**Education and outreach activities within the SJCCC**
The SJCCC participates in extensive education, training and outreach activities to promote better understanding of the biology and treatment of childhood cancer. While SJCRH is not a degree-granting institution, we partner with local and international educating institutions to offer training across the spectrum of translational science. This enterprise is coordinated by the Academic Programs Office that focuses on the training of laboratory and translational scientists, and the Clinical Education and Training Office that oversee clinical professionals. These activities are further enhanced by the completion of our new 45,000 sqft **Global Education and Conference Center**. This brand new facility opened in 2014, and includes two state-of-the-art auditoria (seating for 424), 13 classroom and conference rooms, as well as a new Biomedical Library and collaboration areas.

(i) **Predoctoral education and training**: Predoctoral: Since 1978, our NCI-funded (R25CA23944) Pediatric Oncology Education (POE) Program has provided education and training in cancer research and clinical practice to 700 U.S. citizen predoctoral students, from 320 schools, in 34 states, Puerto Rico, and the District of Columbia. SJCRH has also established **University Partner Programs** with Rhodes College in Memphis, Paris 7 University in France, and Bath University in England to provide an in-depth experience in the biomedical sciences for gifted undergraduate science students and to motivate them toward a career in cancer research and treatment.

(ii) **Postdoctoral laboratory fellows**: During any academic year the APO coordinates the training of 280 postdoctoral fellows. The APO also coordinates several postdoctoral fellowship awards in the basic biomedical sciences that are largely administered through the SJCCC Programs, including: five programatically-aligned SJCCC Endowed fellowships; 12 institutionally funded APO Postdoctoral two-year fellowships; five endowed three-year fellowships; and the Morrison Biochemistry Fellowship. SJCRH also hosts Howard Hughes Medical Institute Fellows.

(iii) **Clinical training through the CETO**: **Sub-Specialty Physician Fellows**: The Center hosts a comprehensive program for training subspecialty fellows in pediatric hematology and oncology that includes an annual total of 26 Accreditation Council for Graduate Medical Education (ACGME) and non-accredited fellows. **Physician Scientist Training Program**: Each year since 1988 this highly successful program has provided three exceptional physician fellows with a two year extension to their fellowship. The program includes mentorship and laboratory time aimed at developing them as physician scientists. Six of these fellows are now SJCRH faculty. Each year, the SJCCC also trains four **Psychology fellows** as well as four second year **Pharmacy Residents** in advanced Pediatric Oncology Medication Safety, and Pharmacogenomics. **Resident Physicians**: 84 residents per year participate in rotations in Radiology, Pathology, Radiation Oncology, Neurology, and Surgical Oncology. **Medical students**: Each year, all 167 University of Tennessee (UT) M3 students spend a week of education and training within the SJCCC and an additional 30-35 M4 students from across the country spend one month rotations at SJCRH. Finally, CETO also coordinates a well-established Continuing Medical Education (CME) program that ensures members maintain their state medical licenses and to maintain certification in their specialty. Over the past five years, CME activities have been attended by 46,517 individuals and 6,750 individuals have attended SJCRH sponsored annual conferences.

(iii) **SJCRH Nursing Education**: SJCRH is a nationally approved provider of nursing contact hours as well as in-service training activities. Of particular note we host the annual Robbie Simpson Fellowship for the Advanced Practice Nurse in Pediatric cancer; our eight ONS-
approved chemotherapy experts train ~50 nurses per year across our catchment area; and we train nurses in the APHON Chemotherapy and Biotherapy Provider Course.

(iv) International Visitors Program: The International Visitors Program is run by the International Outreach Program. This service is specifically designed to train selected international healthcare professionals on the SJCCC campus in skills needed at their home institution. From 2008 to 2012, 363 international visitors were hosted at the SJCCC.

(v) The International Outreach Program (IOP): The goal of the IOP is to educate and train health care professionals, children with cancer and their families on key issues relating to the management of pediatric malignancy. There are presently 20 partner sites in 15 countries in the Middle East (Jordan, Lebanon), Central America (Costa Rica, Honduras, El Salvador, Guatemala), North America (Mexico), South America (Brazil, Chile, Venezuela, Ecuador) and others (Haiti, Morocco, Russia, Philippines). SJCCC members conduct education visits to these sites and use advanced telecommunications to link programs and professionals who learn from and assist each other. Most notable is our award winning Cure4Kids site.

St. Jude Cure4Kids (Cure4Kids.org): This education and collaboration website, developed and maintained by SJCRH and the IOP, is dedicated to supporting the care of children with cancer and other catastrophic diseases worldwide. The site is used by patients, families, educators and health care providers at the local, national and international level. The content includes more than 2,000 online seminars, 35 online self-paced courses, 35 instructor-led courses, and recorded sessions from 61 international conferences. Key educational resources include school lessons related to cancer education for children ages 8-11 hosted at the ‘Cure4Kids for Teachers’ portion of the site. Material is presented in a variety of languages. Since its inception in October, 2002, 6.1 million items have been downloaded from the site, including > 1 million items in the last 12 months.

Free group collaboration and online meeting rooms are available for holding web-based conferences, sharing documents, and discussing clinical treatments of children with cancer. Over 330 international groups use Cure4Kids meeting rooms for education and collaboration and Cure4Kids web conferences have been used 117,000 times since 2002. In 2011, the site hosted a total of 1,110 scheduled live meetings and ~90 web conferences per month. In addition, the SJCCC Tumor Boards and Leukemia and Lymphoma Conferences (Section 8) are broadcast live to several of our International Outreach sites. As of September, 2012, Cure4Kids has provided educational content to more than 33,000 physicians, nurses, and other healthcare professionals in 185 countries. 7,949 users are within the USA from all 50 states, including members of 64 NCI cancer centers. Cure4Kids generates educational content in collaboration with the International Union Against Cancer (UICC), the United Nations International Atomic Energy Agency (IAEA), and the International Society for Pediatric Oncology (SIOP). The site has received numerous awards including Gold at the 18th Annual Communicator Awards from the International Academy of Visual Arts.