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## Q1 Faculty Sponsor

First Name: Tina  
Last Name: Ross  
Faculty Title: Associate Professor of Medicinal Chemistry  
Department: GSBS  
Institution: DUCOM  
Campus: Center City  
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## Q2 Type of Research:

Other (please specify): Biochemistry

## Q3 Research Project Information - Please provide us with the following information on your project. You can submit up to 2 projects in this section.

1) Title of project: Analysis of legacy drugs in Mutter Museum Collection  
Duration: six months  
Time Commitment: 2 months  
Specific Skills and/or experience required: Successful completion of Organic Chemistry II  
Amount of time you are available for direct student supervision: 5 hours per week, more in summer

2) Title of project: Analysis of Monotropa uniflora for Neuroscience  
Duration: 1 year  
Time Commitment: 2 months  
Specific Skills and/or experience required: successful completion of Organic Chemistry II  
Amount of time you are available for direct student supervision: 5 hours per week, more in summer
**Q4 Brief Description of Project 1 (2-3 sentences):**

We are interested in elucidating the true identity of components in old ‘elixirs’ especially one for children, that are in the Mutter Museum Collection.

**Q5 Brief Description of Project 2 (2-3 sentences):**

We have discovered activity on a plant Monotropa uniflora and want to identify the active component.

**Q6 Please indicate which type of research experiences your project is available (check all that apply)**

- Research during the academic year (part time)
- Medical Student Summer Research Fellowship Program (Summer -minimum 40 hours per week)
- Scholars Program (including summer)

**Q7 Please indicate the level of training required, if applicable**

Open to all medical students