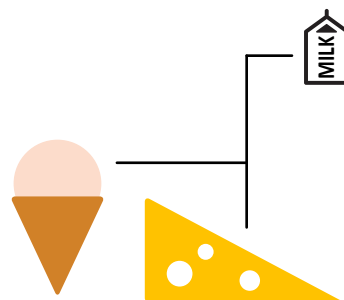
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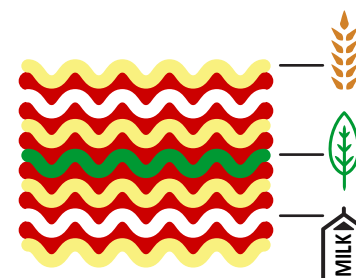
EVENT LASAGNA



If you have the ability to digest plants, grains, and lactose:

+4 Gain 4 health immediately

Mmmmm.... Lasagna



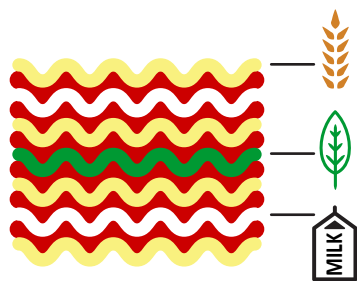
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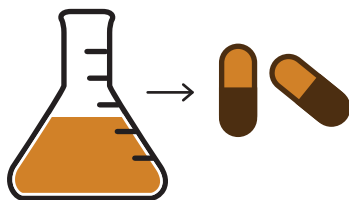


EVENT FECAL TRANSPLANT



-3 This card removes all cards from your **PATHOGEN zone** (regardless of resistance), you lose 3 health.

A fecal transplant deposits material from a healthy donor into your gut

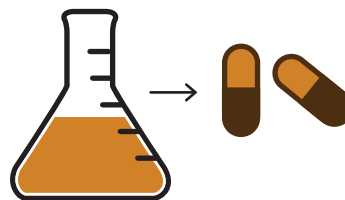


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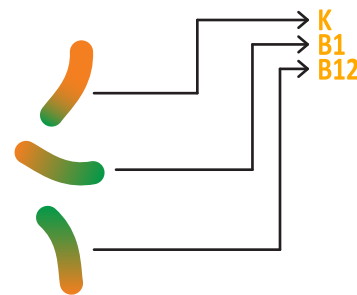
EVENT VITAMINS



If you have the ability to synthesize vitamins:

+1 Gain 1 health immediately for each microbe with that ability.

Probably better in your gut than in a pill



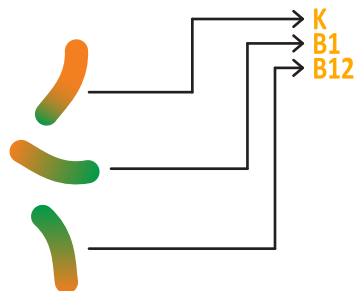


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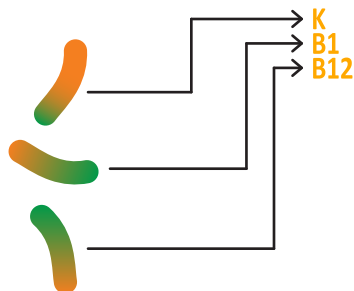


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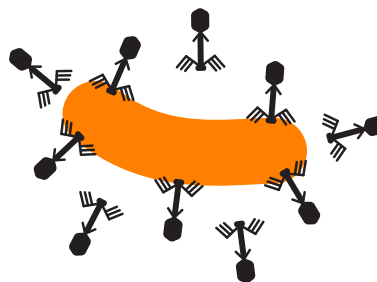
Probably better in your gut than in a pill



EVENT BACTERIOPHAGE THERAPY

Destroy any one microbe in play.

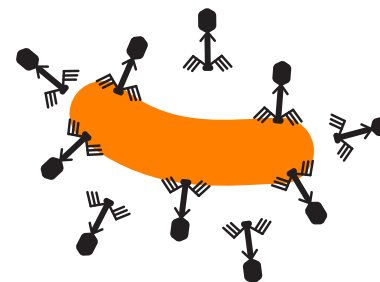
Bacteriophages are viruses that attack only bacteria



EVENT BACTERIOPHAGE THERAPY

Destroy any one microbe in play.

Bacteriophages are viruses that attack only bacteria



EVENT HOMEOPATHY

Play this card for no effect whatsoever.

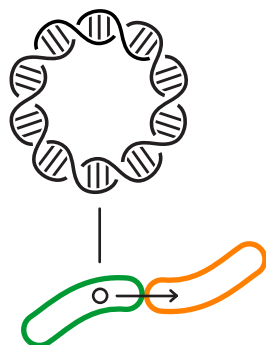
But hey, no side effects



EVENT LATERAL GENE TRANSFER

Move any plasmid in play to another microbe within the same player.

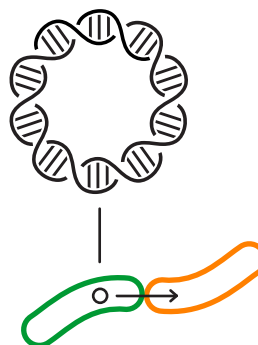
Microbes love to share



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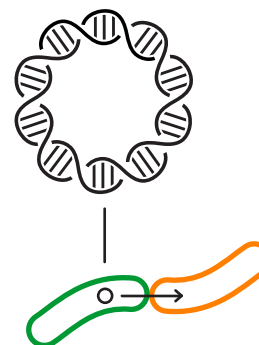
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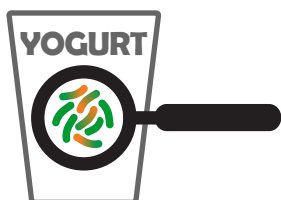
EVENT



PROBIOTICS

Draw cards from the deck and place the first non-pathogen microbe in your **BENEFICIAL** zone. Reshuffle deck afterwards. Does not count as playing a microbe this turn.

Probiotics are microbes found in foods such as yogurt that have a putative health benefit when ingested



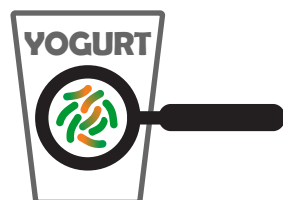
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PLASMID

Gives any single microbe resistance to Tetracycline.

A plasmid is a small circular piece of DNA containing genetic information



**TETRACYCLINE
RESISTANCE**

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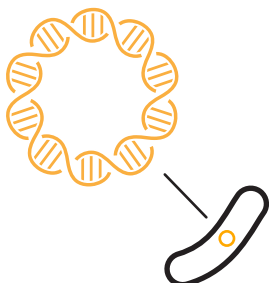


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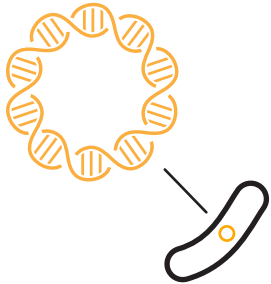


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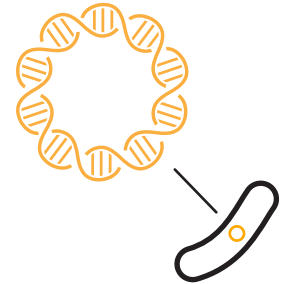


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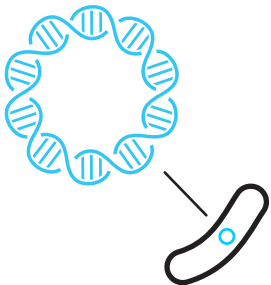


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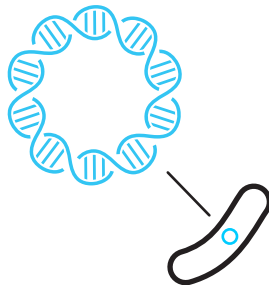


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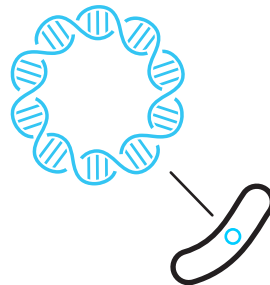


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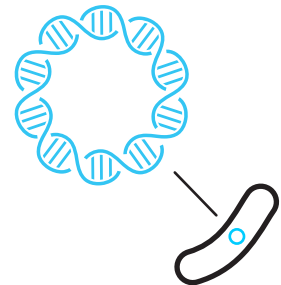


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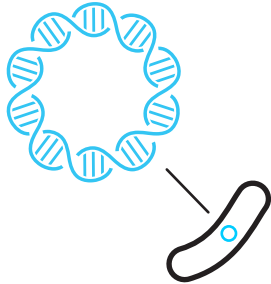


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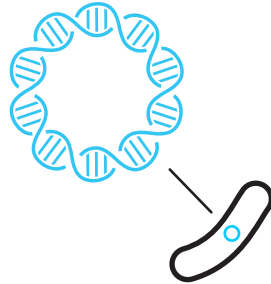


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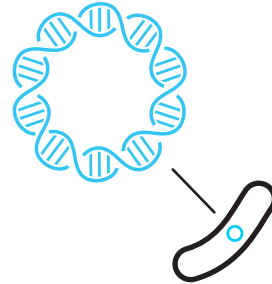


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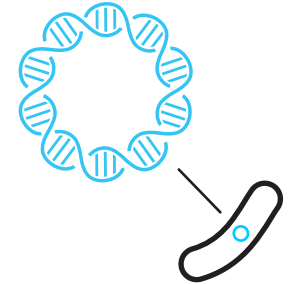


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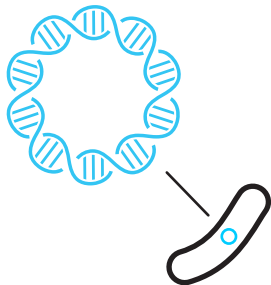


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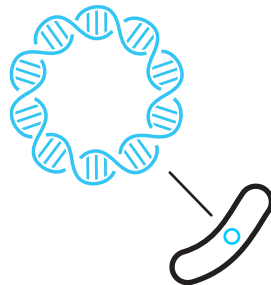


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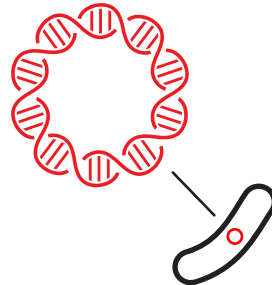


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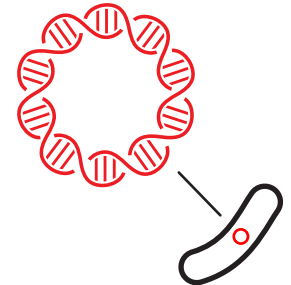


**AMPICILLIN
RESISTANCE**

PLASMID

Gives any single microbe
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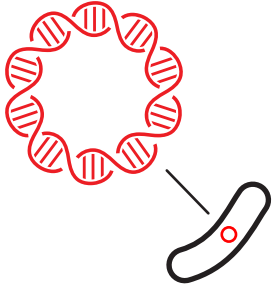


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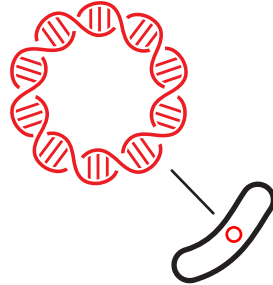


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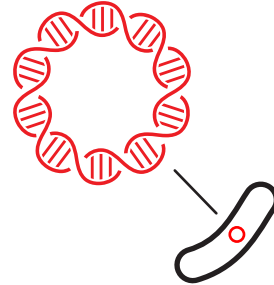


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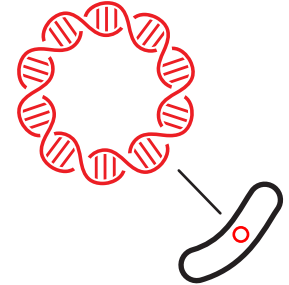


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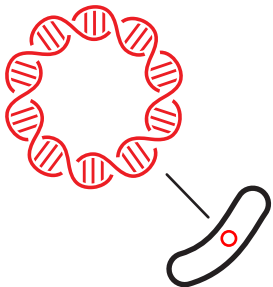


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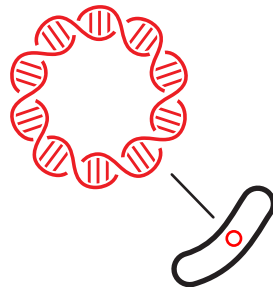


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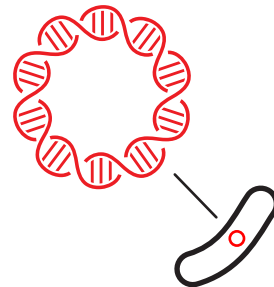


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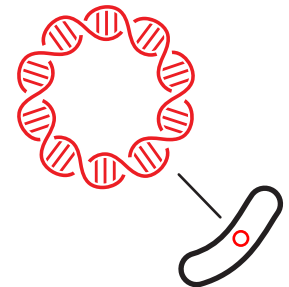


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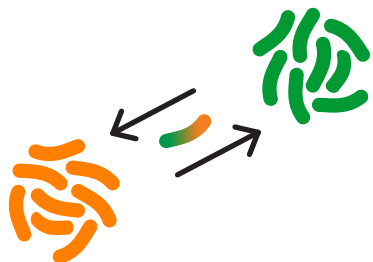
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CHANGE IN HEALTH

Target player moves any opportunistic microbe from **BENEFICIAL** to **PATHOGEN**, or vice versa.

Changes in your health or the composition of your microbiome can cause some species to run amok



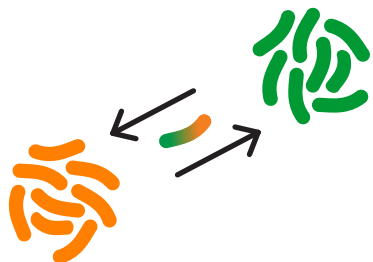
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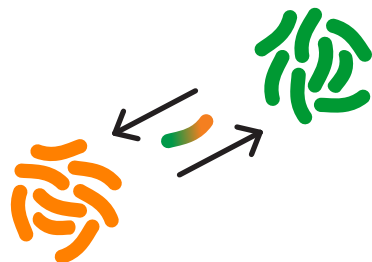
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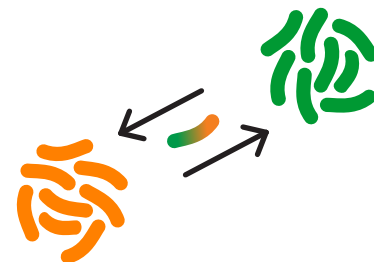
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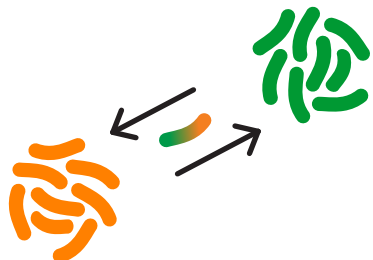
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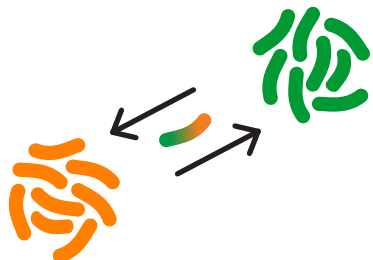
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EVENT



ANTIBIOTIC

Tetracycline

- Target player may remove up to 2 non-resistant **PATHOGEN** zone microbes
- Must remove half of their non-resistant **BENEFICIAL** zone microbes (rounded down)
- Must subtract 1 health
- See “Plasmid” rules

Once widely-used, resistance to tetracycline is now common



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Produced by the bacterium Streptomyces kanamyceticus



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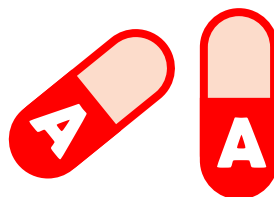


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EVENT



MICROBIAL DIVERSITY

If you have at least 4 microbes in your **BENEFICIAL** zone, remove a microbe from your **PATHOGEN** zone.

There appears to be a correlation between diversity of microbiota and health





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EVENT



GO TO WORK SICK



Lose 2 health and give a microbe from your **PATHOGEN** zone to target player. *Stay home!*



EVENT



GO TO WORK SICK



Lose 2 health and give a microbe from your **PATHOGEN** zone to target player. *Stay home!*



EVENT



AIRPLANE TRIP

Each player passes one microbe *in play* to the player on their left (if that microbe is opportunistic, it moves to the same type of zone on the target player).

Sharing is caring



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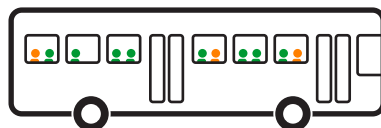
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BUS TRIP

Each player passes one microbe *in play* to the player on their right (if that microbe is opportunistic, it moves to the same type of zone on the target player).

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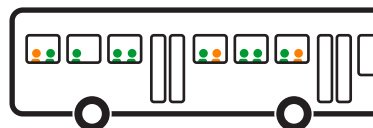
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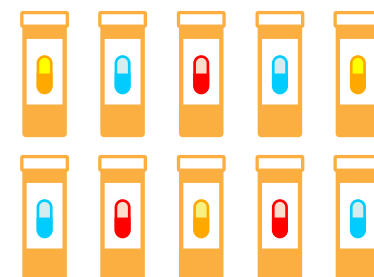


RAID THE PHARMACY

Search the deck for any antibiotic of your choice (tetracycline, kanamycin, or ampicillin). Show to all players.

Shuffle the deck afterwards.

We're not suggesting you do this...





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GUT CHECK

PLAY IMMEDIATELY

Every player scores their microbiome:



Positive health for cards in their **BENEFICIAL** zone



Negative health for cards in their **PATHOGEN** zone and **INFECTION** zone

The vast majority of gut microbes are found in the large intestine.



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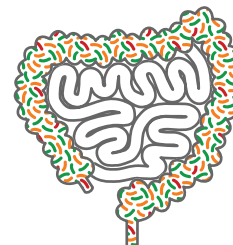


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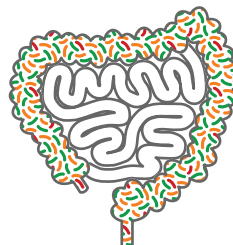


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KEY

ANTIBIOTICS



Ampicillin Resistance



Tetracycline Resistance



Kanamycin Resistance

DIGESTION



Plants



Lactose



Grain



K
B1
B12

Vitamins

KEY

ANTIBIOTICS

X

A

Ampicillin Resistance

X

T


Tetracycline Resistance

X


K

Kanamycin Resistance


DIGESTION



Plants



Lactose



Grain

K

B1

B12

Vitamins

KEY

ANTIBIOTICS

X

A

Ampicillin Resistance

X

T


Tetracycline Resistance

X


K

Kanamycin Resistance


DIGESTION



Plants



Lactose



Grain

K

B1

B12

Vitamins

KEY

ANTIBIOTICS

X

A

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T


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K

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