

## Infection Diseases Curriculum Activities

Curriculum activities to complement the December 1999 HHMI Holiday Lecture “2000 and Beyond: Confronting the Microbe Menace”

**By Angela M. Hejl, PhD, Yankton High School, Yankton, SD**

### Exercises

- Show the portion of the lecture *Outwitting Bacteria's Wily Ways* that deals with antibiotic resistance. Divide the class into groups and have students pretend they are a national committee appointed by the Center for Disease Control. Their task is to develop several specific national recommendations for antibiotic use that would reduce the risk of the development of antibiotic resistance.
- After watching *Microbes Strike Back* have students write a reaction paper identifying several ways in which bacteria are good and even necessary. Or they could be asked to work in groups and develop a chart listing how bacteria are “good” and how they are “bad”.
- After watching a portion of *Microbe Hunters* have students make a list of modes of transmission of disease and for each mode identify strategies that could be employed to prevent transmission.
- After watching *Emerging Infections: How Epidemics Arise*, students will be assigned to groups and given hypothetical situations on disease outbreaks. They will then be asked to become “disease detectives” and come up with a hypothesis as to source and mode of transmission and report their hypothesis to the class.