MESSAGE FROM THE CHAIR

Dear Colleagues,

I am pleased to share with you our third Semi-Annual Newsletter on January-June 2011 department-wide updates and achievements. As we approach the latter half of the year, we have had excellent momentum and success in every Division, and I am delighted to highlight many of our recent Divisional activities in the clinical, research, and educational arenas, as well as pediatric advocacy in the community.

As the second largest department within the School of Medicine, the Department of Pediatrics is currently comprised of 21 Divisions with 202 faculty members, 58 residents, 3 chief residents, 35 post-doctoral fellows and 288 staff employees. We anticipate revenues for FY2011-12 to be approximately over $50 million for research and $53.2 million from clinical revenues.

Best Regards,

Gabriel G. Haddad, MD
Professor of Pediatrics and Neuroscience
Chairman, Department of Pediatrics
University of California San Diego
Physician-in-Chief and Chief Scientific Officer
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DEPARTMENTAL NEWS

Division of Allergy, Immunology and Rheumatology

CLINICAL
The Division continues to have a multi-specialty EE clinical service with increased clinics of 3 half days and 1 full day a month, as well as an updated real-time database that was developed together with UCSD CTSA. The current database holds approximately 400 patients. Dr. Keith Vaux, a RCHSD hospitalist, has joined the KD team to organize an online real-time surveillance for KD at 10 hospitals distributed along the West Coast and Hawaii. This is a unique project to engage hospitalists in an epidemiologic surveillance system that provides real-time feedback and information on regional disease activity. The Recurrent Fever Clinic continues to see fever patients, and has seen more than 160 fever patients in the last 3 years.

RESEARCH
The Division presently has 6 NIH supported research faculty - Drs. Burns, Hoffman, Aceves, Shimizu, Tremoulet, and Franco. The Division welcomes Dr. Shohei Ogata from Japan to study the mechanisms underlying KD, and Dr. Hariklia Eleftherochorinou, a biostatistician specializing in pathway analysis. Dr. Tremoulet recently published a review of Filipino KD patients in San Diego and Dr. Shimizu published a paper on the genetics of the TGFbeta pathway in KD subjects. In collaboration with investigators at the NIH, Dr. Hoffman’s group has recently identified a new disease gene that causes familial atypical cold urticaria, a disease we discovered a few years ago. The Division recently recruited Dr. Stephanie Leonard, a food allergy expert from Mt Sinai, to run the new Food Allergy Center.

EDUCATION
The Division is active in the training of medical and graduate students as well as post-doctoral researchers. This summer, there are 2 UCSD medical students conducting KD research funded by a SOM NIH training grant.

Division of Cardiology

CLINICAL
As the Division moved into the Acute Care Pavilion in October 2010, the opportunity to establish a Cardiovascular Intensive Care Unit arose. Although the medical and surgical outcomes are among the best in the nation, the Division believes that a CVICU will further enhance its outcomes and shorten LOS. The Division is currently developing an administratively autonomous Unit, and is actively recruiting a prospective Medical Director. The Unit is expected to be functioning in early 2012. In the catheterization laboratory, faculty continue to advance transcatheter and hybrid technology. Division members have recently developed a technique for the “off-label” use of Amplatzer PDA devices to close restrictive VSD’s with aneurysms. It is the first of its series and has recently been accepted for publication in Catheterization and Cardiovascular Intervention. In addition, with the cardiac surgeons, faculty members have developed a hybrid technique allowing
adjustment of surgically placed Main Pulmonary Artery Bands as growth occurs by catheter
techniques. This was published in *Pediatr Cardiol. 2011 Jan;32(1):8-16*. The Division was recognized by US News and World Report to be among the top 30 pediatric cardiovascular programs in the United States this year.

**RESEARCH**

Working with the Imaging Staff and the Biomechanical Engineering Department at UCSD, Dr. Tegman-Yarden is studying the fluid mechanics of blood and especially the characteristics of vortices which form in the ventricles. He is looking at various shunt lesions such as ASD and PDA to see how vortices change acutely with closure in the catheterization laboratory. These studies offer the potential to define new tools for accessing cardiovascular efficiency. Dr. Nigam is also collaborating with Biomechanical Engineering where he is using harvested human aortic valves in an in vitro model to study the differences in stresses encountered by bicuspid versus tricuspid valves. He has developed evidence to show that differential stresses are factors in accelerated calcification and degeneration of bicuspid valves. Dr. Grossfeld was awarded funding from the Children’s Heart Foundation to continue his work in Jacobsen Syndrome and the genetic basis of congenital heart disease.

**EDUCATION**

The Division has organized *Evolving Concepts in the Management of Complex Congenital Heart Disease III* in January 2012 here in San Diego. This is the Division’s third Symposium where the emphasis is on an expanded program featuring nationally prominent faculty, attracting over 200 attendees, mostly pediatric cardiologists, from all over the United States.

**Division of Child Development and Community Health**

**CLINICAL**

Developmental-Behavioral Pediatrics expanded their consultation clinic with a move into the Freshstart space in 7920 Frost Street, this April. Drs. Stein, Liu and Gahagan are ready to accept patients, from birth to 21-years old, with diverse problems in development and behavior including but not limited to: developmental delay; feeding, sleeping and crying problems of infancy; tantrums; hyperactivity; toddler behavior problems; bedwetting; ADHD; learning problems; and oppositional behaviors. General Pediatricians and Specialists are encouraged to refer to the DBP clinic. Referrals can be faxed to 858-246-0019.

**RESEARCH**

Since 2002, the Comprehensive Research Center in Health Disparities (NIH NIMHD P60), under the direction of Dr. Daley and Dr. Reznik, now includes 56 researchers/scientists (52% minority) who have obtained 39 NIH research grants ($17.9 million) and published 105 peer-reviewed articles on minority health and health disparities, over the last academic year. Dr. East published a study in *Demography* that showed that an unwanted birth negatively affects the existing children in the family. Dr. Gahagan and her international team, working on NIH HLBI-funded project, Biopsychosocial Determinants of Adolescent Obesity, presented 11 abstracts at the 2011 Pediatric Academic Societies meeting, focusing on 4 areas: early life and risk for later obesity; metabolic functioning; social determinants and parenting influences; and sleep patterns and obesity. Dr.
Zúñiga has 4 new manuscripts published or in press since December 2010, including one in *AIDS and Behavior*, “Correlates of patient-initiated changes to antiretroviral therapy regimen among HIV-positive Latinos living in the Tijuana/San Diego Mexico-US Border Region.” Zúñiga’s postdoctoral fellow, Fatima Muñoz, presented this work at the 2011 United States-México Border Binational Infectious Disease Conference.

**EDUCATION**

The Developmental-Behavioral Pediatrics 3-year ACGME-approved fellowship began on June 30, 2011. The Division welcomes its 2 first-year fellows: Scott Brown M.D. and Chad Huebner, M.D. The Community Pediatric rotation, under the direction of Nancy Graff, M.D., initiated a new partnership with the San Diego Adolescent Pregnancy & Parenting Program (SANDAPP), a San Diego Unified School District affiliated program that addresses teen pregnancy and parenting together with over 40 existing partnerships serving this resident educational program. Dr. Zúñiga was awarded a training grant from the DHHS Hispanic Serving Health Professions Schools (HSHPS) for the fifth consecutive year. This program has supported 14 trainees to date, including Muñoz who is currently on a minority supplement and preparing a Mentored Career Development Award Application.

**Division of Dermatology**

**CLINICAL**

The Division’s clinical service continues to grow, with a rate of over 17,000 ambulatory visits a year at the Rady Campus office as well as the Encinitas, Escondido and Murrieta satellites, with over 600 surgical and laser procedures. The Vascular Lesion and Birthmark Center, under the leadership of Sheila Fallon-Friedlander, has expanded its multidisciplinary services, including an expanded laser program for refractory vascular birthmarks and other congenital and acquired dermatological conditions. Dr. Eichenfield is co-chairing a National Guidelines for Pediatric Acne Initiative; Drs. Friedlander, and clinical fellows Andrew Krakowski and Caroline Piggott, are participating experts.

**RESEARCH**

Dr. Wynnis Tom has received a five-year NIH K23 award to study the genetic influence of pediatric psoriasis. This expands her inflammatory skin research, which includes leading a multicenter study of systemic therapy in atopic dermatitis. She was also appointed to the American Academy of Dermatology (AAD) Atopic Dermatitis Guidelines Task Force. Dr. Lawrence Eichenfield delivered the keynote address at the International Atopic Dermatitis Therapeutic Education conference, held in Rome, Italy, and is one of the creators of a multicenter collaborative research program for pediatric dermatology, PEDRA (PEdiatric Dermatology Research Alliance). Dr. Eichenfield also served on the NIH/NIAID Food Allergy Guidelines Expert Panel and Oversight Committee; the guidelines were published over the last several months. Dr. Magdalene Dohil represented North American centers at the international “Harmonization of Outcomes Measures of Eczema” (HOME) meeting, and presented center data and experience at the International Society of Atopic Dermatitis. Dr. Catalina Matiz, former research fellow and present resident in UCSD Dermatology, won the Society for Pediatric
Dermatology Weston Research prize to fund research on staphylococcal aureus colonization in atopic dermatitis. Dr. Sheila Fallon Friedlander, is now President-elect of the Society for Pediatric Dermatology. Over 60 papers and textbook chapters have been published by the Division over the past year.

**EDUCATION**

Dr. Victoria Barrio, Division Education Coordinator, was invited faculty for the Alabama Dermatology Society and is directing sessions at the AAD National Summer meeting. She will also be co-directing with Magdalene Dohil the Society for Pediatric Dermatology session at the upcoming Annual AAD meeting. Dr. Wynnis Tom was awarded the prestigious Robert Goltz Teaching Prize of the UCSD Division of Dermatology. Dr. Friedlander has chaired the Skin Disease Education Foundation “Women’s and Pediatric’s Dermatology Seminar,” a national CME meeting held annually in September, as well as the Advanced Pediatric Dermatology Course at the AAD annual meeting.

**Division of Dysmorphology/Teratology**

**CLINICAL**

The Division continues active participation in clinical activities at birthing hospitals throughout San Diego County and at a twice-weekly clinic at Rady Children’s Hospital. We also participate in a monthly Dysmorphology/Genetics clinic in Tijuana at the Hospital Infantil de las Californias where we see patients with birth defects from throughout northern Mexico. Four to six medical students from Mexico attend each of the clinics as well as a Mexican neonatologist.

**RESEARCH**

The Division continues to work actively in the area of Fetal Alcohol Spectrum Disorders Research throughout the world. In the last six months, Division faculty have worked with NIH-NIAAA to design a prevalence study in South Korea, and have consulted with the World Health Organization to design a WHO funded multi-country effort to measure regional or national patterns of maternal alcohol exposure and develop country-specific estimates of the number of affected children. We continue work on this issue in multiple countries. The Division also continues to conduct federally and commercially funded studies on autoimmune diseases in pregnancy, H1N1 and seasonal influenza vaccine in pregnancy and asthma medications in pregnancy. The Division leads the National Children’s Study site for San Diego County, and at the end of 2010 received NIH authority to launch recruitment for this landmark study.

**EDUCATION**

The Division’s California Pregnancy Health Information Line continues to educate the public throughout California on prenatal exposures and risk to the developing fetus. In recent months, we have expanded this effort to multiple channels of communication and will launch the first web-based live “chat” service this month. Skaggs School of Pharmacy and Pharmaceutical Sciences students, medical students, and pre- and post-doctoral epidemiology students have rotated through the Division on a regular basis working on research projects or independent study.
Division of Emergency Medicine

CLINICAL
In 2011, the Division provided emergency care to over 71,000 children at the main RCHSD campus and over 30,000 patients at the 3 urgent care centers. The Division offers the only Level 1 Pediatric Trauma Center in San Diego County. Over 90 trauma patients are seen a month who are severely injured from automobile accidents, falls over 10 feet, pedestrian or automobile accidents, and other mechanisms of serious injury. These cases account for over 50% of the RCHSD hospital admissions. The Division currently employs 14 pediatric emergency medicine physicians, 5 pediatric intermediate care physicians, 11 Urgent Care pediatricians, and 9 nurse practitioners or physician assistants. The Division recently hired two new pediatric emergency physicians and is doing a national search for a Division Chief. Dr. Jim Harley and Dr. Marc Etkin are the interim Division and Clinical Directors. Dr. Kathy Konzen is the present Urgent Care Director. A new Urgent Care site opened in Oceanside this past spring. The Division has three other sites at Escondido, Mid-City, and La Mesa. This year the Emergency Department made its goal of reducing the ‘left without being seen’ rate less than 3% and decreasing throughput times by 5%. The Division purchased a new nitrous oxide machine this year to help reduce patient anxiety and pain during pediatric procedures.

RESEARCH
Dr. Kanegaye continues to work with Dr. Burns on a NIH-funded Kawasaki’s disease study. Currently, there are two ongoing prospective clinical studies in the treatment of minor head injuries. The first study is examining the effect of hypertonic saline on the symptoms of concussion and the second is looking at the effect of Zofran on vomiting associated with minor head injury.

EDUCATION
The Division trains 2 fellows a year in Pediatric Emergency Medicine (for a total of 6 fellows). Dr. Paul Ishimine directs the fellowship program. The fellowship just received a 5 year accreditation from the ACGME. Faculty members continue to train pediatric residents and adult emergency medicine residents from UCSD and the Navy. Dr. Seema Shah is the education coordinator. This year 170 residents and 20 medical students rotated through the ER.

Division of Endocrinology

CLINICAL
The Division of Endocrinology and Diabetes continues to provide care to children in San Diego, Imperial and Southern Riverside Counties. This past year there were over 8,000 patient visits to the endocrine, diabetes and lipid clinics. The Division has expanded its services in the Escondido, Murrieta, Encinitas and Oceanside. The diabetes program serves over 1,000 children and has a comprehensive program for insulin pump therapy and use of continuous glucose sensors. Recently a diabetes high risk clinic was started to assist those patients with very poor diabetes control. The Division is involved in three clinical trials regarding immunomodulation of type 1 diabetes and two novel therapeutic trials for adolescents with type 2 diabetes.
RESEARCH
Dr. Jane Kim and colleagues discovered that an evolutionary gene mutation millions of years ago resulted in our subsequent inability to produce a specific kind of “sialic acid” molecule. This change appears to make people more vulnerable to developing type 2 diabetes, especially if they are overweight. The findings were published in *The Faseb Journal*. Dr. Ulupi Jhala and colleagues report how “Mixed Lineage Kinase-3 Stabilizes and Functionally Cooperates with TriTRIBBLES-3 to Compromise Mitochondrial Integrity in Cytokine-induced Death of Pancreatic Beta Cells” in the *Journal of Biological Chemistry*. The journal cover features a haunting image of a beta cell under attack as photographed by the scientists. Dr. Maike Sander and colleagues published a paper in the February 2011 issue of *Development*, “Sox9+ ductal cells are multipotent progenitors throughout development but do not produce new endocrine cells in the normal or injured adult pancreas.”

Sander was elected to the America Society for Clinical Investigation, and was also awarded a prestigious $4,950,000 grant to be shared by Karl Willert of the UC San Diego Stem Cell program. Dr. Charles (C.C.) King was one of eight UC San Diego researchers to receive a basic biology award from CIRM. Dr. King’s lab will use the $1.3 million project funding to examine the role of microRNAs in stem cell differentiation, specifically in cells of endocrine lineage. Dr Abigail Fruzzi, a second year pediatric endocrinology fellow was awarded a CIRM fellowship for her studies in identifying the transcriptional code for generating functional b-cells from hESCs-derived pancreatic progenitors *in vitro*.

EDUCATION
Dr. Jinhua Shao was an invited speaker at Peking University, Beijing, China in June to discuss adiponectin and fetal fat deposition. Dr. Maike Sander, MD was an invited speaker at the Annual Meeting of the Society for Developmental Biology in Chicago, The Beta Cell Biology Consortium in Washington D.C., the Annual Meeting of the American Association of Anatomy in Washington D.C., and at the EASD/JDRF Joint Strategic Meeting in Barcelona, Spain, discussing the molecular and cellular mechanisms that control stem/progenitor cell maintenance and differentiation in the embryonic and adult pancreas. Dr. Alberto Hayek was an invited speaker at the 13th World congress of International Pancreas and Islet Transplant Association. Prague, Czech Republic describing enhanced pancreatic endocrine differentiation of human pluripotent stem cells following pharmacological inhibition of select kinases. He was also the Keynote Speaker on Islet stem cells in diabetes cell therapy in Calí, Colombia.

Division of Gastroenterology

CLINICAL
Dr. Ariel Feldstein has started his work at RCHSD as the new Division Chief on July 1st. Feldstein joins the Department of Pediatrics from the Cleveland Clinic in Cleveland, Ohio, where he was the Director of Research for the Pediatric Institute. He is highly regarded as a leading physician scientist in the field of Pediatric Hepatology. Dr. Feldstein’s clinical expertise is centered on metabolic and autoimmune chronic liver diseases. Under Feldstein’s leadership, the Division will continue to expand its clinical services including the development of two new Centers of Excellence - a Motility Center and an Inflammatory Bowel Disease Center. Additionally, the Division will expand its ability to provide comprehensive care for children and adolescents with diverse disorders involving the digestive tract and liver, including diagnostic and therapeutic
endoscopies, living-related and cadaveric liver transplantation, liver diseases, obesity, wellness and nutrition, eosinophilic esophagitis, motility disorders, parenteral and enteral nutritional supplementation, as well as disorders of the pancreas and gallbladder. The Division has continued to increase its clinical coverage and is currently providing services at five different locations including RCHSD-main campus, Escondido, Encinitas, Murietta, and Oceanside.

RESEARCH
With now more than $8 million in external research funding relating to gastroenterology, hepatology, and nutrition, the Division is a growing national leader in generation of new knowledge relating to the field being at the forefront of scientific research in areas such as obesity and its metabolic complications, chronic liver diseases including steatohepatitis, as well as intestinal biology and immunology. In addition to on-going clinical trials and research projects, Dr. Feldstein brings a large research program focused on dissecting the crosstalk between cell death and inflammation in liver damage and fibrosis associated with chronic liver disorders.

EDUCATION
The Division continues to expand its teaching activities. Dr. Sherry Huang continues her work as the Pediatric Residency Director. Dr. Jeannie Huang is Chair of the Obesity Task Force at NASPGHAN. Dr. Schwimmer has been invited to give Pediatric Grand Rounds at UCLA and was an invited speaker at the Annual Meeting of the American Society for Microbiology. Dr. Huang was an invited speaker at the Maintenance of Certification Forum, NASPGHAN Annual Meeting, and an invited Keynote Speaker, at the 4th Annual Nutrition Symposium at Seattle Children’s Hospital.

Division of General Academic Pediatrics/Adolescent Medicine

CLINICAL
The General Academic Pediatrics and Adolescent Medicine Clinics offers comprehensive well, sick and chronic care for all children from infancy through adolescence, and averages 1,500 visits per month. Directed by Dr. Pickering, the Rady Children’s Hospital Special Needs Clinic provides a medical home to medically fragile children from San Diego, Imperial and southern Riverside counties. The Clinic currently follows 300 medically fragile patients, and conducts approximately 60 visits per month. The Premature Infant Nutrition Clinic, directed by Dr. Boies, sees 25 patients per month. Joyce Adams M.D. And Karen Loper M.D. are participating as co-medical directors in Rady Childrens Hospital new inpatient eating disorder unit. In conjunction with UCSD Child/Adolescent Psychiatry this new program offers the only comprehensive inpatient setting caring for medically unstable children and adolescents with eating disorders.

RESEARCH
Dr. Boies presented a poster at the Pediatric Academic Society meeting in May on the nutritional status of breastfed post discharge premature infants. Dr. Adams also presented at PAS and participated in a panel session on child abuse pediatrics. Dr. Boies’ on-going Premature Infant Nutrition Clinic (PINC) project continues to actively collect information on the nutritional needs of premature breast-fed infants. In collaboration with the Division of Neonatology, Dr. Boies, along with a lactation consultant, evaluate breast-fed premature infants discharged from UCSD and
other regional Neonatal Intensive Care Nurseries. Dr. Leff is involved with the National Children’s Study, a multi-year research grant designed to collect longitudinal data on children to evaluate health outcomes.

EDUCATION
Lindia Willies-Jacobo M.D., Lori Wan M.D., Karen Loper M.D. And Nancy Graff M.D played a major role with UCSD School of Medicine as it re-organized the medical school curriculum to begin utilizing patient based learning. All Division faculty members were involved in significantly designing or teaching the new PBL curriculum.

Division of Genetics

CLINICAL
The clinical activity of the Genetics Division has made it one of the most popular electives for rotating residents. The Division holds a monthly Clinical Genetics Conference to review unusual and noteworthy teaching cases that our network of Genetics Attending Physicians have seen in their clinics during the preceding month. Clinical geneticists and genetics counselors from RCHSD, UCSD, Balboa Naval Hospital, and Kaiser Permanente are regular participants, as well as medical students and fellows who are rotating through the genetics elective. Dr. Nyhan attended the Saturday, June 11, 2011, meeting of the Reunion du Conseil Scientifique de l’association Francaise Lesch-Nyhan Action Maladie Genetique in Paris at Broussais hospital. While in Paris, Dr. Nyhan saw a number of patients and counseled families there; another meeting is scheduled for 2 years hence.

RESEARCH
Dr. Robert Naviaux’s work on the connection between mitochondrial dysfunction and autism was awarded one of just 3 national Trailblazer Awards by the largest non-federal granting agency in autism research, Autism Speaks. Dr. Schneider was awarded the 2011 Dickson Award. In the Journal PLoS One, Jan 28, 2011, Dr. Theodore Friedmann published new findings on the genetic cause of compulsive and self-injurious behavior in Lesch-Nyhan disease. Two pathways found to be defective in LND are known to be associated with other neurodegenerative disease, such as Alzheimer’s and Parkinson’s diseases, suggesting common causes of cognitive and behavioral defects in these neurological disorders. In Neuron, June 22 issue, Dr. Albert La Spada recently identified the mechanism contributing to the transcriptional dysregulation in Spinocerebellar ataxia 7, an inherited neurological disorder. Published in the June, 2011 issue of Human Molecular Genetics, Dr. Alysson Muotri reported evidence of reduced levels of the VAPB protein which may play a central role in causing inherited amyotrophic lateral sclerosis (ALS).

EDUCATION
Dr. Naviaux and Dr. Barshop have developed a new set of lectures on genetics and metabolism for Chris Glass’s SOMC-229 ERM course on Endocrinology, Reproduction, and Metabolism. This is the first year that this new course has been offered, and the metabolism lectures received high marks from the students. During the spring 2011, Dr. Theodore Friedmann has continued presentations of the long-standing Human Gene Therapy Seminar series. He has also continued to
serve as chairman of the genetics panel of the World Anti-Doping Agency.

**Division of Genome Information Sciences**

**CLINICAL**
The Division of Genome Information Sciences is working at the Moores UCSD Cancer Center to establish a clinical sequencing program aimed at delivering personalized cancer care to pediatric and adult patients. We are active participants in the STOP CANCER project at the Moores Cancer Center. STOP CANCER is an acronym for Sequence ThOusand Patients with CANCER. Over the next two years, scores of scientists, doctors and others will genetically map and monitor the condition and treatment of 300 patients with metastatic cancer at the UCSD Moores Cancer Center, with plans to expand to 1,000 patients over the next five years. These are patients with advanced cases of their disease. When the project concludes, the researchers and clinicians hope to have created an enormous and unprecedented database of cancer/DNA data linked to clinical outcomes and to offer novel therapies targeted for specific tumor defects. As part of the STOP CANCER project we have formed a collaboration with the Center for Personalized Cancer Treatment (CPCT) in the Netherlands. The project is being funded in part by philanthropic efforts and in part by the UC Medical Center due to the importance of this initiative for the institution.

**RESEARCH**
Researchers in the Genome Information Sciences Division have recently published two scholarly articles, largely involving genomic methods to improve identification of variant DNA bases and assemble genomes. Published in February 2011, a *Nature* paper authored by Harismendy et al. focuses on the identification and analysis of enhancers in the 9p21 gene desert associated with coronary artery disease and Type 2 diabetes. A second paper also published in February 2011 is on analyzing RNA-Seq for gene fusions. The Division has received NIH funding for four new collaborative studies with members of the UCSD Pediatrics Department. We have funding to work with Dr. Christina Chambers on the National Children’s Study, with Dr. Joe Gleeson on structural defects, with Dr. Bruce Barshop on genetic factors underlying a metabolic deficiency and with Dr. Stephen Spector on genetic factors underlying cognitive impairment in HIV-infected children.

**EDUCATION**
The Division is active in the training of medical and graduate students as well as post-doctoral researchers. For the summer of 2011, the Division is training five graduate students in genomic data analysis and one postdoctoral researcher.

**Division of Hematology/Oncology**

**CLINICAL**
The Hematology/Oncology Division has comprehensive, multidisciplinary clinics in the following areas: Hematopoietic Stem Cell Transplantation, Hemophilia and Thrombosis, Long Term Follow-up of Cancer Survivors, Neuro-Oncology, and Sickle Cell Disease. Dr. Deborah Schiff was the recipient of the Emilio Nares Foundation 2011 Excellence in Pediatric Oncology Award. Three new pediatric hematology/oncology faculty members will start in August and September 2011: Dr.
Andrew Dietz, from the University of Minnesota, Dr. Justine Walker from UCLA, and Dr. Janet Yoon from UC Davis.

**RESEARCH**

Dr. Jenny Kim was the recipient of the Combined Health Agencies 17th Annual Health Heroes Awards on March 16, 2011, honoring local businesses, medical professionals, and media personalities for their contributions, dedication and commitment to better health for all San Diegans. The RCHSD Sickle Cell Disease Program was given this award by the Sickle Cell Disease Association of America, San Diego Chapter, for their dedication to the care of children with sickle cell disease. Dr. Jenny Kim was awarded a UCSD Health Sciences Clinical and Translational Research Institute (CTRI) innovative technology pilot project for 2011-12 for her project “Biomarkers of Sickle Cell Disease”. Through the Neuroblastoma & Medulloblastoma Translational Research Consortium, Dr. William Roberts is a study committee member for a Feasibility Trial using Molecular-Guided Therapy for the Treatment of Patients with Refractory or Recurrent Neuroblastoma, the first personalized medicine clinical trial in pediatric oncology.

**EDUCATION**

Dr. Amy Geddis presented this spring at the International Society of Laboratory Hematology, presentation entitled, “Congenital thrombocytopenia”, and Platelet Disorder Support Association meeting, presentation entitled, “ITP, does it run in the family?” Two new pediatric hematology/oncology fellows will start in July 2011: Dr. Jennifer Yu, who completed her pediatric residency at UCSD, and Dr. Sun Choo, who completed her pediatric residency at UCLA.

**Division of Hospital Medicine**

**CLINICAL**

The Division provides clinical care for hospitalized children at the Rady Children’s Hospital main campus as well as Sharp Grossmont Hospital and Palomar Medical Center. In addition to the core hospital medicine mission, the division provides medical care to children in a variety of settings with unique needs. These patient populations include abused and neglected children, pregnant and parenting teens, incarcerated youth, children with severe emotional disturbances and those requiring skilled and sub-acute nursing care. In addition, Dr. Doshi directs the palliative care consult service and Dr. Wright participates in the ethics consult service.

**RESEARCH**

Seven papers, chapters or abstracts have been published or accepted in the past six months addressing pediatric emergency care, patient safety, ventilation and intubation, workplace environment and stress, and end of life. Areas in ongoing research include bronchitis, child protection, complicated skin infections and hospital re-admission.

**EDUCATION**

The hospitalists are the primary teaching faculty for all medical students and residents rotating on the RCHSD inpatient teaching service. Our faculty provide over 200 faculty hours per week teaching on the RCHSD inpatient service. The pediatric clerkship, under the leadership of Dr. Chris Cannavino continues to attract medical students to the field of pediatrics. Division members serve as pediatric resident advisors, fellowship directors, conference coordinators, rotation
directors and participants in the pediatric residency selection process. An ongoing, annual educational program in quality improvement led by Dr. Erin Fisher has graduated 27 residents and 18 fellows in the past 6 months at the certificate level. An additional 35 residents and fellows are in the process of completing the course. The Division has 3 hospital medicine fellows this year under the direction of Dr. Fisher, where Division members participate in the fellow core curriculum series addressing topics such as advocacy, ethics, health information technology and the business of medicine. Additionally, Division members provide education locally, nationally and internationally on a variety of topics.

Division of Pediatric Infectious Diseases

CLINICAL
The Division of Pediatric Infectious Diseases continues to provide in-patient and out-patient consultative services at Rady Children’s Hospital and the community. Outpatient activities include twice weekly Infectious Diseases clinic, a weekly clinic for HIV-infected children and youth and a bi-weekly TB clinic at the Department of Public Health. Dr. Mark Sawyer directs San Diego County’s Immunization Program. Dr. Rolando Viani is the medical director for the UCSD-Tijuana Bi-National Program for HIV-infected children.

RESEARCH
Dr. Bradley is involved in phase I through phase IV clinical trials of antibacterials, antifungals, and non-HIV antivirals, and currently focuses on novel therapies for CA-MRSA. Dr. Leake is currently collaborating with the UCSD Department of Medicine and Scripps Translational Science Institute on a leptospirosis immunogenetic susceptibility project. Other recent work includes a collaboration with UCSD and The Scripps Research Institute on the study of the genetic basis of Plasmodium vivax chloroquine resistance in Indonesia. Dr. Pong is currently participating in collaborative studies defining the cellular immune responses of children with acute and latent tuberculosis infections. Current research includes studying the efficacy of an interferon gamma assay to detect tuberculosis infection in children. Dr. Spector recently identified an important role for autophagy in HIV pathogenesis, and is examining the ability of vitamin D3 (an inducer of autophagy) to inhibit both HIV and Mycobacteria tuberculosis. His ongoing projects include the examination of genetic determinants for the risk of HIV mother-to-child transmission and disease progression in children, and pharmacogenetics of antiretrovirals and other compounds.

EDUCATION
The Division of Pediatric Infectious Diseases continues to be actively involved with teaching medical students residents and fellows. Additionally, Dr. Spector has been involved with revising the Microbiology curriculum for 1st and 2nd year medical students. Dr. Sawyer continues to be co-organizer of the Department of Pediatrics/RCHSD highly successful Grand Rounds program.
**Division of Neonatology (Rady Children’s Hospital, San Diego)**

**CLINICAL**
For the 4th year in a row, the Division-led RCHSD NICU has been ranked among the nation’s best by U.S. News and World Report. Additionally, the Division has been recognized for its infection control measures resulting in well over a year without a central line infection. This is an impressive accomplishment considering the patient population includes the most complex infants in San Diego and Imperial Counties. Dr. Denise Suttner, ECMO Director, continues to lead the team as a recognized ECMO Center of Excellence. The Division of Neonatology has a full-time faculty of 14 board-certified neonatologists and 7 neonatal nurse practitioners providing state-of-the-art neonatal services to NICU’s within the RCHSD, Scripps, and Palomar/Pomerado Healthcare Systems (96 neonatal beds total). In 2010 there were 1959 total admits. Dr. Brian Lane provides medical and neuro-developmental evaluations of high-risk infant graduates from the NICU’s serviced by the Division. On October 10th the NICU at RCHSD moved into the newly constructed LEED-certified ‘green’ Acute Care Pavilion (ACP). The new NICU offers mostly private rooms to the families that now have 24/7 access to their babies in support of family centered care.

**RESEARCH**
Dr. Denise Suttner has just authored a chapter in the most recent edition of ECMO: Extracorporeal Cardiopulmonary Support in Critical Care. Within the past year the Division has published in *Journal of Perinatology* and *The American Journal of Human Genetics*. Dr. Amy Kimball is the Principal Investigator for a Multi-center Trial for iNO use to Prevent Premature Chronic Lung Disease and Dr. Gail Knight is the Principal Investigator for Impact of Music on Physiological Measures of Stress in Neonates in the Neonatal Intensive Care Unit.

**EDUCATION**
Planning is underway for the 21st Annual RCHSD ECMO Training Course. The Division faculty is also preparing for the 27th Annual Conference: The Fetus and Newborn State of the Art Care to be held in Las Vegas in October this year with Dr. Michael Segall as the co-chair. In collaboration with the Academic Division at UCSD, Hillcrest, Division faculty educate 9 Neonatal fellows. Dr. Mark Speziale had a poster presentation on Central Line-Associated Blood Stream Infections in the NICU: A Quality Improvement Project at the CCS/NICU Improvement Collaboration. The Division faculty is invited presenters locally, nationally and internationally at such conferences as the 27th Annual Children’s National Medical Center Symposium on ECMO & Advanced Therapies for Respiratory Failure, Annual Regional Congress of Northeast Neonatology, March of Dimes, Congreso Regional de Neonatologias Del Noreste, in Baja California, Mexico, National Neonatal Medicine Conference, Hawaii ECMO Conference.

**Division of Neonatology (UC San Diego)**

**CLINICAL**
The planning for the development of a new Neonatal Intensive Care Unit for the UCSD Medical Center to be sited at the Jacobs Medical Center is continuing with active discussions regarding the
final physical layout and planning for critical equipment and support needs. The new facility will be available for occupancy in early 2016. Our new unit will include plans for an in-unit MRI as well as in-unit operating/procedure room and adequate space to support Family Centered Care.

RESEARCH
Research in resuscitation has continued to progress. Division faculty have published additional studies on the use of a carbon dioxide disposable sensor and demonstrated that airway obstruction is very frequent in the extremely low birthweight infant (Finer et al, Pediatrics, 2009 Mar;123(3):865-9). The newest iteration of the NRP guidelines (2011) now uses the duration of 30 seconds for intubation, as reported in a number of studies, and the use of targeted SpO2 during resuscitation which the Division was the first to pioneer in the United States. Dr. Evan Snyder generated and tested the efficiency, safety, engraftability, and therapeutic utility of induced conditional self-renewing progenitor (ICSP) cells derived from the human central nervous system (CNS). Snyder’s results were published in an article entitled, “Self-renewal induced efficiently, safely, and effective therapeutically with one regulatable gene in a human somatic progenitor cell,” in the March 22, 2011 issue of PNAS.

EDUCATION
The Infant Special Care Center at UCSD remains the core teaching unit for pediatric residents and is the lead program for our Neonatal-Perinatal Training Program. In addition, Division Faculty continue to work with other facilities to help train neonatal nurse practitioners, nurses, and respiratory therapists. The Division continues to provide a 4-week resuscitation simulation training program for all pediatric residents. In the past 6 months, Division members were active at the Pediatric Academic Societies’ Conference and have been invited participants at educational symposiums in Sweden and Germany.

Division of Pediatric Nephrology

CLINICAL
In April, the Nephrology Division took a major step towards the development of the Comprehensive Kidney Care Center by moving into their new clinical space adjacent to the planned hemodialysis and apheresis center. The Division added a third weekly Kaiser half-day clinic - pushing the group outpatient clinic total to over 15 half day clinics per week. Two more half-day clinics will be added in September. Kidney transplant protocols have been updated and new continuous renal replacement therapy (CRRT) orders were successfully created by the PICU and Nephrology groups. The new CRRT orders make it possible to use safer commercial dialysate and replacement fluids which can be used immediately for emergent situations.

RESEARCH
Dr. Robert Mak’s laboratory recently showed that Vitamin D receptor activation suppressed inflammation and reversed cachexia in a mouse model of chronic kidney disease leading to improvement in survival. These new data were presented as an oral abstract at the annual meeting at the American Society of Nephrology in November 2010. Furthermore, Dr. Mak’s research group also showed that ghrelin suppressed inflammation and reversed cachexia in a mouse model of chronic kidney disease. These latter data were presented as an oral abstract at the annual
meeting of the Pediatric Academic Society May 2011. Dr. Wilson Cheung obtained a 3-year research grant from the Satellite Health Care Foundation on his research project entitled “The impact of ghrelin on nutrition and cardiovascular mortality in chronic kidney disease.” Dr. Mak obtained a research contract with BiolineRx on “Evaluation of novel peptides for the treatment of cachexia in chronic kidney disease.”

EDUCATION

Drs. Yorgin and Mak co-hosted the annual meeting of the Western Society of Pediatric Nephrology meeting in San Diego in February 2011. They were also speakers at this CME meeting. Dr. Ingulli was an invited speaker at the annual meeting of the Pediatric Academic Society May 2011. The fellowship program took an important educational step by starting a new weekly Nephrology Fellows clinic, complete with a pre-clinic teaching session. The Division welcomes its new first year fellow, Elliot Perens, MD PhD from UCSF.

Division of Pediatric Neurology

CLINICAL

A separate neonatal neurology service has been created within the Division of Pediatric Neurology. Faculty members with special interest and expertise in neonatal neurology continue to provide coverage for the 3 major NICUs at Rady Children’s, UCSD Medical Center, and Sharp Mary Birch Hospital. The Division recruited an additional child neurologist, Dr. Sonia Wang, with expertise in clinical neurophysiology and neonatal neurology. She will begin her clinical activities in September 2011.

RESEARCH

In the first 6 months of 2011, 18 peer-reviewed publications were authored by 7 Division members. Dr. Doris Trauner was featured in WebMD on adolescent brain development.

EDUCATION

Division members continue to teach actively in the clinic, on the wards, and in the lab. Students from several different universities, including the Robert Wood Johnson Medical School, Johns Hopkins University, and UC Santa Barbara, have conducted research in our labs this summer.

Division of Pharmacology & Drug Discovery

CLINICAL

Drs. Brookie Best and Edmund Capparelli continue to provide Therapeutic Drug Monitoring consultations for dosing of antiretroviral drugs in HIV-infected patients and research subjects locally, nationally and internationally, completing approximately 200 such clinical consultations in the latter half of 2010. Dr. Adriana Tremoulet is one of two physicians at RCHSD that cares for all children with KD (approximately 1200 families in total and 80-90 new patients/year) in both the inpatient and outpatient settings.

RESEARCH

In the 6-month period from January - June 2011, Faculty Members of the Division published 51
new manuscripts in the peer reviewed literature in journals including Nature, Nature Immunology, Immunity, Pediatrics, Journal of Pediatrics, Journal of Biological Chemistry, AIDS, PLoS Pathogens, Molecular Microbiology, Antimicrobial Agents & Chemotherapy, and Journal of Infectious Diseases. Dr. Nizet is the principal investigator of a new 5-year $750,000 per year NIH/NIAID grant to explore boosting innate immune function in the therapy of antibiotic resistant bacterial infections and co-PI of a new $350,000 per year NIH/NIAID grant to study the mechanisms of invasive streptococcal infection. Dr. Capparelli is the Chair of the Pharmacometrics Core for the NIH/NICHD Pediatric Trials Network (PTN) 7-year, $90 million contract for conducting pediatric clinical trials under the Best Pharmaceuticals for Children Act (BPCA), a consortium led by Duke University. Dr. Tremoulet received the prestigious Hartwell Individual Biomedical Research Award providing $300,000 total support for a project to discover biomarkers for Kawasaki Disease. Dr. Capparelli and Dr. Nizet are co-PIs of a new NIH/NICHD $500,000/year Center Grant Proposal entitled "Developmental and Translational Pharmacology of Pediatric Antimicrobial Therapy" that received an superbative score in the peer review process. Other investigators in this new Center include Dr. Best, Dr. Tremoulet, Dr. George Sakoulas, Dr. Steven Rossi and Dr. Sanjay Nigam.

EDUCATION
Dr. Brookie Best directed the summer research training program for student pharmacists at UCSD. Along with supporting 5 student trainees in maternal and pediatric pharmacology on the first year of the T35 Training grant from NICHD, the program continued to expand with 27 pre-doctoral pharmacy trainees completing projects in the second half of 2010, supported by additional NIH grants, several different pharmaceutical companies, and the UCSD CTRI. Dr. Edmund Capparelli is Director of a joint UCSD/Pfizer Post-doctoral Fellowship program in Clinical Oncology. Dr. Nizet is Director of the Microbiology/Immunology Track in the UCSD Biomedical Sciences Graduate Program and Chair of Admissions for the UCSD Medical Scientist Training Program. Dr. Tremoulet led the first international forum on Kawasaki Disease at the Latin American Pediatric infectious Disease Conference in the Dominican Republic.

Division of Rehabilitative Medicine

CLINICAL
Dr. Skalsky has successfully recruited Dr. Wendy Lin, who will join the Division in September 2011. In addition, due to overwhelming demand for patient services, the Division has also added Chrystal Madren, CFNP to assist in both inpatient and outpatient clinical duties. There continues to be long waitlists for clinic and additional expansion in the future is anticipated.

RESEARCH
Dr. Andrew Skalsky continues to participate as an invited reviewer for several peer review journals as well an author for book chapters in rehabilitation medicine. There is expected growth in spasticity and muscle disease clinical trials.

EDUCATION
The Division has participated and presented in several RCHSD sponsored CME events as well as national meeting presentations in Physical Medicine and Rehabilitation. The Division continues
to support residency training education by participating in residency didactic series as well as clinical education of both medical students and residents.

**Division of Respiratory Medicine**

**CLINICAL**
The Division has been ranked in the U.S. News and World Report ranking of Top Children’s Hospitals in Pulmonology for the 3rd year in a row. Three of the Division’s physicians were listed once again among the Best Doctors in America (Haddad, Hagood, Pian). RCHSD opened a new sleep lab this spring. Dr. Julie Ryu, who is now devoting her full time to clinical care, has started a new clinic for follow-up of preterm infants with chronic lung disease, and Dr. Hagood is launching a new Diffuse/Interstitial Lung Disease Referral Program beginning 9/1/11. RCHSD will be among the first U.S. sites to participate in a national data registry for childhood interstitial lung disease (chILD), and will host the chILD Foundation’s annual meeting in 2012, along with a one-of-a-kind scientific conference on chILD disorders.

**RESEARCH**
Division faculty continue to carry out high-impact investigations from cutting-edge basic science to important clinical translational research. There are 3 main areas of basic research emphasis, hypoxia/hypercarbia (Haddad and colleagues), ion transport (Quinton and colleagues) and lung remodeling (Hagood and colleagues). Some highlights from junior faculty members include recent grants awarded to Dr. Shamsuddin (Cystic Fibrosis Foundation), Xue (Emerald Foundation) and Zhou (American Heart Association. Division faculty continue to present their research findings at conference and invited lectures worldwide.

**EDUCATION**
Dr. Pian received the Physician Excellence Award for Excellence in Teaching from Rady Children’s Hospital, and was a nominee for the Kaiser Excellence in Teaching Award from the UCSD School of Medicine Class of 2011. The Pediatric Pulmonary Fellowship Program is now entering its 3rd year and has a full complement of excellent fellows who are poised to have very successful academic careers.

**RESIDENCY PROGRAM**
The Pediatric Residency Program at UCSD continues to train tomorrow’s top pediatricians and subspecialty fellows. The program achieved many milestones this past year with an intern recruitment that was extremely successful, attracting medical students from major medical schools across the country. The program welcomed our new program administrator, Allison Reinhardt, and bade a fond farewell to Louise Kadane as she retired from the program after 25 years of service to the UCSD community. We continued to enhance our curriculum with new developments in night curriculum, for the inpatient rotations, and an interactive mock and comfort code program to provide real time simulation training for residents. All residents continue to actively participate in the INQUIRY program led by our Associate Program Director, Dr. Erin Fisher. This unique program provides a comprehensive and interactive curriculum in quality improvement and clinical care, and allows the resident to participate in active QI projects under a mentored setting. Two recent graduates from our
program have received the prestigious AMSPDAC award for research training in subspecialty medicine. Moreover, our residents continue to publish during training years and remain active in community service.

Our graduates continue to pursue competitive placement in the community as general pediatricians, or in advanced training in subspecialty fellowships across the nation. Below is a list of our recent graduates and their post-graduate placements:

**Jaime Barea**, MD, Genetics fellowship, UCSD  
**Aaron Boes**, MD, PhD, Neurology fellowship, MGH  
**Megan Browning**, MD, Chief  
**David Del Bello**, MD, ID fellowship, Mount Sinai  
**Jeffrey Gold**, MD, PhD, Neurology fellowship, UCSD  
**Jessica Gordon**, MD, Hospitalist, Orlando Children’s  
**Nidhi Goyal**, MD, Gastroenterology fellowship, UCSD  
**Setareh Jones**, MD, Private Practice, San Diego  
**Samantha Lewis**, MD, Community Clinic, San Diego  
**Monique Mayo**, MD, Chief  
**Steven Reeves**, MD, PhD, Pulmonary fellowship, University of Washington  
**Jenny Shepherd**, MD, Neonatal fellowship, UCSD  
**Tina Udaka**, MD, Chief, Hematology Oncology fellowship, UCSD (2012)  
**Gabe Vaughn**, MD, Cardiology fellowship, UCSD  
**Matthew Williams**, MD, Cardiology fellowship, UCSD  
**Jennifer Yu**, MD, Hematology Oncology fellowship, UCSD

**2011 Med Peds Graduates:**  
**Tracy Exley**, MD, Private Practice, San Diego  
**Chuck Gabbert**, MD, Gastroenterology Fellowship, University of Pittsburgh  
**Patrick Lew**, MD, Hospitalist, Oregon  
**Lauren Worth**, MD, Private Practice, San Diego
New Intern Class of 2014

- Marilynn Chan, MD, UC San Diego
- Sri Cherukumilli, MD, MAS, UC San Diego
- Nicole Coufal, MD, PhD, UC San Diego
- Lauge Farnaes, MD, PhD, UC San Diego
- Andrei Fodoreanu, MD, Harvard Medical School
- Yousuke Horikawa, MD, PhD, UC San Diego
- Jefferson Jones, MD, MPH, Northwestern University
- Curtis Leong, MD, UC San Francisco
- Erin Murphy, MD, UMDNJ Robert Wood Johnson
- Don Nguyen, MD, UC San Diego
- Denise Purdie, MD, Mount Sinai New York
- Andrew Renuart, MD, M. Sc., University of Pennsylvania
- Kathleen Romero, MD, University of Pennsylvania
- Erica Sanford, MD, UC San Francisco

UCSD Med/Peds Residency Match – 2011

- Lawrence Ma, MD, UC San Diego
- Diana Moke, MD, Brown University
- Perrie Pardee, MD, UC San Diego
- Vanessa Raabe, MD, M.Sc., University of Minnesota
AWARDS & RECOGNITION

Dr. Marilyn Jones Receives Lifetime Wellesley Alumnae Achievement Award

Feb 15, 2011 - Dr. Marilyn Jones, professor of clinical pediatrics at UC San Diego, and Director of Genetics and Dysmorphology at Rady Children’s Hospital, San Diego, was awarded the distinguished lifetime Wellesley Alumnae Achievement Award. Former recipients include Hillary Rodham Clinton and Diane Sawyer.

Erin Fisher Receives Highest Honor from Society of Hospital Medicine

March 31st, 2011 – Dr. Erin Fisher, Vice Chair of Clinical Affairs, Professor of Clinical Pediatrics and Hospitalist at UC San Diego, Rady Children’s Hospital-San Diego, was one of four hospitalists to receive the highest honor as a Master of Hospital Medicine (MHM) by the Society of Hospital Medicine this year.

Itkin-Ansari and Tremoulet Receive Prestigious Hartwell Biomedical Research Awards

April 6, 2011 - Pamela Itkin-Ansari, PhD and Adriana Tremoulet, MD, assistant professors in the Department of Pediatrics, UC San Diego, Rady Children’s Hospital-San Diego, are two among twelve recipients of the Hartwell Individual Biomedical Research Awards, honoring researchers whose work contributes to the advancement of children’s health.

King Receives $1.3 Million CIRM Award for Type 1 Diabetes Stem Cell Research

Dr. C.C. King, Associate Research Scientist, in the Pediatric Diabetes Research Center, UC San Diego, has been awarded $1,313,649 to understand the role of microRNAs in the stem cell differentiation process pertaining to insulin-producing cells and possible treatments for type 1 diabetes.

Anders Receives 2011 Leonard Tow Humanism in Medicine Faculty Award

May 31, 2011, La Jolla - Dr. Bronwen Anders, professor of pediatrics at UC San Diego, was awarded the prestigious peer-nominated Leonard Tow Humanism in Medicine Award presented by the Arnold P. Gold Foundation. In addition to peer-nominations, Dr. Anders was selected by a subcommittee of the School’s Faculty Council as the faculty recipient of the award.
FACULTY WITH $1 MILLION+ IN GRANT SUPPORT IN ONE BUDGET PERIOD

CHAMBERS, CHRISTINA, Ph.D., M.P.H  *Dysmorphology/Teratology*
FRAZER, KELLY, Ph.D.  *Genomic Information Sciences*
FRIEDMANN, THEODORE, M.D., Ph.D.  *Genetics*
HADDAD, GABRIEL G., M.D.  *Respiratory Medicine*
LA SPADA, ALBERT R., M.D., Ph.D.  *Genetics*
NIZET, VICTOR F., M.D.  *Pharmacology and Drug Discovery*
SANDER, MAIKE, M.D.  *Endocrinology/Diabetes*
SAWYER, MARK H. M.D.  *Infectious Diseases*
SPECTOR, STEPHEN A., M.D.  *Infectious Diseases*
ZIVE, MICHELLE, M.S.,  *Child Development and Community Health*

NEW GRANTS JANUARY-JUNE 2011

ACEVES, SEEMA: $1,798,750.00
Mechanisms of chronic tissue damage in allergic eosinophilic esophagitis
Awarded by: NIH (NIAID) NATL INST OF ALLERGY & INFECTIOUS DISEASES

BARSHOP, BRUCE: $132,769.00
Newborn Screening Metabolic Centers
Awarded by: CAL H&W PUBLIC HEALTH

BIRD, LYNNE MARIE: $72, 565.00
Levodopa/Carbidopa Treatment of children with Angelman Syndrome
Awarded by: ANGELMAN SYNDROME FOUNDATION, INC.

CAPPARELLI, EDMUND: $55,846.00
Exposure-Response Comparison of Lisinopril to Amloidipine in Hyptertensive Children
Awarded by: CASE WESTERN RESERVE UNIVERSITY

CAPPARELLI, EDMUND: $264,056.00
IMPAACT Pharmacology Core Lab
Awarded by: SOCIAL & SCIENTIFIC SYSTEMS, INC.

CHAMBERS, CHRISTINA: $4,465,948.00
Cervarix-1 VAMPS
Awarded by: GLAXOSMITHKLINE

GOTTSCHALK, MICHAEL: $62,376.00
Combination Therapy with Sitagliptin (DPP-4 Inhibitor) and Lansoprazole (Proton Pump Inhibitor) to Restore Pancreatic Beta Cell Function in Recent-Ons
Awarded by: SANFORD USD MEDICAL CENTER
GOTTSCHALK, MICHAEL: $393,392.00
Effect of Intravenous Alphs-1 on Preserving Beta-cell Function in New-onset Type 1 Diabetes Mellitus (TN041A1)
Awarded by: (UCSF) UC SAN FRANCISCO

GROSSFELD, PAUL: $75,000.00
The role of ETS-1 in the neural crest in cardiac development and disease
Awarded by: CHILDREN'S HEART FOUNDATION

ITKIN-ANSARI, PAMELA: $300,000.00
Novel Approaches to Improving Survival of Encapsulated Islets: Perfluorocarbons and Angiogenic Factors to Increase Oxygen Supply
Awarded by: HARTWELL FOUNDATION

KUELBS, CYNTHIA: $1,123,776.00
UCSD Clinical Forensic Medical Training Center
Awarded by: CAL GOVERNOR'S EMERGENCY SERVICES

LA SPADA, ALBERT: $132,081.00
Evaluation of PhotoThera Infared ATP Activation in HD Transgenic mice
Awarded by: Photothera (Frmly Acculaser, Inc.)

MONTGOMERY, ANTHONY: $48,873.70
Kinase Inhibitors and the Endocrine Specification of hESC derivatives
Awarded by: AMERICAN DIABETES ASSN

MUOTRI, ALYSSON: $362,466.00
Modeling Familial ALS8 with Human Induced Pluripotent Stem Cells
Awarded by: MUSCULAR DYSTROPHY ASSOCIATION, INC

MUOTRI, ALYSSON: $1,491,471.00
Developing a drug-screening system for Autism Spectrum Disorders using human neurons
Awarded by: CIRM

MUOTRI, ALYSSON: $111,222.00
Williams Syndrome: A Model for Linking Genes, Neural Systems and Social Phenotype
Awarded by: SALK INSTITUTE FOR BIOLOGICAL STUDIES

NIZET, VICTOR: $45,000.00
Monitoring Bacterial Pathogen Interactions as a Novel Paradigm for Therapeutic Discovery
Awarded by: BANK OF AMERICA-GIANNINI FOUNDATION

NIZET, VICTOR: $703,902.00
Boosting Innate Immunity Through HIF to Treat Antibiotic-Resistant Infections
Awarded by: NIH (NIAID) NATL INST OF ALLERGY & INFECTIOUS DISEASES

NIZET, VICTOR: $366,000.00
Boosting Innate immunity through HIF to Combat Resistant Wound Infections  Awarded by: AKEBIA THERAPEUTICS, INC.

NIZET, VICTOR $1,909,906.00
Mechanisms of the M protein in group A Streptococcus virulence
Awarded by: NIH (NIAID) NATL INST OF ALLERGY & INFECTIOUS DISEASES

PIAN, MARK: $40,170.00
CFF Care Center
Awarded by: CYSTIC FIBROSIS FOUNDATION

ROBERTS, WILLIAM: $ 23,964.00
Environmental and Molecular Epidemiology of Childhood Leukemia
Awarded by: UC BERKELEY

SANDER, MAIKE : $252,087.00
Quantitative comparison of hESC and hiPSC lines to generate pancreatic endoderm and endocrine cells
Awarded by: VANDERBILT UNIVERSITY (TENNESSEE)

SHAMSUDDIN, A.K. R: $86,400.00
HCO3- Transport in Native Small Airway Epithelia
Awarded by: CYSTIC FIBROSIS FOUNDATION

SPECTOR, STEPHEN: $34,157.00
Pediatric HIV/AIDS Cohort Study (PHACS): Enhances Data Collection
Awarded by: HARVARD UNIVERSITY

SPECTOR, STEPHEN: $25,000.00
Vitamin D supplementation enhances immune response to BCG vaccination in infants
Awarded by: THRASHER RESEARCH FUND

TREMOULET, ADRIANA: $300,000.00
A Biomarker Panel for Diagnosing Kawasaki Disease
Awarded by: HARTWELL FOUNDATION