

Show Electron Microscopy Image:

Background Color

H: 251

S: 184

V: 255

Glow Settings:

Threshold:

Amount:

Vignette:

Depth of Field (Blur):

Greyscale:

Invert Mouse:

Show an electron micrograph and change display options with the TOOL PANEL.

H: 242

S: 160

V: 255

RT - Reverse transcriptase builds a DNA copy of the viral RNA genome, which is then used to build new viruses. This structure captures the enzyme as it is building a DNA strand from the viral RNA. It will then destroy the RNA and build a second DNA strand. Many of the drugs currently used to fight HIV infection block the action of reverse transcriptase.

Learn about the molecules and change colors with the INFO PANEL.

Get CellPAINT at:
<http://cellpaint.scripps.edu>

- Delete all molecules in the scene

Save a picture of the scene

Save your scene

Restore a saved scene

Pin molecules in one place

Move molecules by clicking and dragging them

Click to place a molecule, click and drag to place many

Erase a molecule

Increase the temperature for more motion

25nm

HIV

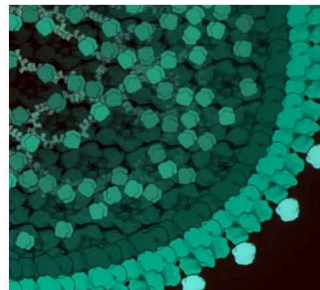
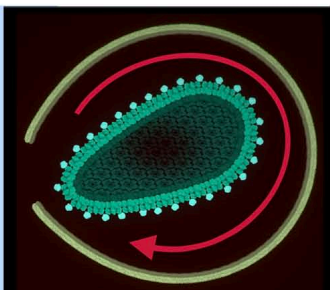
Choose molecules to paint into your scene with the MOLECULE PALETTE. Switch palettes with the arrows at top.

Blood Plasma

Choose multiple molecules with the BUCKET TOOL and paint them all into the scene at the same time.

Draw membranes and capsid in a clockwise direction, so the program knows what is outside and what is inside.

Draw membranes first, then place membrane-bound proteins on them.



Draw HIV RNA first, then select nucleocapsid in the molecule palette and click anywhere on the RNA. This will add nucleocapsid along the entire RNA strand.