

## **Molecular and Translational Medicine**

**Director/Co-Director:** Diane Bick Ph.D./Bruce Kone M.D.

**Mission:** *To provide rigorous research and didactic training in the basic, preclinical, and translational sciences of human diseases so that students develop the ability to translate basic and clinical discoveries into better public health.*

**Maximum Number of Students/year:** 15-20

### **Student selection process:**

During their first year students will submit an application which is located on the Scholarly Concentration website. Admission will then be dependent upon review by committee comprised of Scholarly Concentration faculty. This committee will be responsible for assisting the student identify a mentor (if needed), monitoring the student's progress, and designing an individual core curriculum for the student.

Only students in good academic standing will be admitted.

### **Timeline (year by year) for student completion of concentration requirements:**

#### **Year 1**

- Identify a mentor
- Enrollment in a Summer Research Program between year 1 and 2 (for at least 8 weeks, about 40 hours a week).
- Attend lab meetings, seminars, and/or journal clubs required by mentor and research focus
- Attend summer research program lecture series run by the C-STEP program

#### **Year 2**

- Continue with research
- Continue with individual curriculum of study outlined by the advisory committee.
- Attend lab meetings, seminars, and/or journal clubs required by mentor and research focus.
- Meet with mentor at least twice

#### **Year 3**

- Continue with individual curriculum of study outlined by the advisory committee.
- Meet with mentor at least twice
- Attend lab meetings, seminars, and/or journal clubs required by mentor and research focus.

Optional: Enroll in the Scholarly Concentration Third Year Elective (SCHO 3030).

#### **Year 4**

- Senior research elective in area of interest.
- Submit a final written version of the research project to the mentor and directors.
- Attend lab meetings, seminars, and/or journal clubs required by mentor and research focus.
- Present final project at an appropriate venue (Grand Rounds, Research Seminar, regional/national conference).

## ***Suggested Didactic Courses.***

(The specific courses for each student will be determined by the interests of the student and the advice of individual advisory committees).

GS210061 Critical Thinking in Science; Mattox, William. One semester hour. Summer annually.

<https://gsbs.uth.edu/academics/courses/course-detail.htm?id=bb7b0ece-7e7d-43dc-8380-b893d70305e6>

Introduction to Clinical Research\*\*

Introduction to Translational Research\*\*

\*\* These classes and several others are offered by the Center for Clinical Research & Evidence-Based Medicine at the Medical School under the direction of Dr J. Tyson

<https://med.uth.edu/crebm/clinical-research-education/clinical-research-curriculum/>

<b>Past Molecular and Translational Medicine Mentors</b>
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<a href="#"><u>Bryan A Cotton</u></a>
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<a href="#"><u>Charles E Wade</u></a>
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<a href="#"><u>Dianna M Milewicz</u></a>
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<a href="#"><u>Jeffrey K Actor</u></a>
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<a href="#"><u>Laura J Moore</u></a>
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<a href="#"><u>Michael Curran</u></a>
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<a href="#"><u>Nicholas John Justice</u></a>
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<a href="#"><u>Tien C Ko</u></a>
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