

SEPA SCIENCE EDUCATION PARTNERSHIP AWARD

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Newsletter

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2007 SEPA AWARDEE

Health and Biomedical Science for a Diverse Community (Phase II)

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Funding Years: 2007 – 2009

Health and Biomedical Science for a Diverse Community (Phase II) is a Science Education Partnership Award (SEPA) project funded by the National Institutes of Health (NIH), National Center for Research Resources (NCR), and implemented by the Hall of Health Museum and Children's Hospital Oakland Research Institute (CHORI).



The primary project activity is the dissemination of a novel, interactive biomedical science curriculum for 4th and 5th grade students in low socio-economic environments. The curriculum, which was developed under a Phase I SEPA, addresses minority health issues such as asthma, obesity, diabetes, and heart disease. The project includes teacher workshops, family events, field trips to the Hall of Health, and a traveling exhibit on social and genetic factors in health. The traveling exhibit is a replica of an exhibit that was developed under a Phase I SEPA and is now on display at the Hall of Health.

The project has involved clinical as well as basic science investigators, patients and families, and high school and college students. It has drawn on the talents of teachers and health educators from the Berkeley and Oakland Unified School Districts; directors of past and current SEPA projects at the Exploratorium in San Francisco, Lawrence Hall of Science in Berkeley, and The Tech Museum in San Jose; faculty at San Francisco State University and the University of California at Berkeley; and employees of LeapFrog, Inc., a company located in Emeryville, California, that makes interactive educational products.

The ultimate goals of the project are to make science interesting and relevant to children who come from ethnically diverse, low socio-economic environments, to foster their interest in science so that they may consider future opportunities in careers related to biomedical science, and to give them information and tools to help them live healthier lives.

The curriculum was piloted at two elementary schools in Oakland, California, and will be used in after-school science clubs at 10 elementary schools in Oakland and Berkeley during the 2008-2009 academic year. Project activities undergo front-end, formative, and summative evaluation. Visit the website: <http://www.hallofhealth.org/sepa/>.

C · H · O · R · I

Children's Hospital Oakland Research Institute

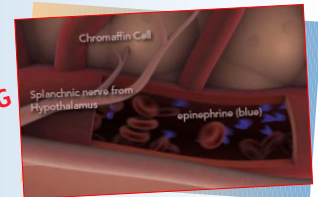


Educational Resources from Genome Science for Health: Web-Based Curricula for Biology, Phase I & II

Through the **Genome Science for Health** project, the Genetic Science Learning Center at the University of Utah seeks to educate secondary-level students and teachers about the role of NIH-funded research advances and clinical trials in improving health care. The Center is developing four web-based curriculum supplement modules—on cell biology, developmental biology, molecular genetics, and clinical trials—that illustrate the continuum from basic research through translational science to clinical trials and into medical treatments.

The first module, **"Amazing Cells"** is now available. Online student materials—including 3-D movies, interactive animations, and in-depth Learn More content—are available on the Center's Learn.Genetics website (<http://learn.genetics.utah.edu/>).

"AMAZING CELLS"



Accompanying Print-and-Go classroom activities and other teacher resources are available on the companion Teach.Genetics website (<http://teach.genetics.utah.edu/>).



SEPA WEBSITE

The SEPA website is a great resource. Projects are categorized into curricula, films/ multimedia, museum exhibits, equipment loans, teacher workshops, student programs, and parent workshops for easy access by users. You can also search for projects by PI name, project title, funding years, and keywords. Be sure to visit the SEPA website (<http://www.ncrrsepa.org/>) and send all updates about your project to the SEPA website staff. (teachhealthk-12@uthscsa.edu).



Mapping the Future of Bioengineering and Technology

PI: Valence Davillier
Institution: Great Lakes Science Center
Funding Years: 2005 – 2010



The Great Lakes Science Center, in collaboration with Case Western Reserve University (CASE), has developed a permanent exhibition and related programs on biomedical engineering. The successful implementation of this project has allowed CASE and GLSC to inform a broad constituency about select biomedical research advancements, applied technologies, and their relevance to society. The project exposes many visitors each year to the updated exhibition - increasing interest in and understanding of important science concepts underlying advancements in biomedical technology. Target



audiences for the exhibition include families, school groups, and general museum visitors. The BioMedTech exhibition places an emphasis on the science and technology of particular importance to Northeast Ohio. The exhibition is accompanied by educational programming, public programs, and wide dissemination around the region and within the Science Center world. This project reaches many visitors and garners national attention through dissemination efforts. Visitors to the exhibition and related programs come to better understand the connections between biology and technology while learning of science and engineering's role in improving the quality of life in our society.



Publications

**Magazines and Brochures • Reports
Research Resource Directories
Grant Program Fact Sheets • Manuals**

NCRR publications describe research and resource opportunities, highlight scientific advances supported by NCRR funding, and explain NCRR grant programs. These programs fund the research resources that, in turn, can be accessed by NIH-supported investigators nationwide. Send publication requests to info@ncrr.nih.gov or telephone the NCRR Office of Science Policy and Public Liaison at 301-435-0888.

MAGAZINES AND BROCHURES

- The National Center for Research Resources: Accelerating and Enhancing Research
- NCRR Reporter – Available by e-mail: NCRR Reporter electronic edition
- 2004-2008 Strategic Plan: Challenges and Critical Choices
- Linking Research to Healthy Living: National Primate Research Centers

FREE
Subscription to the
NCRR Reporter

See website for
additional information.
<http://www.ncrr.nih.gov/>

NCRR's Science Education Partnership Awards (SEPA)

NCRR's Science Education Partnership Awards (SEPA) are designed to improve life science literacy throughout the nation. These grants bring together biomedical and behavioral researchers, educators, community groups, and other interested organizations in partnerships to create and disseminate programs that give K-12 students and teachers and the general public a better understanding of life sciences.

NCRR's Division for Clinical Research Resources supports the SEPA program, which funds science centers and museums across the country.

Researchers who study human disease and illness can make major contributions to science education programs by passing on their knowledge and also demonstrating the excitement of carrying out health-related research. SEPA funding provides researchers the vehicle for conveying both their knowledge and appreciation of scientific accomplishments.

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