A Summer Program at the University of Cincinnati College of Medicine
Pathways to Health Careers

ExSEL
Excellence in Science Education and Learning

for
Gifted and Talented High School Science Students

funded by the Howard Hughes Medical Institute
"I'm a good student and I love science. I think I want to be a doctor. Or maybe I'll be the scientist who discovers a cure for cancer."

**DOES THIS DESCRIBE YOU?**

If you are thinking about a challenging career in medicine or biomedical research, let the UC College of Medicine give you a head start on the path to achieving your career dreams.

The Howard Hughes ExSEL Program ............. page 3

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**What is the Howard Hughes ExSEL Program?**

The ExSEL Program is an intensive, five-week, summer enrichment program, funded by the Howard Hughes Medical Institute from June 10 through July 12, 2013. It is designed for gifted and talented high school science students who have an interest in pursuing a career in medicine or biomedical research. It features in depth enrichment in five areas of biomedical science: Cell biology, molecular genetics, structural biology, immunology, and neuroscience.

**What will I learn in those five weeks?**

You will participate in five one-week learning modules in each of the five featured biomedical science areas under the direction of five College of Medicine faculty members and their graduate assistants. Each one-week module will include instruction and hands-on research activities in a laboratory and computer classroom. Emphasis will be on strengthening the problem solving and critical thinking skills necessary for success as a college science major. Students, working individually or in teams, will be required to present their work at the end of each week’s learning module.

**Will I interact with research scientists?**

Each one-week module will be designed and directed by a senior faculty member who heads an active, cutting-edge research laboratory in the College of Medicine. Faculty module directors have been selected for their expertise in the five biomedical science areas mentioned above: Cell biology, molecular genetics, structural biology, immunology, and neuroscience. Research labs are located in the Medical Sciences Building and the Vontz Center for Molecular Studies.
How do I know if I am eligible for the ExSEL Program?
You are eligible to apply for the Howard Hughes ExSEL Program if you attend a Cincinnati metropolitan area high school (public, private, or parochial) and have completed your junior year by the beginning of the program. Special consideration will be given to students who attend a Cincinnati Public High School; however, all area rising seniors are eligible and will be considered. You may also apply if you are graduating from high school and will be entering college in Fall 2013. Twenty students will be accepted. You must have a cumulative GPA of 3.45 (unweighted) or above, a composite score on the ACT of at least 28 and/or a combined reading and math, on the PSAT of 135 or on the SAT of 1350 or above. You must have passed all sections of the 10th grade Ohio Graduation Test. Priority will be given to Ohio residents.

How much does the ExSEL Program cost?
There is no cost to you. As a matter of fact, we will pay you $750 to participate. We will also provide all books and program materials.

When and where does the ExSEL Program meet?
ExSEL meets from 9:00 a.m. to 4:00 p.m. Monday through Friday in the Medical Sciences Building (MSB) at the UC College of Medicine. The program runs for five weeks, June 10 - July 12, 2013. The closing awards banquet is scheduled for Thursday evening, July 11, 2013 from 6:00 – 8:00 p.m. ExSEL students must complete the entire five weeks of the ExSEL Program. There are no exceptions to this requirement.

When is the application deadline?
The priority application deadline is February 15, 2013. Later applications will be considered on a space available basis only.

Whom do I contact for more information?
Call Karen Henry, Program Coordinator, Pathways to Health Careers, at (513) 558-7212 or email karen.henry@uc.edu. For specific detailed information, call Mr. Lathel Bryant, Program Director, (513) 558-0693 or email lathel.bryant@uc.edu.
Online applications available on our website:
http://MedOneStop.uc.edu/Pathways.
APPLICATION PROCEDURE

We hope we have sparked your interest in participating in the Howard Hughes ExSEL summer enrichment program. We encourage you to complete an application and begin the next step in your journey toward a career in medicine or biomedical science.

The UC College of Medicine anticipates receiving a large number of applications for the ExSEL Program. The priority deadline for receipt of your completed application is February 15, 2013. All parts of the application must be submitted by that deadline date to receive full consideration for acceptance into the ExSEL program. Applications received after that deadline will be considered on a space available basis only. If all 20 spaces are filled, late applications will not be considered. Your complete application packet should include a completed ExSEL application, an official transcript from your high school, and two recommendations. In order to ensure full consideration of your application, the following procedures must be followed exactly.

1) Please request that your official high school transcripts including Fall semester grades and courses in progress. Include courses in progress and indicate grade-to-date in these courses. Your high school guidance counselor or principal can help you process this request.
2) Request that a science or math teacher and/or your school counselor or someone that knows you well fill out the recommendation forms. Please use the two recommendation forms provided in this application booklet or the forms from the online application.

3) Complete the online application. Please visit http://MedOneStop.uc.edu/Pathways.

4) Mail all supplemental documents in a single packet, postmarked no later than midnight on 2/15/2013. Please be sure to enclose:
   - (2) letters of recommendation in sealed envelopes
   - Official (sealed) high school transcripts
   - If applicable, proof of United States citizenship
   - Completed Application Receipt Form

Mail to: Howard Hughes ExSEL Program
         Pathways to Health Careers
         University of Cincinnati College of Medicine
         231 Albert Sabin Way
         PO Box 670552
         Cincinnati, OH 45267-0552

A faculty committee will review all application packets and assess the eligibility of each applicant. Final selection of students will be based on the following criteria: Academic and leadership potential, interest in medicine or other health/science related career, maturity, other exposures to health or research careers and suitability of the program for the participant. Admitted students will be notified by March 19, 2013.
**RECOMMENDATION FORM FOR HOWARD HUGHES EXSEL PROGRAM**

**UNIVERSITY OF CINCINNATI COLLEGE OF MEDICINE**
**2013 PATHWAYS TO HEALTH CAREERS**

APPLICANT’S NAME __________________________ DATE ________________

SCHOOL __________________________

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**TO THE APPLICANT:**
The Family Educational Rights and Privacy Act of 1974 and its amendments guarantee students access to their own educational records. Students are permitted to waive their rights of access to recommendations. The following indicates the wish of the applicant regarding this appraisal:

- I waive my right to review this recommendation.
- I do not waive my right to review this recommendation.

Signature of applicant __________________________

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**TO THE RESPONDENT:**
We would appreciate your candid appraisal of the applicant’s ability to benefit from a summer enrichment program for high school students. Using this form, please evaluate this applicant in relation to other students you have known.

How well do you know this applicant? ______________________________________________________________

What is your association with the applicant? __________________________________________________________

How long have you known the applicant? _____________________________________________________________

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**RATING OF PERSONAL CHARACTERISTICS**

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**Overall recommendation of applicant for the ExSEL Program**

[ ] Strongly recommend [ ] Applicant not suitable at this time

[ ] Recommend [ ] Insufficient information for recommendation [ ] Do not recommend

Name of Recommender _____________________________________________________________
(please print or type)

Position ____________________________________________________________

School (or business) __________________________________________________________

Address _________________________________________________________________
__________________________________________________________________________
__________________________________________________________________________

Telephone ___________________________ Email _____________________________

Day and time (after February 15, 2013) most convenient to telephone you if necessary for more information________

__________________________________________________________________________

Signature: ___________________________ Date: ____________________________

**PLEASE RETURN ALL LETTERS OF RECOMMENDATION, IN A SEALED ENVELOPE, TO THE APPLICANT.**

Applicants are responsible for submitting all application materials, including this form and letters of recommendation, in a single packet by February 15, 2013. Failure to do so may result in the applicants’ disqualification from the review process.
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The University of Cincinnati College of Medicine is an excellent place to receive a comprehensive view of medicine and biomedical science. The College of Medicine is part of the nationally recognized UC Academic Health Center whose expert staff and modern technology fulfill our mission of education and research. The Academic Health Center and its affiliated hospitals, including University Hospital, Cincinnati Children’s Hospital Medical Center, the Shriners Hospitals for Children and the Veterans Affairs Medical Center, whose mission is patient care, have facilities and services that are among the best and most up-to-date in the nation. Major research facilities include a state of the art Nuclear Magnetic Resonance (NMR) spectroscopy center for structural biology studies, a national program of excellence in molecular genetics, cell imaging, and ion imaging technologies, and the Center for Surgical Innovation.

The Academic Health Center’s major research programs are housed in the Medical Sciences Building, Kettering Labs, CARE/Crawley Building, Hoxworth Blood Center, Cardiovascular Research Center, the Vontz Center for Molecular Studies, and in location S and R at Cincinnati Children’s Hospital Medical Center. Major research programs include special emphases in genetic engineering, transgenic mouse biology, human genetics, cancer biology, cardiovascular and pulmonary biology, drugs and receptors, structural biology, neurobiology, developmental biology, molecular medicine, blood technologies, and environmental health science and technology.
See YOU next summer at UCCOM!

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Phone: 513-558-7212
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