
HHMI Summer Research Program

Davidson College

Summer 2009

The Howard Hughes Medical Institute (HHMI) summer research program invites outstanding Davidson College students to collaborate with a participating faculty mentor on a ten-week summer research project in the biomedical sciences. In addition to a rich research component, this program includes weekly participant meetings to discuss research and develop professional skills for success in the sciences.

PROGRAM DETAILS

Application Deadline:	13 February 2009 (3:00 PM)
Notification Date	16 March 2009
Program Dates:	26 May – 31 July 2009
Student Scholarship:	\$4000
On-campus Housing Allowance:	\$1000
Travel Support to Scientific Meeting:	\$500

FACULTY MENTORS & PROJECTS:

more information at: www.bio.davidson.edu/programs/HHMI04/summerfellow.html

Dr. Campbell (Biology) – Designing and Building Bacterial Computers
Dr. Lom (Biology) - Developmental Neurobiology
Dr. Sarafova (Biology) - CD4+ helper T cell homeostasis
Dr. Wessner (Biology) - Analysis of Reovirus Disassembly, Replication, and Pathogenesis
Dr. Myers (Chemistry) - Folding & Misfolding of Myelin P₀ Mutants Implicated in Peripheral Neuropathy
Dr. Stevens (Chemistry) - Synthesis of Nucleoside Analogs
Dr. Heyer (Math) - Designing and Modeling Bacterial Computers
Dr. Smith (Psychology) – Physical Activity and Drug Self-Administration
Dr. Ramirez (Psychology) – The Functional Significance of Brain Plasticity

ELIGIBILITY

This program is open to current Davidson students who will graduate after June 2009.

Successful applicants often:

- are highly motivated
- are intellectually sharp
- are inherently curious
- have strong analytical skills
- have demonstrated desire to conduct scientific research
- learn effectively from their experiences
- can think and work both independently and as part of a team
- have completed appropriate introductory science courses
- have completed at least one appropriate advanced lab course

APPLICATION INSTRUCTIONS

All applications materials (completed form, two statements, and transcript) must be submitted in a single envelope addressed to "Dr. Barbara Lom - HHMI Summer Research Program" and delivered to her mailbox in the Biology Department office (Watson 162) no later than 3:00 PM on Friday, February 13, 2009.

For further information:

www.bio.davidson.edu/programs/HHMI04/summerfellow.html

Dr. Barbara Lom ([balom@davidson.edu](mailto:balom@ davidson.edu))

A. Biographical Information (type or print legibly):

Name (Last, First, Middle Initial) _____

_____ US Citizen _____ Permanent Resident _____ Other non-US Citizen

Date of Birth: ____/____/____ Gender: ____ Female ____ Male

Full Permanent Address (Parent's):

Street Address: _____

City: _____ State: _____ Zip: _____

Current Address (if different from permanent address):

Campus/Street Address: _____

City: _____ State: _____ Zip: _____

Email _____ Phone: (____) _____

Major: _____ GPA in major: _____

Advisor's Name: _____ GPA overall: _____

Year currently in school (CHECK ONE): ____ first year ____ sophomore ____ junior ____ senior

When do you expect to receive your Bachelor's degree? ____/____ (Month/Year)

Describe your plans after graduation: _____

B. Demographic Information (voluntary):

The HHMI summer research program encourages research participation of individuals from groups underrepresented in the biomedical sciences. Completion of this section is not required for consideration to the program. Please check all categories that apply to you.

____ African American ____ Asian American ____ Hispanic/Latino ____ Native American

____ Pacific Islander ____ White (non Hispanic) ____ Biracial/Multiethnic

____ Other (Describe) _____

____ Disability (Describe) _____

C. Signature

SIGNATURE _____ DATE _____

D. References

List three people familiar with your academic and/or research work who have agreed to serve as personal references.
Note: you do not need to request a letter of recommendation from these individuals, but the HHMI summer program may choose to request a verbal and/or written reference from these individuals in the process of evaluating your application.

1. Name: _____

Title: _____

Institution: _____

Phone: (_____) _____ Email: _____

2. Name: _____

Title: _____

Institution: _____

Phone: (_____) _____ Email: _____

3. Name: _____

Title: _____

Institution: _____

Phone: (_____) _____ Email: _____

E. Statement of Purpose (one-page essay):

In a single page, create a portrait of who you are as a student and potential scientist. When preparing your statement, please pay close attention to the criteria and characteristics of strong candidates listed on the cover page of this application. Be specific and thorough in your response. Describe relevant coursework and research experiences that make you a strong candidate. Share your expectations and reasons why you feel particularly qualified for the HHMI summer research program. Specify events and/or people that influenced your educational goals and career objectives and explain how your goals fit into the biomedical sciences.

F. Statement of Research Interest (one-page essay):

In a one-page essay, explain why you are most interested in a specific research project/mentor listed on the cover page of this application form.

Note: you are encouraged to contact faculty mentors before submitting your application in order to learn more about their specific research projects, expectations, etc.

G. Transcript

Attach a copy of your most recent Davidson transcript.

Note: an official transcript is not necessary.