In this folder you will find a 3-day lesson on HIV. Students will collaboratively use scientific evidence to investigate the possibility that genetic resistance to HIV exists. Students will be able to: Use reasoning in multiple forms of discussion and use evidence to support or refute competing scientific models related to the genetic basis for HIV Resistance. First as a class students will learn about making scientific arguments. Then HIV and resistance will be introduced with 4 pieces of evidence and 2 models. As they go through the models and evidence they will also answer questions and discuss the lesson as a class, in groups and in pairs.

**Materials for the teacher**

Teacher guides. Filenames:

*PRACCIS Genetics Lesson 7 ARGUMENTATION ACTIVITY TEACHER'S NOTES*.

*PRACCIS Genetics Lesson 7 HIV Teacher Packet*.

The first items to look at are the teacher’s guides. This gives you a complete understanding of the lesson and how to implement it. The first one is for the HIV part of the packet and the second is for the additional writing activity attached to this lesson.

Teacher powerpoint slideshows. Filenames:

*PRACCIS Genetics Lesson 7 Argumentation Activity Part 1 SHORTENED*

*PRACCIS Genetics Lesson 7 HIV Introduction Class*. These are for the teacher to use throughout this unit. They include slides with directions for what students should do, as well as background information. Each one goes along with 1 of the 2 parts of this lesson (general writing and HIV genetics).

There is 1 video file associated with the lesson. It has the following title and is shown to the students during the HIV portion of the lesson.

*PRACCIS Genetics Lesson 7 HIV Evidence 1 FIV*

Additional Papers. There is 1 additional handout associated with this lesson.

*PRACCIS Genetics Lesson 7 Writing Rubric*. This is a rubric for the teachers to use to grade student writing.

**Materials for the students**

Student packets. Filenames:

*PRACCIS Genetics Lesson 7 Argumentation Activity Part 2*

*PRACCIS Genetics Lesson 7 HIV Resistance Existance Student Packet*. The student packets include some information needed for the lesson as well as questions for students to answer individually and in pairs or groups. Each one goes along with 1 of the 2 parts of this lesson (general writing and HIV genetics).

**Summary of where to find models and evidence**

**Four models and five pieces of evidence are used in this lesson.**

Model 1 first appears on slide 7 of the HIV teacher powerpoint and page 1 of the HIV student packet.

Model 2 first appears on slide 7 of the HIV teacher powerpoint and page 1 of the HIV student packet.

Evidence 1 first appears on page 3 of the HIV student packet.

Evidence 2 first appears on page 4 of the HIV student packet.

Evidence 3 first appears on page 7 of the HIV student packet.

Evidence 4 first appears on page 8 of the HIV student packet and slide 9 of the HIV teacher powerpoint.

\*We recommend reading the teacher’s guide first and then familiarizing yourself with the rest of the materials.