

Student and faculty expectations:

- Student contacts the faculty mentors to discuss project background, specific aims, and role of the medical student.
- After selecting a R&D project and faculty mentor, the medical student and mentor will submit a brief R&D pre-proposal.
- Students submit a final R&D proposal signed by both mentor and student.
- Student will submit a final report of the 10-week R&D activity.
- Student will present a poster on the R&D activity at Medical Student Celebration of Research Poster Day.
- Mentor and students will ensure addition of student to mentor's IRB or IACUC (even if participating in an external MSRP projects, including international projects) and work with UF mentor to ensure UF's IRB/IACUC office approves the research too, otherwise research may be invalid.

STUDY III. TITLE: Handedness and Hand Position

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FACULTY MENTOR DEPARTMENT: Neurology

This study includes three sub-studies.

1. Is the Right Higher? A) When bimanual activities are performed by right-handed people (RHP), the right hand is held higher than their left. To learn if the left hemisphere motor network has an upward bias, healthy blindfolded RHP will be asked to imagine that there is a 12 inch vertical line in front of them and they are to put the index finger of one hand on the top of the line and the index finger of the other hand on the bottom. B) RHP will be asked to place their left index finger 12 inches above their right and this between finger distance will be measured. Then they will be asked to place their fingers in the opposite (right above left) position and distance measured. Support of the 'right higher' hypothesis would come from having RHP having a greater distance when the right hand is higher.

2. Do Rightward Movements Go Higher than Leftward Movements?

On vertically positioned paper, blindfolded RHP will be asked, to make horizontal movements. Each hand will make leftward and rightward movements.

3. Does the Right Hand Like to Be Close to the Body?

In many activities, the right hand is held closer to the body than the left. To test this right hand likes to be close hypothesis, right handed participants will be given a wooden dowels and they will be asked to hold the dowel so that one end is in the middle their chest.