

2 - Acquired Immunity/Peyer's Patch

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[01:29] ---

EPISODE 2:
ACQUIRED IMMUNITY

[01:31] ---

"Acquired Immunity."

[01:38] ---

What's this?

[01:40] ---

What are all these images I'm seeing?

[01:42] ---

WHITE BLOOD CELL

[01:50] ---

CELL

[01:54] ---

They're heading this way!

[01:56] ---

They're flowing...

[01:58] ---

right into my mind!

[02:09] ---

Mump...

[02:17] ---

What's wrong with you, Memory Cell?

[02:20] ---

*M-Meteorite shower, people fighting,
a messenger from the outside world...*

[02:27] ---

What were those images I just saw?

[02:29] ---

*Why would I have such a gorefest of a dream
when I'm not even a Phagocyte? It shouldn't happen!*

[02:34] ---

The whole thing felt so abnormal.

[02:37] ---

Did I envision the moment

the world will end?

[02:40] ---

*If that's the case,
then was that a vision of the future?*

[02:44] ---

And that dream... Could it be...

[02:47] ---

Memory?

[02:48] ---

*It's not just that I've committed all past
antigen battles to my memory...*

[02:51] ---

*I now have the ability
to see the future, too?*

[02:55] ---

Memory!

[02:57] ---

*If that's true, then when that virus shows up,
the world will come to an end!*

[03:03] ---

Do you hear me, Memory?

[03:05] ---

Enough with the mumbo jumbo!

[03:07] ---

Just get on with recording
the antigen data, will you?

[03:10] ---

It all hinges on your body of knowledge
whether or not I can put up a fight, okay?

[03:19] ---

*A viral infection has just been
detected in the parotid gland.*

[03:23] ---

*All Immune Cells in the area,
please head to the site immediately.*

[03:28] ---

Come on, let's go! If it's a known antigen,
we have to mow them down with antibodies!

[03:32] ---

Come on, time to get to work!

[03:34] ---

R-Right.

[03:36] ---

TOUR ROUTE

[03:36] ---

See? It's that thing
hiding in the shadows!

[03:39] ---

I wonder what that one is.
This is so weird.

[03:54] ---

MUMP

[03:55] ---

Mump.

[03:58] ---

What is that thing?
That's one strange virus.

[04:01] ---

Memory, is it in your records?

[04:03] ---

Huh? Memory?

[04:05] ---

Get a hold of yourself!

[04:06] ---

Memory!

[04:07] ---

*It's not like the world's definitely
going to end just yet!*

[04:10] ---

*Use your gift of second sight
to find a solution!*

[04:10] ---

ARISE ARISE

[04:14] ---

Come to me.

[04:17] ---

Come to me!

[04:18] ---

Mump!

[04:21] ---

Wait a sec!

[04:27] ---

Huh?

[04:30] ---

Target sighted!

[04:32] ---

Mump!

[04:34] ---

Die!

[04:39] ---

Hey, thanks, Neutrophil.

[04:41] ---

Sure. Long time no see,
B Cell and Memory Cell.

[04:44] ---

Don't leave me behind!

[04:45] ---

Come to me, premonition!

Come to me! Come to me!

[04:48] ---

What happened to my third eye? Open up!

[04:50] ---

Hey, is something wrong,

Memory Cell?

[04:53] ---

Never mind. We'll deal with all this,

so you guys go on ahead.

[04:58] ---

Mump!

[05:01] ---

Mump!

[05:05] ---

Wha...

[05:06] ---

Mump!

[05:07] ---

Whaaat?

[05:16] ---

Oh my! Oh my!

[05:20] ---

These guys are multiplying

like crazy now!

[05:28] ---

*I don't believe it! All that fighting
that I foresaw is really happening now!*

[05:33] ---

*Sure, it seems somewhat different
than what I saw with my second sight,*

[05:38] ---

*but does this mean
that my gift is the real deal?*

[05:42] ---

Meaning that the fate of this world is—

[05:47] ---

Hey, I didn't know you were here, B Cell!

[05:50] ---

Hurry up and make
some antibodies to save us!

[05:52] ---

This virus is no joke!

[05:54] ---

Hold on a second. I can't make antibodies without any data on the antigens.

[05:58] ---

I need someone to present the antigen first.

[06:00] ---

Okay then, forget the antibodies! Just take those guys out!

[06:03] ---

Well, I may be a type of White Blood Cell, but I don't do phagocytosis.

[06:08] ---

I specialize in attacking with antibodies, so—

[06:10] ---

Oh, come on! Figure something out, useless!

[06:13] ---

Wh-What did you call me?

[06:15] ---

*I'm the only one who can save the world!
Focus! Clear your mind!*

[06:20] ---

A bizarre virus... A battle... Something...

[06:24] ---

Something's about to come raining down, I think.

[06:28] ---

I have no idea! Come on! My miracle second sight power!

[06:31] ---

Whoa! What are you doing, Memory? Hey!

[06:36] ---

Mump!

[06:38] ---

Take this!

[06:42] ---

Thanks for saving us!

[06:44] ---

Will that do?

[06:52] ---

I'll go present the antigen to the Commander Helper T Cell, then.

[06:57] ---

Take care, everyone!

[06:59] ---

Roger that! We're counting on you!

[07:01] ---

Counting on you!

[07:02] ---

*Once the antigen's presented,
the reinforcements will arrive.*

[07:05] ---

But can we hold out until then?

[07:11] ---

Come on! Help me look, Memory!

[07:14] ---

We'll make do with a similar-looking virus!
Can't you think of anything?

[07:17] ---

Don't talk to me, B Cell! The future...
I'm about to get a glimpse of the future!

[07:23] ---

All this talk about the future
when we're in a crisis...

[07:26] ---

Never mind the future!
Remember the past, will you?

[07:32] ---

Hey...

[07:35] ---

That's right.

[07:36] ---

It happened all too suddenly.

[07:39] ---

From out of the distant sky,

[07:41] ---

way beyond anyone's reach,

[07:42] ---

a colossal tube appeared.

[07:46] ---

*And then, a flood of spheres sealed by powers
from another world came spilling out.*

[07:54] ---

*Hey, there's something inside!
Inside those capsules!*

[08:08] ---

*What are these things?
They're weak as hell!*

[08:10] ---

*You're right, totally weak!
Could they be any weaker?*

[08:14] ---

Mump!

[08:16] ---

Such pushovers.

I wonder what their deal is.

[08:19] ---

Who knows?

[08:20] ---

*I guess we should stick to protocol and have someone
present the antigen and preserve the data sample.*

[08:26] ---

Leave it to me.

[08:27] ---

*Please record the antigen data,
all right, Memory Cell?*

[08:31] ---

Oh! Will do!

[08:38] ---

So, that wasn't me seeing the future,

[08:42] ---

MEMORIES

[08:42] ---

*but rather images from the past
that I was seeing?*

[08:45] ---

Vaccination.

[08:47] ---

*To inject a pathogen or toxin
in a weakened state in advance*

[08:49] ---

*in order to acquire immunity from an antigen
as a preventative measure*

[08:53] ---

to develop protection against that disease.

[08:57] ---

*The antigenic substance
that is administered is called a "vaccine."*

[09:01] ---

Mump!

[09:12] ---

Mump!

[09:17] ---

Mump!

[09:18] ---

Here they come!

They're going to try to smother us all at once!

[09:21] ---

Mump!

[09:26] ---

Wh-What's going on?

[09:36] ---

Hey, you guys...

[09:43] ---

Thanks for waiting.

[09:44] ---

The system will now launch.

[09:46] ---

Self-check, okay. Starting injection protocol.

[09:52] ---

Target identified.

[09:54] ---

Antigen identified. Target, lock on.

[10:00] ---

Energy charge complete.

[10:01] ---

Eat this, you dirty virus! This is...

[10:06] ---

PLEASE TAKE GOOD CARE
OF B CELL

[10:07] ---

the power of acquired immunity!

[10:10] ---

Acquired immunity.

[10:12] ---

*Immunity acquired
by infection or vaccination after birth.*

[10:22] ---

*And so, thanks to the power
of acquired immunity,*

[10:24] ---

*the antigens soon vanished
without a trace.*

[10:28] ---

Wow, that only took a second!
And without antigen presentation, too!

[10:31] ---

Way to go, B Cell!

[10:33] ---

Good ol' antibodies!

[10:36] ---

Well, he was able to make those antibodies
without the antigen presentation

[10:40] ---

thanks to my memories, you know.

[10:42] ---

What are you talking about? Jeez!

In the first place, it was you who—

[10:44] ---

Oh hey! Never mind that!

[10:46] ---

There already was an entry on today's virus,
listing it as an antigen,

[10:50] ---

but you were going on and on about some prophecy,
and you just forgot. That was the problem!

[10:55] ---

What's going on here?

[10:56] ---

The thing is,
this guy really dropped the ball today!

[10:59] ---

Hey, um, h-hey, hey, B Cell...

[11:02] ---

Just take a look at this.

[11:04] ---

Mumps virus.

[11:06] ---

The virus that causes epidemic parotitis.

[11:09] ---

*Characterized by swelling of one or both
parotid glands, causing difficulty in swallowing.*

[11:14] ---

*This is why epidemic parotitis is also known as the
"mumps," the plural form of "mump" or "grimace."*

[11:22] ---

I mean, look how thorough your records are!
Shouldn't we feel ridiculous? After all that toil!

[11:29] ---

Keep it in your head, for goodness sake!

[11:32] ---

Forget this ever happened, okay?

[11:34] ---

Huh? Should I have kept my mouth shut?

[11:37] ---

Where's the virus?

[11:39] ---

What, is it over already?

[11:44] ---

Man, I'm beat.

[11:47] ---

PEYER'S PATCH

[11:49] ---

"Peyer's Patch."

[11:54] ---

Here's the next batch!

[11:55] ---

SMALL INTESTINE

[11:56] ---

Lactose, sucrose, maltose!

[11:58] ---

Right!

[12:01] ---

So, this is the small intestine!

[12:03] ---

This is where they process all the nutrients, right?

[12:06] ---

Hey, what a bustling,
pleasant place this is, huh?

[12:08] ---

Thank you so much
for showing us around!

[12:11] ---

I have absolutely no clue about this area!

[12:14] ---

Don't mention it. You're welcome.

[12:16] ---

This is my first time here, too,

[12:19] ---

but I learned all about the small intestine
during my Erythroblast days.

[12:23] ---

Didn't anyone teach you, too, Senpai?

[12:28] ---

I-I know! Why don't I go get us some tea?

[12:31] ---

I'll only be a minute!

[12:32] ---

Hey, thank you so much!

[12:34] ---

PITTER-PATTER

[12:35] ---

Hey, Neutrophil!

You sure have the guts.

[12:39] ---

Here we are in the intestines, a single membrane
away from 120 trillion teeming bacteria,

[12:44] ---

and you're totally mellowing out.

[12:47] ---

Let me remind you, this isn't a vacation spot

for you nonchalant cells to zone out in!

[12:51] ---

It's a battleground where we Immune Cells
lock gazes with the germs!

[12:56] ---

Killer T...

[12:58] ---

I never knew you Neutrophils
were this complacent.

[13:01] ---

If you don't get your act together,

[13:03] ---

you and your friends will end up massacred,
and it'll be "The End" for you.

[13:08] ---

I'm not going to let that happen.

[13:10] ---

What's that? You've got a problem?
You're the one to blame.

[13:15] ---

I was only showing the new Red Blood Cells around
so they'd have an easier time doing their jobs.

[13:20] ---

That's what I mean!
Enough with the hand-holding!

[13:23] ---

Killing the enemy is the only thing
that should be on your mind!

[13:26] ---

H-Hey, hey, both of you...

[13:27] ---

All I want to know is, will you be able to respond
in an emergency if you're so laid-back?

[13:33] ---

What if, even as we speak...

[13:35] ---

there are germs on the...

[13:38] ---

attack.

[13:43] ---

This isn't the colony of bacteria
that resides in the intestines!

[13:46] ---

We're being attacked by every last germ
that multiplied in the nutrients!

[13:50] ---

This is 1146! Bacteria that multiplied

in the small intestine at D6-18 has landed!

[13:55] ---

The surrounding tissue is being destroyed!

Requesting immediate backup!

[14:00] ---

- Killer T...

- Huh?

[14:02] ---

We'll pick this up again later.

[14:04] ---

Give us a hand if it comes to that.

[14:06] ---

Right.

[14:10] ---

The toxic gas from that bacteria
is endangering the surrounding cells!

[14:14] ---

If we don't stop them,
it'll generate carcinogenic metabolites!

[14:17] ---

We have to eliminate them right away!

[14:19] ---

I'd like to see you try it, White Blood Cell.

[14:24] ---

Of course...

[14:26] ---

if you care at all about the life
of this Intestinal Epithelial Cell,

[14:29] ---

your only option is to do
whatever we Campylobacters say!

[14:34] ---

Campylobacter.

[14:36] ---

*One of the types of bacteria that causes infectious
enteritis, triggering fevers, diarrhea and stomach pain.*

[14:42] ---

Wha... A hostage? That's so low!

[14:46] ---

Help me!

[14:48] ---

It's not like we didn't think
long and hard about this.

[14:51] ---

After all, you murdered
so many of our friends.

[14:54] ---

Because your duty is to protect
the lives of all the normal cells, am I right?

[14:59] ---

All right, we shouldn't be lounging around here
or you might catch us off guard.

[15:03] ---

We'll be standing by
inside the intestinal tract.

[15:07] ---

Try and catch us if you can,
White Blood Cells!

[15:10] ---

Dammit!

[15:12] ---

We can't exit this tissue!

[15:13] ---

Hold up, Campylobacter!

[15:15] ---

Give us back that hostage!
What are your demands?

[15:19] ---

We want you to make these intestines
a more comfortable place.

[15:22] ---

For us Campylobacters, that is.

[15:25] ---

You'll deliver nutrients to us first
and eliminate all germs that get in the way!

[15:34] ---

And you White Blood Cells will perform for us
every day on the other side of that membrane

[15:38] ---

to keep us entertained.

[15:40] ---

Yeah, like that!

[15:42] ---

Also, you'll provide us
with three meals and a nap per day...

[15:46] ---

prime real estate in a quiet location
commanding a fine view

[15:49] ---

where we can build our own colony!

[15:52] ---

We're going to build a paradise of Campylobacters
by Campylobacters and for Campylobacters!

[15:59] ---

After which, for the sake of maintaining order
in perpetuity and for all eternity...

[16:02] ---

All right, fine.

[16:03] ---

We'll accept your terms.

[16:05] ---

MURMUR

[16:06] ---

Once we've done that—

What? No way! You accept?

[16:10] ---

Yippee!

[16:10] ---

IN TRAINING

[16:13] ---

What the...

[16:15] ---

*All right! In that case, we'll release
the hostage, but first, do as I say!*

[16:20] ---

Think about what you've done!

[16:21] ---

*You bastards slaughtered scores of our friends!
Dance some kind of jig!*

[16:25] ---

We have no choice! Dance!

[16:27] ---

Now pulverize each other!

[16:31] ---

Wh-What the hell is that moron doing?

[16:34] ---

*I always knew he was a moron,
but who would've known he was this stupid?*

[16:39] ---

W-We did as you asked.

[16:42] ---

All right, then, let the hostage go!

[16:47] ---

Now that you're in such a weakened state,

[16:49] ---

you probably couldn't catch me
if I invaded the tissue.

[16:53] ---

What? Don't tell me you're...

[16:55] ---

It'd be too pathetic if you died

because you turned on each other.

[16:58] ---

Why don't I just finish you off myself?

[17:00] ---

Wait, Campylobacter!

That's not what we agreed on! Let the hostage—

[17:04] ---

What do I care? Die!

[17:10] ---

You utter fool!

[17:12] ---

He was never going to release the hostage!

[17:15] ---

How can you not see that?

[17:17] ---

Squad Leader...

[17:24] ---

Just look at you!

[17:26] ---

You really underestimated
the power of a germ!

[17:31] ---

Bye now!

[17:32] ---

Come back here!

You're not heading that way!

[17:36] ---

Jeez, the germ just took off
with the hostage!

[17:40] ---

Damn, I can't even watch this.

[17:43] ---

You stupid nonchalant cell...

[17:47] ---

Talk about pesky!

[17:48] ---

You still have enough strength left
to chase after me?

[17:53] ---

Ouch, ouch, ouch, ouch!

[17:54] ---

Are you okay...

[17:55] ---

No. 1146?

[17:59] ---

This is bad! Look at us! We're so close
to that spot that's super-easy to infiltrate!

[18:03] ---

There's no villi there, so it's like
an easy access entrance for bacteria!

[18:07] ---

You idiot! Keep your voice down
about that stuff!

[18:10] ---

Hey! That is...

[18:11] ---

Shush! We can't let them find out!

[18:13] ---

My bad!

[18:14] ---

They're in an uproar about something.

[18:16] ---

Hey, do you know
what they're talking about?

[18:18] ---

W-Well, that would be... um...

[18:20] ---

Well, if I told you...

[18:22] ---

would you at least spare my life?

[18:24] ---

Sure, I can do that.

[18:26] ---

Hey, don't do it, Intestinal Epithelial Cell!

[18:27] ---

You see, up ahead, there's a spot
where both villi and membranes are sparse.

[18:28] ---

Anything but that!
Just don't breathe a word about that to him!

[18:31] ---

And if I may say so myself,
it's about as airtight as a sieve.

[18:33] ---

So, I imagine it would be easily
infiltrated by you bacteria.

[18:34] ---

TEARY EYES

[18:39] ---

By any chance,
would you be talking about...

[18:42] ---

this place right here?

[18:44] ---

Uh-oh! We're doomed! He found it!

[18:46] ---

Um, what should I do now?

[18:48] ---

Shut up!

I have no more use for you!

[18:50] ---

Yippee! Follow me, you guys!

We've invaded the tissues!

[18:53] ---

From here on in, we'll have
unlimited food and a warm place to sleep!

[18:57] ---

And we'll never have to worry about
earning our keep again!

[19:03] ---

Woo-hoo! Nutrients!

[19:05] ---

Lucky us! Look how much there is!

[19:08] ---

Let's start gorging ourselves
and dividing like crazy!

[19:18] ---

Welcome.

[19:19] ---

What'll it be for you, sir?

[19:24] ---

What do you mean, what'll it be?
I'm a bacterium! I want all of the food here!

[19:30] ---

Ah, you don't say.

[19:32] ---

Please, partake.

[19:34] ---

After all, this is more or less your Last Supper.
Please enjoy yourselves to the fullest.

[19:39] ---

What are you talking about? Oh, never mind!
I'm just going to grab whatever— Wha...

[19:45] ---

We thought you'd never get here,
Campylobacter.

[19:48] ---

An Immune Cell?
Wh-What are you doing here?

[19:52] ---

Wh-What good will it do

to take us on alone?

[19:55] ---

It's punishment time.

[19:57] ---

To think that you couldn't see
through all that blatant baiting...

[20:03] ---

Stooping to dirty tactics
like taking a hostage...

[20:06] ---

Don't underestimate us Neutrophils!

[20:08] ---

This is an immune tissue
in the small intestine

[20:12] ---

where we lure stupid germs like you
so we can kill you in one fell swoop!

[20:16] ---

A Peyer's Patch!

[20:17] ---

Peyer's Patch.

[20:18] ---

*A mass of immune tissue that can be found in the
depressions between the villi in the small intestine*

[20:23] ---

or in areas where there are no villi.

[20:26] ---

They are filled with lymphatic nodules.

[20:30] ---

*These patches play a crucial role
in the intestinal immune system.*

[20:39] ---

And I'm M Cell,
the proprietor of this Peyer's Patch.

[20:44] ---

M Cell.

[20:46] ---

*A cell found on the surface of the Peyer's Patch
which traps bacterial and viral antigens.*

[20:52] ---

*The captured bacteria and viruses are handed off
to the Dendritic Cells and presented as antigens.*

[20:57] ---

You never caught on, but we sent
a signal when you knocked us back

[21:04] ---

that we were going to lure you

to the Peyer's Patch.

[21:08] ---

S-Signal?

[21:09] ---

That's right!

[21:11] ---

That was...

[21:12] ---

the "M" for "M Cell"!

[21:16] ---

That's not fair!

[21:17] ---

Shut up!

[21:18] ---

Like fair has anything to do with it!

[21:24] ---

CERTIFICATE
OF APPRECIATION

[21:25] ---

Hey, that sure worked out!

[21:28] ---

Good job, getting him
to fall for your trap!

[21:31] ---

I know I kept calling you a moron...

[21:35] ---

but you do have a good head on your shoulders
sometimes. I had the wrong idea about you.

[21:40] ---

Killer T...

[21:41] ---

But from now on,
try not to mellow out too much.

[21:45] ---

Try not to mellow out too much.

[21:47] ---

Try not to mellow out too much.

[21:49] ---

I seem to have forgotten something.

[21:53] ---

That White Blood Cell's taking forever, huh?

[21:56] ---

Just how long are we going to wait?

[21:59] ---

I wonder if he got lost.

[22:01] ---

Uh-oh!

[22:03] ---

I totally forgot to get
the Red Blood Cells their tea!

[22:06] ---

Okay, so he is a moron after all.

[23:24] ---

NEXT EPISODE PREVIEW

[23:25] ---

My receptor's picked up something!

[23:27] ---

White Blood Cell!

[23:28] ---

There's a weird mask on the ground!

[23:30] ---

- De-Dengue!

- De-Dengue!

[23:32] ---

Next episode of "Cells at Work!!"...

[23:34] ---

"Dengue Fever/Acne."

[23:34] ---

EPISODE 3:

DENGUE FEVER/ACNE

[23:36] ---

Work hard every day!

Revision #1

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