Review of Week 2
Quiz B - in section during week 3

- Quiz B will be on week 2 reading and lecture material.
- Extra Credit pre-reading quizzes will be posted on TritonEd.
  - Announcement will be posted on TritonEd
- Updated course syllabus is posted on class website 😊
- Join Piazza and keep up with the class.
Rangel- Adult Neurogenesis

- What is the definition of adult neurogenesis? Where does it happen in adult human brain?
- What is the new estimation of the number of neurons in human brain?
- Know the process and stages of new neuron development. What happens to newborn neurons? How can we observe newborn neurons?
- Many things can influence adult neurogenesis, proliferation and survival are regulated by what factors?
- How new neuron development may help us understand the importance of hippocampus for learning and memory? What is the role of dentate gyrus?
- Know the rational behind the animal experiments introduced in the reading, “Saving New Brain Cells”. Understand the experiment designs and results.
From reading, “Saving New Brain Cells”, know learning enhances the survival of new neurons in the adult brain, and the limitation of its ability to rescue cells is limited.

What is Broca’s Aphasia? Know its major cause and symptoms.

What is Wernicke’s Aphasia? Know its major cause and symptoms.

From reading, “Brain Facts Review, Chapter 4”, what brain region is missing in patient H.M., which causes what symptoms? What can we learn from the case study of H.M?

From reading, “Brain Facts Review, Chapter 4”, know various types of memories and their differences.
What is a split-brain surgery (corpus callosotomy)? What is the purpose of it?

What is corpus callosum, and what is its function?

What is a seizure? What are the two types of seizures, and where normally do they occur?

What are the expertise of left and right hemisphere?

Know the five lobes of the brain and the major function of which.

What does it mean that information is processed contralaterally in our brain?

Know the axis in brain anatomy and the directional terms. Know the three planes of section and their differences.

According to the reading, “the Split Brain”, how does the cognitive ability of split brain patients differ from health individuals? What is the symptom of a split brain?

According to the reading, “the Split Brain”, what is the modular model?
Boyle– Split Brain

- Explain the following results in split brain patients: