



January 23, 2008

TO: High School Administrators, Teachers & Counselors

FROM: J. Michael Wyss, PhD

Director, Center for Community OutReach Development (CORD)
Professor Cell Biology

**RE: 2008 Summer Laboratory Research
Cutting-Edge Science Opportunities for High School Students**

The UAB Center for Community OutReach Development (CORD) is pleased to host the Seventh Annual **Summer Science Institute (SSI)** for high school students, grades 9 – 12. The goal of SSI is to prepare local high school students for competitive careers in biomedical sciences and healthcare. SSI is a progressive three-summer program which introduces students to basic scientific concepts and laboratory skills in summer one; develops and extends this knowledge during summer two and in summer three the students apply their training and skills by carrying out a biomedical study in a UAB research laboratory under the auspices of a premiere research investigator/mentor.

Enclosed is a fact sheet describing each SSI program component along with applications, brochures, and teacher recommendation forms. Please disseminate the information to your students. Please also feel free to make additional copies if needed. **Application deadline is 5:00 p.m., Friday, March 29, 2008.** All completed applications must be received, via fax or delivery to:

ATTN: Summer Science Institute
UAB-CORD
Room 503 CHSB 19
933 19th Street South
Birmingham, AL 35294-2041

Phone: (205) 934-5171

Fax: (205) 934-5158

Our goal is to provide all area high school students the highest caliber scientific experience that only a world-class research facility like UAB can offer. Graduates from SSI are competitive with students from education systems throughout the world, e.g., four of the seniors in last year's Research Interns Program have been accepted to the highly competitive UAB Science and Technology Honors Program and one was accepted into the equally competitive UAB Honors Program (all 5 with full scholarships).

Thank you for your assistance. Please feel free to contact us if there are questions. We greatly appreciate your efforts to make these opportunities available to students in your school system. We look forward to working with you and your students.

Summer Science Institute (SSI)
Program Fact Sheet

Application Deadline: Friday, March 29, 2008 for all SSI programs.

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Summer Science Institute Programs Offered:

SSI I: Fundamentals of Cellular and Molecular Biology

- A two-week (M-F) introductory laboratory and lecture course in molecular biology.
- Three sessions offered:

Session I	June 16 – June 27, 2008
Session II	July 7 – July 18, 2008
Session III	July 21 – August 1, 2008
- Students are off the week of June 30 – July 4, 2008, 4th of July holiday week.
- The 8:00 a.m. – 5:00 p.m. program features day-long experiments on microorganisms, DNA, genomes, protein crystallization, and viruses taught on campus by UAB faculty and staff.
- Fundamentals of Cellular & Molecular Biology is offered to entering freshman, sophomores and juniors.
- 18 students will be accepted per session.
- Tuition is \$250.00 per two-week session. Some Scholarships are available for students that can demonstrate financial need. Students must submit a request for a Scholarship due to financial need with proof of need based on: current IRS Tax records, free-lunch verification, WIC participation, etc.

SSI II: Advanced Principles of Biology and Neurobiology

- A two-week (M-F) intermediate laboratory and lecture course in biochemistry.
- Three sessions offered:

Session I	June 16 – June 27, 2008
Session II	July 7 – July 18, 2008
Session III	July 21 – August 1, 2008
- Students are off the week of June 30 – July 4, 2008, 4th of July holiday week.
- The 8:00 a.m. – 5:00 p.m. program features extended two-week research projects on biotechnology and the purification of biological products, enzyme structure and drug

design as well as immunology and host defense taught on campus by UAB faculty and staff.

- Advanced Principles is offered to sophomores and juniors. Acceptance preference is given to students participating in Fundamentals of Cellular and Molecular Biology the previous summer.
- 24 students will be accepted per session.
- Tuition for Advanced Principles is \$350.00 per two-week session. Some Scholarships are available for students that can demonstrate financial need. Students must submit a request for a Scholarship due to financial need with proof of need based on: current IRS Tax records, free-lunch verification, WIC participation, etc.

SSI III: Research Internship

- An eight-week (M-F) advance laboratory and lecture course in scientific research.
- One session offered: June 5 – August 1, 2008
- Day of July 4th off per UAB employee holiday schedule.
- Week one of the 8:00 a.m. – 5:00 p.m. internship features a week-long laboratory orientation in research equipment and techniques.
- Students spend seven weeks on the UAB campus working on a laboratory project under the supervision of UAB research faculty and staff.
- 20 students will be accepted.
- Acceptance preference will be given to SSI I and SSI II graduates from the previous summer.
- Scholarships are available for students from groups that are underrepresented in the research community. Each scholarship will pay \$2,000 to Interns who successfully complete the program. There is no cost for the Internship program.

Facts Common to all Applicants:

1. Students are required to submit a completed application by March 29, 2008. Please see requirements per program application level.
2. Applications may be printed from our website – www.uab.edu/cord
3. Finalists may be contacted to schedule an interview with the Summer Science Institute faculty during the first week of May.
4. Students may also at the discretion of the Director be offered a place in one of the other SSI programs based on academic performance on transcript.
5. **Closing Ceremony for CORD summer programs will be August 2, 2008. All participants are required to attend.**