

9.14: Homework Assignment No. 2
Due date: April 6, 2005 (Wednesday)

1. Contrast concerted and mosaic evolution. Give an example of each.
2. Allman discussed in his book “the [adaptive] advantages and costs of front-facing eyes” for early primates (pp. 124-128). What are the potential advantages and costs? Also, how might the formation of front-facing eyes be related to some social behaviors of primates, such as altruism or cooperation?
3. What is Harry Jerison’s “principle of proper mass” (1973)? Is it true that the larger the size of a brain region, the more important it is to the proper functioning of the organism? Give examples to support your argument.

Note that before writing your responses down, you should think through the questions carefully, and develop a logical structure for your argument. You may extend, or even disagree with, the opinions of the textbook authors. I would accept your answers so long as your argument is sound.