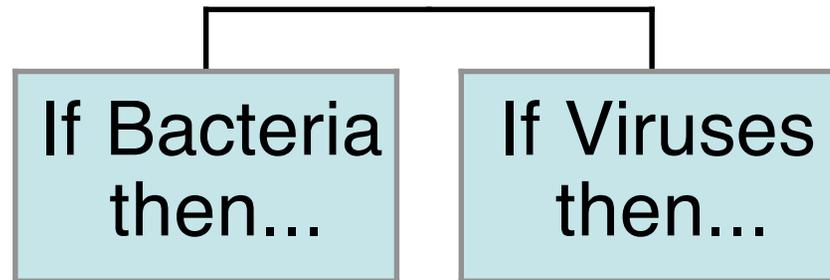


How does my immune system react when I puncture my skin on a dirty splinter and I am allergic to wood?

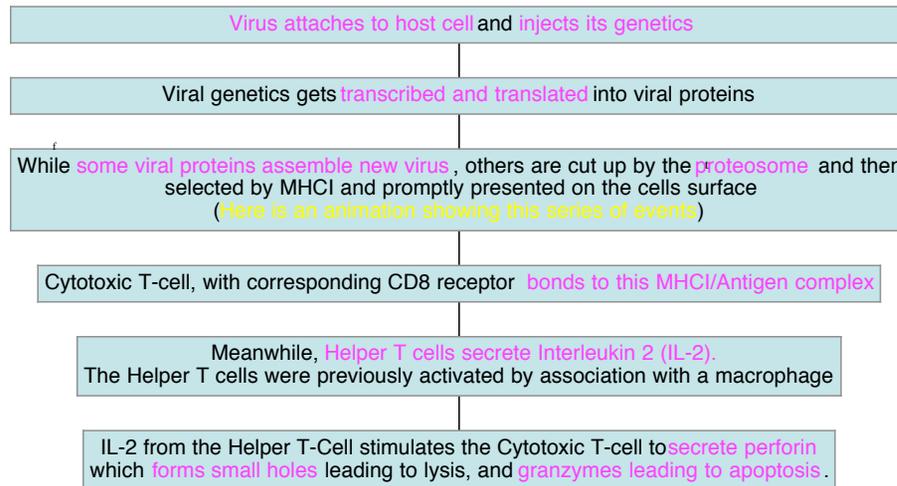
Oh no! It's a dirty splinter!

Click here to meet the bad guys



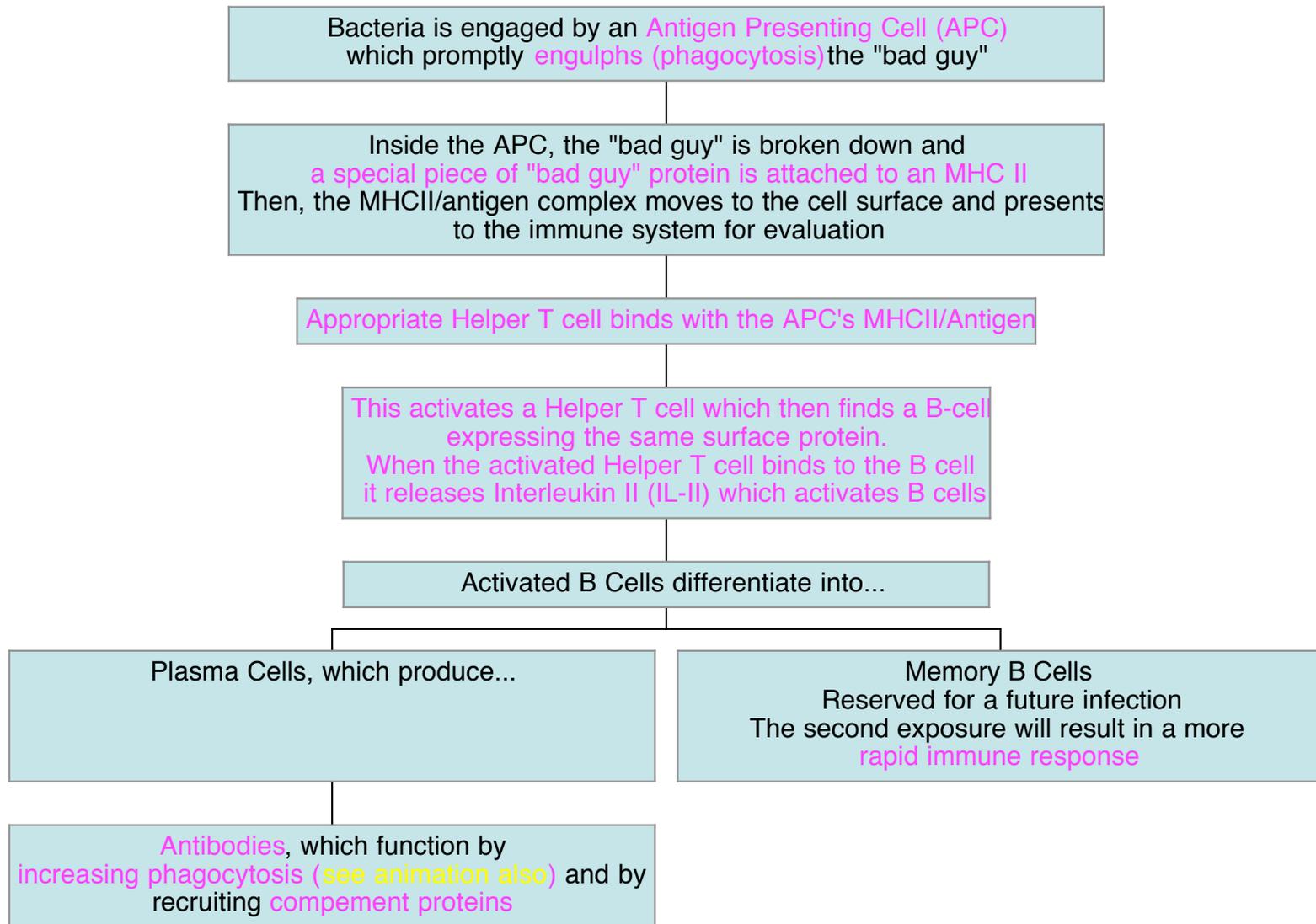
Oh no! It's a virus!

Cell Mediated Immunity

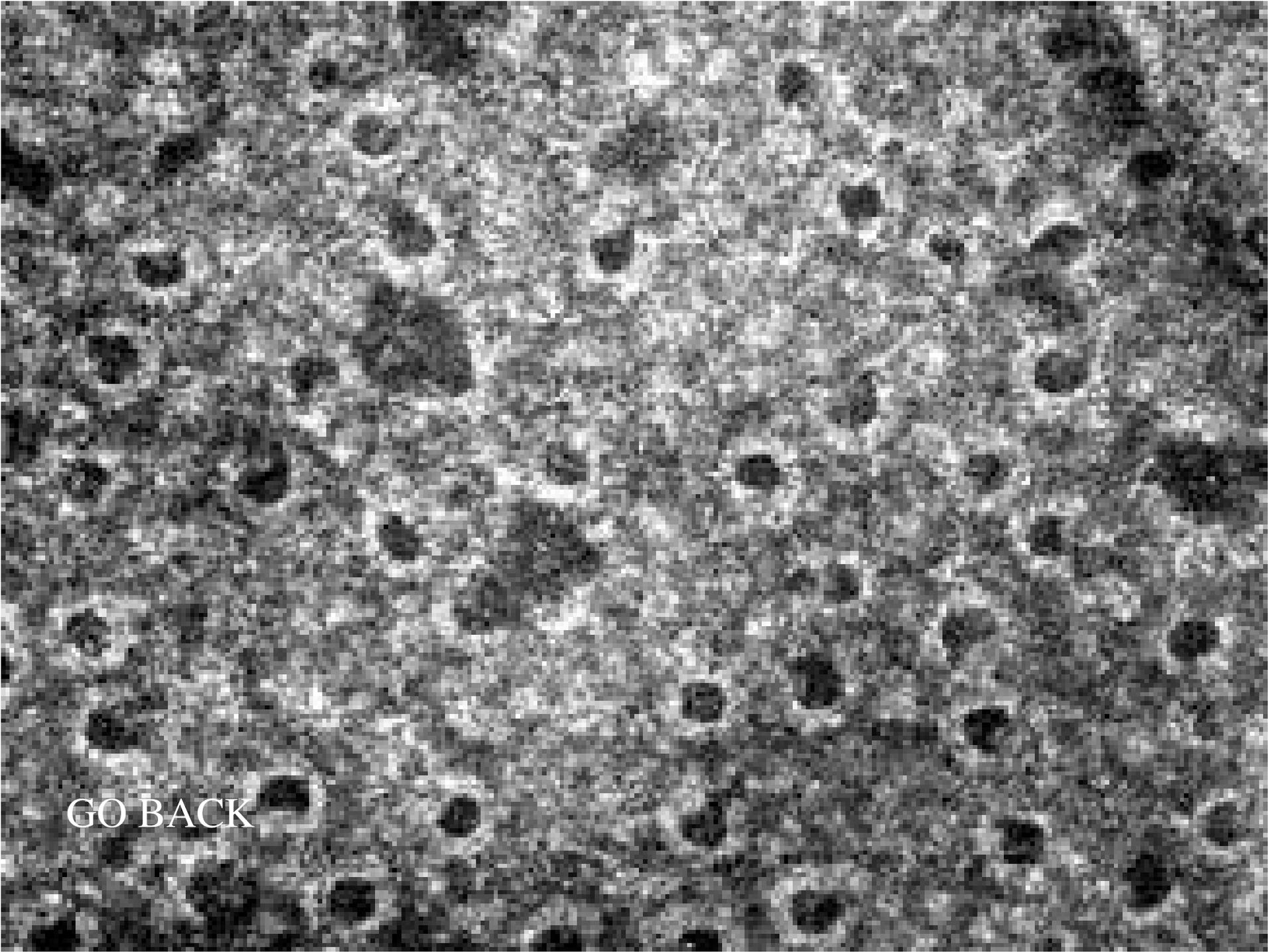


HOME

Oh no! It's a bacteria! Humoral Immunity



HOME



GO BACK

Oh no! I'm allergic too!

- [Introductory Allergy Animation illustrations](#)
- [Detailed animation of role of mast cells, antibodies, and histamine release](#)

HOME

JEOPARDY!

Check your Knowledge Game

HOME

Oh no! It's a virus!

Cell Mediated Immunity

Virus attaches to host cell and injects its genetics

Viral genetics gets transcribed and translated into viral proteins

While some viral proteins assemble new virus, others are cut up by the proteasome and then selected by MHC I and promptly presented on the cells surface
(Here is an animation showing this series of events)

Cytotoxic T-cell, with corresponding CD8 receptor bonds to this MHC I/Antigen complex

Meanwhile, Helper T cells secrete Interleukin 2 (IL-2).
The Helper T cells were previously activated by association with a macrophage

IL-2 from the Helper T-Cell stimulates the Cytotoxic T-cell to secrete perforin which forms small holes leading to lysis, and granzymes leading to apoptosis.

Oh no! It's a bacteria! Humoral Immunity

