**Fact Sheet Discussions**

Read the Fact Sheet document at <https://ghr.nlm.nih.gov/condition/sickle-cell-disease#genes> or the pdf version attached to the website.

If this activity is done as a flipped class, student can complete their explorations and answer the questions in the Activity/Discussion below as homework.

The same activity may also be done in class where groups of students collaborate to learn from the various links/resources included, and then share/ discuss their findings with the group/class.

**Activity/Discussion**

Answer the following questions in a few sentences each:

1. Describe the composition and overall structure of hemoglobin. Why is it so important for us?
2. How does sickle cell hemoglobin (HbS) in red blood cells cause them to sickle?
3. How does the sickling of red blood cells cause anemia, a shortage of red blood cells?