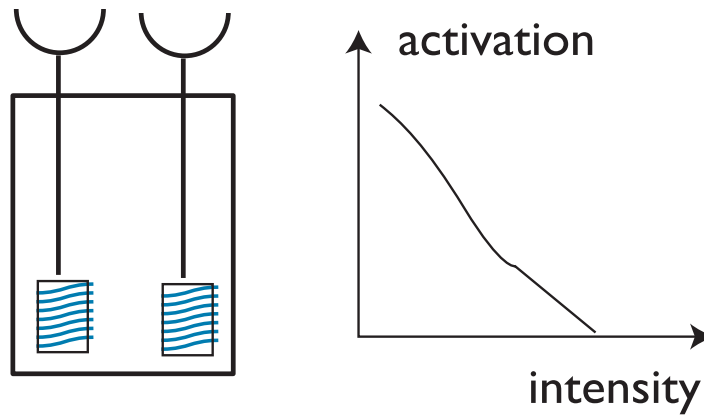


**Exercise 1, October 20, 2016      to be handed in October 27!**

Consider a Braitenberg vehicle number 2, with two sensors, which are connected to the ipsilateral (same side) effector. Assume the sensor characteristic is monotonically *decreasing* while the motor characteristic is monotonically *increasing*.



1. Analyze the behavior in the presence of a single source of stimulation by making a drawing and arguing qualitatively. [Reproduce the logic discussed in the lecture.]
2. What would happen if there were two sources in the environment? Argue in words. Make a drawing of the sensed intensity and distinguish different cases. [The lecture slides contain an answer.]
3. Considering the case in which the vehicle drives fast.
  - What would make the vehicle drive fast ? [Think in terms of the sensory and motor characteristics.]
  - If it drove so fast, that it could not turn in time before shooting beyond the target, what would happen?
  - By implication, which implicit assumption was made in the lecture?