

Title of Clerkship: Research in Neurosciences
Elective Type: Fourth Year Elective
Department: Neurosciences
Clerkship Site: Variable
Course Number: NERS 701
Blocks available: Variable
Number of students per block: 1 or more at the discretion of faculty
Faculty: Variable
Elective Description/ Requirements: Students will participate in a mentored research project that include laboratory work involving the direct application of the scientific method involving biochemical, physiological, anatomical, and/or molecular biological approaches. Students will be expected to test hypotheses and to collect data relevant to those hypotheses that pertain to important neuroscience issues.

Length of Clerkship: 8 weeks (Two 4-week blocks)

Links to EPOs **Educational Course Objectives:**

At the end of the rotation, the student will be able to:

- K7 Apply basic science knowledge to clinical problems
- S11 Perform a literature search on the topic of interest
- K8 Develop a research hypothesis and study design; analyze data, including statistical methods
- S1 Effectively communicate both orally and in writing, the results of the study
- P1, P2 Demonstrate honesty, integrity, and professionalism in the performance, interpretation, and presentation of the research

Professionalism: Meet or exceed institutional standards for professionalism as stated in the current Educational Program Objectives
Instructional Methods: Independent study, wet laboratory approaches, problem solving, laboratory meetings, literature searches

Evaluation methods employed: Students must submit a manuscript or a 5-7 page narrative summary of their work that includes the rationale/background, method(s), results, and discussion of the results.

Prerequisites: Successful completion of Year 1 and 2. If the project involves animal research, prior IACUC approval/training must be obtained PRIOR to the beginning of the clerkship.

Clerkship Director: Bryan Yamamoto
Nicolas Chiaia, Associate Clerkship Director

Clerkship Coordinator: Janet Sumner
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Special Requirements: Students must identify a research mentor to develop a brief description of the proposed project and activities prior to the clerkship. If the project involves animal research, prior IACUC approval/training must be obtained PRIOR to the beginning of the clerkship. The project description must receive initial approval by the department chair. Final approval must be given by the Associate Dean for Medical Education, Professionalism & Diversity

AAMC Hot Topics
Addressed in this Evidence Based Medicine (11)
Elective Clerkship: Collection and analysis of data (35)
Research methods (36)

(please make selection from attached Hot Topic list)