FAS Federation of American Scientists

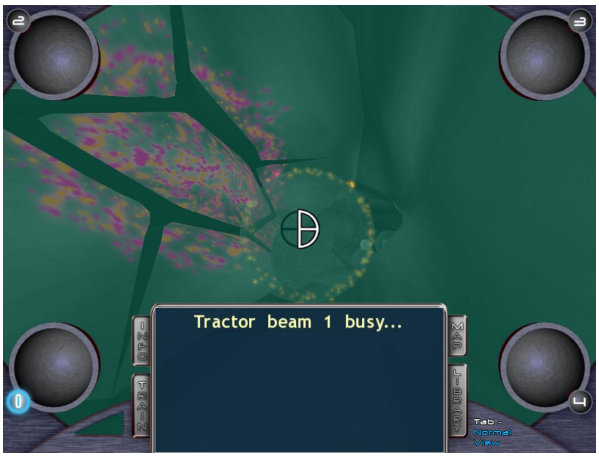
Immune Attack™

Exploiting stunning three-dimensional graphics and gripping interactive and motivational experiences of modern game technology, *Immune Attack*™ combines realistic depictions of biological structure and function with advanced educational technologies to provide an introduction to basic concepts in immunology for high school and college students. Unlike many previous educational media and materials, *Immune Attack*™ is intended to be as fun and compelling as the computer games currently played by many adolescents and young adults. Students are motivated with a series of increasingly difficult challenges in a compelling gaming environment in which success depends on increasingly sophisticated grasp of concepts in immunology.

Immune cells eat invading bacteria in the ear.

Features include:

- **Scientifically accurate simulations of the immune system**
- **Integrated question answering tools which provide a wealth of context sensitive information and feedback.**
- **Interactions between a diverse set of cellular characters clearly illustrates how the immune system functions in the real world**



Explore your body using different views to highlight important educational content.

Immune Attack™ will help teach young adults to choose better lifestyle behaviors to protect themselves from infection – they will experience first-hand how difficult it is for the immune system to defend against many viruses and bacteria. It will also expose young adults to the exciting fields of healthcare and biosciences. With *Immune Attack*™, students will experience the challenges of defending the human body against invading antigens and the potential for healing and saving lives. At this critical age when which many young adults must make decisions about college and careers, this exposure may attract more students to careers in bioscience research, medicine and other healthcare professions.

FAS is a leading coalition partner for Digital Promise, a consortium established to create the *Digital Opportunity Investment Trust* (www.digitalpromise.org). *Immune Attack*™ is an exemplar project to demonstrate *DO IT*'s potential to transform learning and training.

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