Human Immunodeficiency Virus (HIV) and Acquired Immunodeficiency Syndrome (AIDS) have been the focus of intense scientific study for over three decades. Findings from these studies have contributed to our current understanding of the disease and helped design ways to treat it. In particular, atomic level structures of HIV/AIDS-related proteins have played an important role in the discovery of many anti-HIV treatments. With today’s combination therapies, HIV/AIDS has become a manageable chronic illness. However, cases of new HIV infection continue to be reported, demanding broader awareness and understanding of HIV/AIDS. Here is where you come in…

Tell a creative and informative story about HIV/AIDS!

The RCSB PDB invites you to participate in a video challenge where you can create short videos that tell a story about HIV/AIDS using molecules from the PDB archive.

What is the challenge?
Create a brief video (two-minutes or less) focused on any topic related to the structural biology of HIV/AIDS, such as:

- The partial or complete life cycle of HIV
- HIV vs the human immune system—presenting the scenario of what likely happens in an individual upon exposure to HIV
- HIV testing—to detect infection and as a follow-up during anti-HIV treatment
- Anti-HIV treatment options and the challenges of drug resistance
- HIV vaccines
- HIV and cancer
- Any other aspects of HIV/AIDS of interest

The video must include visualization/animation of two or more molecular structures from the PDB to illustrate the HIV/AIDS story that you are telling. All images, animations and narrative used in the video should be original, used with permission, or available for reuse under a Creative Commons license.

Who can participate?
All high school students who are residents of the United States are eligible to participate in the challenge. Students new to the subject are strongly encouraged to participate. Educational materials are available from PDB-101 www.rcsb.org/pdb-101.

How to participate?

Follow the instructions at rcsb.org/pdb-101 in the Video Challenge section.

- Each entry must be accompanied by the name and contact information of the teacher/faculty member from the participant’s high school. Teacher/faculty members may sponsor multiple entries.

No purchase is necessary to participate or win in this challenge.

Important Dates
Submit your video between Monday, February 17, 2014 at 12:01 am Eastern Time (ET) and Saturday May 31, 2014 at 11:59 pm ET.

Judging will take place June 1 - 10, 2014.

Winners will be announced at rcsb.org the week of June 16, 2014.

Find molecules related to HIV: rcsb.org
Educational materials and challenge guidelines: www.rcsb.org/pdb-101
Questions? info@rcsb.org

All qualified submissions will be eligible to win one or more of the following awards:

JUDGE’S AWARD
A panel of expert judges will review the videos, looking at overall impact, scientific content, concept, originality, creativity, entertainment value, and production quality. The top three entries will be recognized, promoted on the RCSB PDB website and featured in the Newsletter’s Education Corner.

VIEWER’S CHOICE AWARD
As voted by the viewers.

SERVICE TO THE COMMUNITY AWARD
Videos with scientifically accurate content and interesting presentation will be forwarded to the AIDS Education Training Center (AETC) National Resource Center for consideration as material for training health care professionals, patients and their families. Selected entries may receive separate recognition.