

JULY-DECEMBER 2011

ISSUE 4

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MESSAGE FROM THE CHAIR*Dear Colleagues,*

I am pleased to share with you our fourth Semi-Annual Newsletter on July-December 2011 department-wide updates and achievements. 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 176 faculty members, 58 residents, 3 chief residents, 57 post-doctoral fellows and 291 staff employees.

Total revenues for FY2010-11 were \$103.5 million, of which, 51.8 million were generated from research activities.

Warm 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
Rady Children's Hospital of San Diego

DEPARTMENTAL NEWS

Division of Allergy, Immunology and Rheumatology

CLINICAL

The Allergy, Immunology, and Rheumatology Division welcomes Dr. Stephanie Leonard and Dr. Johanna Chang. Dr. Leonard was trained at Mount Sinai in New York, internationally known for research and therapy of Food Allergy, and is now the Director of the newly formed Food Allergy Center. Dr. Chang returned to RCHSD after specialty training at Stanford; she has a particular interest in using ultrasound in pediatric rheumatology practice. The Division now has four internationally known specialty referral clinics in addition to Allergic Diseases and Asthma Clinics including Immunodeficiency (Bastian, Peterson), Eosinophilic Esophagitis (Aceves), Recurrent Fevers (Hoffman, Broderick), and Food Allergy (Leonard).

RESEARCH

An exciting breakthrough in understanding the seasonality of KD was published in *Science Reports* and covered by the *Wall St. Journal* and the *Huffington Post*. In a collaboration between the Scripps Institution of Oceanography and the KD Research Center, research results correlated tropospheric wind patterns and their relationship to periods of increased KD activity in Japan, Hawaii, and San Diego. Dr. Seema Aceves received an NIH/NIAID R01 award to study the mechanisms and clinical implications of esophageal remodeling in pediatric eosinophilic esophagitis (EoE). The KD Research Center held its annual Gala on October 21, 2011 with celebrity chef, Nate Appleman, and 12 of his celebrity chef friends. The event raised over \$150,000 for KD research. Over the past 6-month period, Division Faculty have published papers in *Pediatric Infectious Disease Journal*, *Nature Genetics*, and *Journal of Medical Genetics* on the increased rate of KD amongst Filipino children, and genetic linkages of the disease.

EDUCATION

Dr. Aceves and Dr. Hoffman presented special invited lectures for the recently reorganized *Immunology* course for UCSD medical students. Dr. Stephanie Leonard and senior fellow Dr. Lori Broderick will be featured at the *Advances in Pediatrics* course focusing on food allergy. The Division welcomes Dr. Hannah Walford, a UCSD Med-Peds resident, as its new Allergy Immunology Fellow in July, 2012.

Division of Cardiology

CLINICAL

The Cardiovascular Intensive Care Unit is planned to open in September 2012. It will be a 10-bed unit adjacent to the current PICU with dedicated physician, nursing and ancillary staffing. Although the Division's 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. A second program which is in an advanced planning stage is the Cardiac Transplant Program. Dr. Eric Devaney a pediatric cardiac transplant surgeon currently at the University of Michigan, has been successfully recruited and will be joining the Division by early Summer 2012. The UNOS

application is currently being prepared for center approval, and the Division's surgical faculty hope to perform their first pediatric heart transplant before the end of 2012. In the catheterization laboratory, Drs. El Said and Moore continue to advance transcatheter and hybrid technology. They have recently reported a technique for the "off-label" use of coronary stents to bridge infants with coronary stenosis and very poor ventricular function to elective surgical revascularization or transplantation; they were the first to have reported these procedures in infants.

RESEARCH

Dr. Grossfeld's research group found evidence suggesting that the ETS-1 gene (the gene that heart defects in Jacobsen syndrome) appears to have a critical role for preserving normal cardiac neural crest cell function. In the absence of the ETS-1 gene, cardiac neural crest cells appear to migrate to the head instead of the heart, which may contribute to the craniofacial abnormalities these children also have. Grossfeld is also pursuing an approach to identify a gene (or genes) that may prevent the deletion of ETS-1 from causing heart defects. In addition, Dr. Grossfeld, is collaborating with Dr. Alexey Terskikh (Sanford-Burnham), to study the how the deletion of the Neurogranin gene (occurs in most patients with Jacobsen syndrome) causes cognitive and behavioral problems. They are currently exploring new therapeutic strategies for boosting Neurogranin levels in the brain in patients with cognitive and behavioral problems, including potentially in patients with Alzheimer's disease. Drs. Perry, Printz and Tejman-Yarden continue funded work with the UCSD Mechanical Engineering Department on the analysis of intraventricular flow vortices in newborns and patients with bundle branch block, yielding exciting preliminary data. A related project on ventricular myocardial torsion was completed and submitted for presentation. Drs. Perry and Tejman-Yarden developed a study and model to predict lethal arrhythmia onset by heart rate analysis.

EDUCATION

In addition to receiving approval from UCSD to "temporarily" expand the cardiology fellowship program, the Cardiology Division is seeking approval from the ACGME to expand its current cardiology fellowship from a total of 4 fellows to six. This would allow the program to have two fellows at each year level. As a result, the increased number of fellows will also enhance fellow education and reduce the service requirements of current fellows.

Division of Academic General Pediatrics, Child Development & Community Health

The Divisions of General Academic General Pediatrics/Adolescent Medicine and Child Development and Community Health joined in August 2011, bringing together 21 faculty members, 7 adjunct faculty, 3 postdoctoral fellows and 2 developmental-behavioral pediatric fellows in 3 sections. Under Division Chief, Sheila Gahagan, M.D., M.P.H, the 3 sections are led by: Bretten Pickering M.D. (Academic General Pediatrics), Yi Hui Liu M.D. (Developmental-Behavioral Pediatrics) and Maria Luisa Zuñiga (Community Health).

CLINICAL

Developmental-Behavioral Pediatrics Consultation Clinic evaluates and treats 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. Clinical volume has increased over 400% since July. Academic General Pediatrics provides comprehensive well, sick, and chronic care to children from birth to young adulthood, in the context of educating medical students and residents. Specialty clinics include Care for Medically Fragile Children (Pickering), and The Premature Infant Nutrition Clinic (Boies).

RESEARCH

Shelia Broyles Ph.D., M.P.H. published a paper on cultural adaptation of a nutrition curriculum for Latino families in the *Journal of Nutrition Education & Behavior*. Dr. Daley was recently awarded the HRSA-funded Health Careers Opportunity Program/San Diego Regional Consortium (HCOP/SDRC), to help students from disadvantaged backgrounds develop needed skills to enter and graduate from health professions schools. Over the last 6 months, Patricia East, Ph.D., has published 3 articles including "Adolescents' Pregnancy Intentions, Wantedness, and Regret: Cross-Lagged Relations With Mental Health and Harsh Parenting." In her cohort of pregnant and parenting teens, she found that "lower prenatal pregnancy intendedness and wantedness predicted difficulties in parenting." This was published in the February 2012 *Journal of Marriage and Family*. Sheila Gahagan, M.D., M.P.H. continues her research with a longitudinal cohort of Chilean adolescents and has 3 new publications over the past 6 months. A recent publication, "Low Bone Mineral Density in a Cohort of Normal, Overweight and Obese Chilean Adolescents" highlights the increasing prevalence of low bone mineral density in adolescents and notes that this condition does not spare obese children, as was previously believed. Maria Luisa Zuñiga Ph.D. published 4 articles over the last 6 months including a study of patient-initiated changes to antiretroviral therapy in HIV-infected patients living in the U.S. Mexico border region. She found that almost half of patients made changes in dose or schedule of antiretroviral therapy without consulting their physicians. Martin T. Stein, M.D. published 2 articles in *The Journal of Developmental and Behavioral Pediatrics* including one discussing an ethical conflict between parents and clinician in a child with language delay.

EDUCATION

All residents spend block months in Academic General Pediatrics, Developmental-Behavioral Pediatrics and Community Health (89 block months per year). As such, the Division serves as a central hub of residency clinical training, with many dedicated clinician-educators. Members of the Division include Lori Wan M.D., program director, Medicine-Pediatrics Residency and Lindia Willies-Jacobo, Assistant Dean of the School of Medicine for Diversity and Community Partnerships. In addition to residency education, the Division provides 22 block months for medical students each year, and welcomes 72 medical students annually for half-day assignments. In addition, many students do their Independent Study Project (ISP) with Division Faculty. There are currently 2 Developmental-Behavioral Pediatric fellows and 3 Post Doctoral fellows training in the Division.

Division of Dermatology

CLINICAL

The Division passed the 20,000 ambulatory visits a year mark in 2011, with services at the Rady Campus, Encinitas, Escondido and Murrieta satellites, and over 1,000 surgical, laser and phototherapy procedures. The Vascular Lesion and Birthmark Center, has expanded its multidisciplinary activities, including laser, interventional radiology and birthmark surgery services. The Eczema and Inflammatory Skin Disease Center continues to be an international leader in atopic dermatitis, psoriasis and acne clinical care, research and education.

RESEARCH

Dr. Wynn 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. Dr. Lawrence Eichenfield has been studying pre-adolescent acne, publishing the first clinical study of treatment in this age group in *Pediatrics*, and serving as national principal investigator for two large multicenter, blinded, vehicle-controlled clinical studies of retinoids and retinoid combination medications in this population. He is President-elect of the American Acne and Rosacea Society, and is one of the creators of a multicenter collaborative research program for pediatric dermatology, *PEDRA* (PEdiatric Dermatology Research Alliance). Dr. Sheila Fallon Friedlander, President-elect of the Society for Pediatric Dermatology, is principal investigator of a study of propranolol for infantile hemangiomas, a therapy that is revolutionizing care of these common vascular tumors. Dr. Magdalene Dohil, co-director of the Eczema Center, will be hosting an international meeting of the Harmonization of Outcomes Measures of Eczema group (HOME), a consortium studying the best methods for assessing the utility of intervention research on atopic dermatitis. Over 60 papers and textbook chapters have been published by the Division over the past year.

EDUCATION

The Division continued its diverse international educational activities, including Dr. Friedlander co-chairing the national CME Skin Disease Education Foundation Women's and Pediatrics Dermatology Seminar in San Francisco, and winning the coveted "Speaker of the Day" prize at the Fall Clinical Dermatology Meeting. Dr. Victoria Barrio lectured at the Alabama Dermatology Society, the Summer Academy of Dermatology meeting and will be directing a session at the upcoming Academy of Dermatology meeting, along with Drs. Dohil, Tom, Friedlander and Eichenfield. Dr. Eichenfield presented new National Pediatric Acne Guidelines at the American Academy of Pediatrics National Conference in Boston. The Division has the largest fellowship program in the country, with four clinical fellows and one research fellow.

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. Faculty members also participate in a monthly Dysmorphology/Genetics clinic in Tijuana at the Hospital Infantil de las Californias where patients are seen 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 initiated the first comprehensive prevalence study of FASD in the U.S. which is currently being conducted in collaboration with San Diego City Schools, Regional Center, and through Child Welfare Services. Division faculty have also completed a national study of pregnancy outcome among women who received the H1N1 monovalent vaccine during the pandemic year. The Division has expanded its North American research portfolio on autoimmune diseases in pregnancy, and in 2011 added multiple sclerosis in pregnancy as a new disease emphasis. The Division leads the National Children's Study (NCS) site for San Diego County, and in 2011 completed a one-year Vanguard pilot study for the NCS. Data resulting from this effort are currently being evaluated to help inform the design of the main study, which will involve over 100,000 pregnancies across the U.S. with children followed up to 21 years of age.

EDUCATION

The Division has hosted two visiting scholars in 2011, three pre-doctoral students and four post-doctoral fellows. Three of these students have produced publications in top-tier journals over the course of the last six months. The California Pregnancy Health Information Line continues to educate the public throughout California on prenatal exposures and risk to the developing fetus. In 2011, the Health Information Line has worked with Reproductive Medicine and Family Medicine to streamline referrals for consultation with the Health Information Line via the EPIC electronic medical records system.

Division of Emergency Medicine

CLINICAL

Dr. Bema Bonsu from Nationwide Children's in Columbus, Ohio will start as the new Division Chief in July 2012. At present, Jim Harley, M.D., M.P.H. and Marc Etkin, M.D., are the Interim Division and Clinical Directors, and Dr. Kathy Konzen is the Urgent Care Director. In July-December 2011, the Division provided emergency care to 33,135 children at the main RCHSD campus and over 16,000 patients at our 4 urgent care centers. Ten percent of all RCHSD ER visits are admitted to the hospital accounting for 50% of all RCHSD inpatient admissions. The Division recently hired Dr. Keri Carstairs as a new Pediatric Emergency Medicine attending. The Division now has four Urgent Care sites at Oceanside, Escondido, Mid-City, and La Mesa. This year the Emergency Department made its goal of reducing the 'left without being seen' rate less than 2% and decreasing throughput times by 5%.

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. Dr. Nisa Atigapramoj had started a prospective study of the predictive value of serum lactate for the presence or absence of intussusception. Division faculty have collaborated with the Kawasaki Disease Research Center within the Department, and have contributed to two publications on

cardiovascular biomarkers of KD, including the *International Journal of Cardiology*.

EDUCATION

The Emergency Medicine Pediatric Fellowship program just received a 5 year accreditation from the ACGME. The Division currently trains two fellows a year in Pediatric Emergency Medicine (for a total of 6 fellows). Faculty members continue to train pediatric residents and adult emergency medicine residents from UCSD and the Navy where Dr. Seema Shah is the education coordinator. This year 170 residents and 20 medical students rotated through the ER. Paul Ishimine M.D., was appointed to the American Board of Emergency Medicine/American Board of Pediatrics Pediatric Emergency Medicine Subboard for a three year term starting January, 2012. Jim Harley, M.D., M.P.H. was selected as the Chair Elect for the State Technical Advisory Committee for EMS-C for California.

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. Dr. Ron Newfield is involved in a lipid trial with ezetimibe monotherapy, in children with hypercholesterolemia. He has enrolled more than 300 subjects to the TrialNet Natural History study, testing family members (children and adults) of type 1 patients for risk of developing T1DM.

RESEARCH

Dr. Jane Kim is recipient of a UCSD Pediatrics Genome Research Grant to identify epigenetic variants in childhood that could trigger the development of obesity and insulin resistance in adulthood. Dr. Maïke Sander and collaborators received three NIH-NIDDK Beta Cell Biology Consortium Awards to investigate the application of enhancers into laboratory and clinical tools for beta-cell differentiation; building 3-D systems for cell differentiation and growth; and to increase the number of viable beta-cell graft sites. As published in *PLoS ONE*, Dr. Sander's laboratory demonstrated that Sox9-haploinsufficiency causes glucose intolerance in mice.

EDUCATION

Dr. Sander was invited to speak at conferences in Baeza, Spain and Berlin, Germany about her discoveries in pancreatic cell differentiation.

Division of Gastroenterology

CLINICAL

Neelesh Tipnis, MD, has joined the Division as the new Director of Gastrointestinal Motility and Functional Bowel Disorders. The new motility Move It Center will help children with conditions such as swallowing disorders, feeding intolerance, cyclic vomiting syndrome and functional abdominal pain, mitigate disease morbidity and improve child and family quality of the life. Using an interdisciplinary model, the Move It Center will offer state of the art diagnostic testing, as well as, pharmacological, nutrition, and complementary therapies to help patients achieve this goal.

RESEARCH

The newly created Move It Center will provide a research platform including pilot research grants for development of innovative technology to better understand the pathophysiology of gastrointestinal dysfunction in children and novel therapeutic options to treat children with these conditions. During the period of July to December of 2011, Division Faculty published more than 20 articles in high impact journals as well as had more than 15 oral and poster presentations at several national and international meetings. This included Dr. Lars Bode's landmark paper, published in *GUT* and *Nature Review* that demonstrated why breast-fed infants are at a much lower risk to develop necrotizing enterocolitis than formula-fed infants and provide novel therapeutic targets. Dr. Mamata Sivagnanam received the highly prestigious NASPGHAN Young Investigator Award at the Annual Meeting.

EDUCATION

The Division continues to expand its teaching activities. Dr. Sherry Huang continues her outstanding work as the Pediatric Residency Director. Dr. Tipnis serves on the Motility Committee for the North American Society for Pediatric Gastroenterology and is Vice-Chair of the Pediatrics Section for the World Organization of Specialized Studies on Diseases of the Esophagus. Dr. Jeannie Huang is Chair of the Obesity Task Force at NASPGHAN. Dr. Bode was an invited speaker at *The Glycan Forum*, Germany, *Glycobiology of Human Milk Oligosaccharides*, Copenhagen, Denmark, and *ESPGHAN Conference*, Italy. Dr. Schwimmer gave Grand Rounds at the Department of Pediatrics, Harbor-UCLA Medical Center and was Visiting Professor at the Department of Pediatrics, Duke University. Dr. Feldstein was Visiting Professor at the Liver Unit, Bambino Gesù Children's Hospital, Rome, Italy, Invited Speaker, at the International Symposium of Cells of the Hepatic Sinusoid, Florence, Italy, Visiting Professor, at the University of Southern California. Los Angeles, CA, Co-Chair of the Steatohepatitis session at the AASLD annual meeting and Faculty Member of the Annual Meeting of the Southern California Research Center for Liver Diseases, Los Angeles, CA.

Division of Genetics

CLINICAL

The clinical activity of the Genetics Division has made it one of the most popular electives for rotating residents. There are multidisciplinary clinics offered for Down syndrome, Prader-Willi syndrome, and Cleft Palate/Craniofacial Disorders. 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. In 2011 Dr. Marilyn Jones began a three year term as a member of the Committee on Genetics for the American Academy of Pediatrics and assumed the chair of the Commission on Approval of Teams for the American Cleft Palate-Craniofacial Association.

RESEARCH

Dr. Lynne Bird's report on a therapeutic trial of pro-methylation supplements as a treatment for Angelman syndrome was published in December, 2011. Dr. Bird also co-authored a report of a novel X-linked malformation syndrome with male lethality due to mutations in NAA10 (July 2011). Dr. La Spada's research paper entitled, "Spinocerebellar Ataxia Type 7 Cerebellar Disease Requires the Coordinated Action of Mutant Ataxin-7 in Neurons and Glia, and Displays Non-Cell-Autonomous Bergmann Glia Degeneration," was featured on the cover of the November 9, 2011 issue of *The Journal of Neuroscience*.

EDUCATION

Dr. Albert La Spada and Dr. Alysson Muotri have teamed up to teach the BISP194 undergraduate seminar class "Molecular genetic basis of neural function and neurological disease" during the 2012 winter quarter. 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 Fall 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.

RESEARCH

Researchers in the Genome Information Sciences Division have recently published results in *Genome Biology* on the detection of low prevalence somatic mutations in solid tumors with ultra-deep targeted sequencing.

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 trained five graduate students and one postdoctoral researcher in genomic data analysis. Dr. Kelly Frazer presented at the UCSD Bioinformatics and Systems Biology Graduate Program seminar, the UCSD Cardiovascular Research Conference seminar series, and the UCSD CTRI sponsored Annual Frontiers of Clinical Investigation Symposium.

Division of Hematology/Oncology

CLINICAL

The Peckham Center for Cancer and Blood Disorders at Rady Children's Hospital San Diego is the largest pediatric cancer care facility in San Diego, Riverside and Imperial counties. There are over 15,000 outpatient visits and more than 7,500 inpatient visits each year. Approximately 200 new oncology patients are diagnosed annually. There are comprehensive programs in BMT, Hemophilia, Long Term Follow-up of Cancer Survivors, Neuro-Oncology, Palliative Care, and Sickle Cell Disease. An Adolescent & Young Adult Program will launch this year.

RESEARCH

Together with the UCSD Moores Cancer Center, the Division is part of a National Cancer Institute designated Comprehensive Cancer Center. Through an alliance with St. Jude Children's Research Hospital, there is increased access to innovative oncology clinical trials. Several joint clinical trials have begun and collaborations regarding other research efforts are underway. Between June-December 2011, Division faculty have published in several journals, including the *Journal of Pediatric Hematology Oncology* and *Nature Communications*. Dr. Aristizabal was awarded a one-year, \$50,000 Hyundai Hope on Wheels Grant entitled, "Racial/Ethnic Diversity in Pediatric Oncology Clinical Trial Enrollment at Rady Children's Hospital San Diego."

EDUCATION

The Hematology/Oncology Fellowship Program has five current fellows, Sun Choo, Jennifer Yu, Paula Aristizabal, Andrew Martin, and Lisa Hartman. Two new fellows are due to start in July 2012. In addition to training residents and medical students rotating through the Division, Dr. Schiff served as the ISP mentor for Cassie Kline, a UCSD medical student and currently is the ISP mentor for another UCSD medical student, Tiffany Prugpichailers. In the fall, Dr. Schiff presented at the *American Academy of Pediatrics National Conference*, *Annual Biomedical Research Conference for Minority Students*, and the *Annual Assembly of the AAHPM and HPNA*. Dr. Aristizabal and Dr. Roberts' poster on 'Developing a Nursing Education Program in Pediatric Oncology in a Low Income country: The Role of Twinning' was accepted for oral presentation at the *43 Congress International Society of Paediatric Oncology* last Fall, in Auckland, New Zealand.

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. Last year, the Division had over 13,000 patient contacts on the inpatient services alone. Drs. Jenn Davis and Premi Suresh have taken over the Assistant Medical Director role at the Chadwick Center, overseeing the Forensic and Medical Program. Dr. Erin Fisher is working on an Accountable Care Organization project, part of the healthcare reform initiative. Dr. Keith Vaux is spearheading an effort to bring complex international patients to Rady for specialized care and evaluation. Dr. Wendy Wright is working on a clinical documentation improvement project with physicians to prepare the organization for ICD-10.

RESEARCH

Six 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

Division faculty are the primary teaching faculty for all medical students and residents rotating on the RCHSD inpatient teaching service, providing 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 faculty serve as pediatric resident advisors, fellowship directors, conference coordinators, rotation directors and participants in the pediatric residency selection process. The Division has 3 Hospital Medicine Fellows this year under the direction of Dr. Fisher. This year, the child abuse fellowship is in partnership with emergency medicine as one of the emergency medicine fellows is concentrating her research and scholarly projects in child abuse medicine and working clinically with the child abuse pediatricians with the goal to meet the child abuse sub-board requirements. Division members provide education locally, nationally and internationally on a variety of topics. In the past 6 months, Dr. Kuelbs travelled to Taiwan and Sweden to provide consultative services on child abuse and domestic violence and Dr. Vaux travelled to several middle eastern countries, researching and evaluating children for underlying genetic diseases. Dr. Fisher has been an invited speaker at two national Society for Hospital Medicine meetings. Dr. Fisher also gave 3 workshops at the Pediatric Hospital Medicine Tri-Sponsored International meeting as well. Drs. Davis, Suresh, Kuelbs and Wright presented at the International Child Maltreatment Conference in San Diego.

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 of the Division 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

Division faculty have published over 12 research papers between July and December, 2011. Dr. Sawyer and colleagues in the *American Journal of Infection Control* published an article describing the success of the public health initiative to increase the annual influenza immunization rates among hospital health care personnel in San Diego. Drs. Viani, Spector and colleagues published an article in the *Journal of the International Physicians in AIDS* that characterized the temporal trends in HIV disease progression among perinatally infected children at a clinic in Baja California, Mexico. In additional research, Dr. Spector's laboratory published two articles on the role of autophagy in HIV pathogenesis. In the first article published in *The Journal of Infectious Diseases*,

Spector et al. found that the dysregulation of autophagy during HIV infection is important in the pathogenesis of neuroAIDS. In the second article published in the *Journal of Biological Chemistry*, Drs. Campbell and Spector demonstrated a role for autophagy during the early phases of HIV infection and a potential link between vitamin D3 and rapamycin-induced autophagy. Dr. Spector has also been recently elected to serve as Vice-Chair of the new formed Cure Scientific Committee within the IMPAACT Network which is charged with finding a cure for children and youth infected with HIV.

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, and continues to lecture to student in the schools of medicine and pharmacy. Dr. Sawyer continues to be co-organizer of the Department of Pediatrics/RCHSD highly successful Grand Rounds program. Dr. Sawyer continues to serve as a member of the Centers for Disease Control (CDC) Advisory Committee on Immunization Practices and as Chair of the California Immunization Committee. Dr. Viani serves as a member of the International Maternal Perinatal Adolescent AIDS Treatment (IMPAACT) Network Primary Therapy Scientific Committee. Dr. Spector over the past year has served as a Senior Advisor to the Office of U.S. Global AIDS Coordinator (OGAC) that oversees the President's Emergency Program for AIDS Relief (PEPFAR). In this capacity, he has represented OGAC in meetings at the World Health Organization (WHO) in Geneva. He has been appointed to Inter-Agency Technical Task IATT Force for Pediatric HIV, the IATT for Prevention of HIV Mother-to-Child Transmission, the Paediatric Antiretroviral Working Group (WHO), the Pediatric HIV Public Private Partnership Task Force and the Post Rape Care for Children in PEPFAR Task Force.

Division of Neonatology (Rady Children's Hospital, San Diego)

CLINICAL

Under the direction of Dr. Gail Knight for the 4th year in a row, the RCHSD NICU has been ranked among the nation's best by U.S. News and World Report. Dr. Denise Suttner has ensured that the ECMO program is awarded this honor in each cycle. The Division of Neonatology has a full-time faculty of 14 board-certified Neonatologists and 7 neonatal nurse practitioners providing state-of-the-art clinical and medical direction to 5 NICU's including Rady Children's Hospital San Diego and the NICU's within the Scripps and Palomar/Pomerado Healthcare Systems (93 neonatal beds total). The Division provides a regionalized approach to care, participating with all the major delivery services in San Diego, Imperial and Riverside Counties, and is focused on clinical excellence and evidence-based research and teaching. In addition, the Division's physicians provide medical and neuro-developmental evaluations of high-risk infant graduates from the NICU's serviced by the Division.

RESEARCH

Division faculty have been major participants in non-network, multi-center clinical studies with publications in the New England Journal of Medicine, Pediatrics, and Journal of Pediatrics. Dr.

Amy Kimball is the Principal Investigator for a Multi-Center Trial for iNO use to Prevent Premature Chronic Lung Disease. Additionally, Dr. Gail Knight is the Principal Investigator for a research study on the Impact of music on physiological measures of stress in neonates in the NICU. Dr. Mark Speziale continues to be an active member of the Children's Hospital Neonatology Consortium (CHNC): data sharing and quality improvement initiative and Physician site leader for CPQCC patent ductus arteriosus observational study.

EDUCATION

The Neonatology group collaborates with the Academic Division at University of California, San Diego (UCSD)-Hillcrest. The RCHSD NICU shares in the fellow education by helping to ensure our neonatal fellows are able to provide the highest range of expertise in the complete range of all neonatal diseases including pre and post-operative cardiac management. Additionally, they are trained and certified in providing neonatal ECMO. Our joint rotations has resulted in our trainees having one of the best overall clinical exposures and education compared to any other program in the country. Division neonatologists are key faculty at several conferences including the 22nd Annual RCHSD ECMO Training Course held here in San Diego as well as the 28th Annual *The Fetus and Newborn State of the Art Care Conference*. The Division has recently obtained a 'high fidelity neonatal simulation baby' with realistic anatomy and clinical functionality allowing real life like education for neonatal emergencies.

Division of Neonatology (UC San Diego)

CLINICAL

Plans for the new 52-bed Neonatal Intensive Care Unit for the Jacobs Medical Center Thornton Site is now complete; the NICU will be on the eighth floor and ground breaking for the building will begin April, 2012. The UCSD NICU has been designed as a family centered facility with a single baby per dedicated room with adequate space for nursing and family presence. The new facility will be available for occupancy in early 2016 at which time it will replace the current 49 bed NICU on the Hillcrest site. Our new unit will include plans for an in-unit MRI as well as in unit operating/procedure room. Dr. Krishelle Leong has recently joined the Faculty of the Neonatology Division as a coverage physician. Dr. Leong is unique in having completed 3 training programs, and is the only Med-Peds trained Neonatologist who is also boarded in Palliative Care Medicine. Dr. Leong currently dedicates 50% of her time working in the UC San Diego NICU and the other 50% of her time providing palliative medicine coverage at the San Diego Hospice.

RESEARCH

Research in resuscitation has continued to progress. The newest iteration of the NRP guidelines (2011) now uses the duration of 30 seconds for intubation, as reported from our previous studies, and recommends the use of targeted SpO₂ during resuscitation which the Division was the first to pioneer in the United States. Division faculty has submitted 11 abstracts for the Pediatric Academic Societies Conference being held April 28-May 1, 2012 in Boston, of which 5 have been selected for Platform Presentations. In the past year Division members have published 11 manuscripts with 2 more currently in press.

EDUCATION

The Infant Special Care Center at UCSD remains the core teaching unit for our pediatric residents and is the lead program for the 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 also continues to provide a 4-week resuscitation simulation training program for all pediatric residents. Division members have been invited presenters at Neonatal educational symposiums in Canada, Denmark, Sweden, Spain and Germany as well as New York, South Dakota, Michigan, Minnesota, Alabama, Texas, and California.

Division of Pediatric Nephrology

CLINICAL

The Pediatric Kidney Transplant Program has completed robotic-living-related donor nephrectomies for two pediatric kidney recipients this past fall. Dr. Caitlin Carter created a new video for pre-transplant patients that introduces all members of the transplant team. The Division has started a weekly CCS kidney team clinic with renal dietician and social worker every Thursday for the management of children with congenital anomalies and chronic kidney disease. A new monthly combined Rheumatology and Nephrology Lupus Clinic will start March 21st, 2012. Finally, the new Rady Children's Hospital Hemodialysis and Apheresis Unit to facilitate an increase in dialysis nursing efficiency will be completed by the beginning of March, 2012. Division members will be able to treat up to five patients at once - far more than the current two-room, three-patient unit. Most importantly, the Division will no longer be sending older teenage patients to adult hemodialysis units for lack of room at Rady Children's Hospital.

RESEARCH

Dr. Robert Mak presented an abstract at the American Society of Nephrology annual meeting in Philadelphia on "Vitamin D ameliorates cardiovascular complications and prolongs survival in chronic kidney disease," which is a novel finding and attracted a lot of attention. Dr. Mak gave an invited lecture on "Cachexia in chronic kidney disease: from geriatrics to pediatrics" and also moderated an oral poster session at the 6th International Congress on Cachexia in Milan, Italy. Wilson Cheung, Ph.D, presented two abstracts at the same International Congress. The titles were "Vitamin D metabolites ameliorate cachexia in chronic kidney disease," and "The impact of a novel leptin receptor antagonist on cachexia in chronic kidney disease." Dr. Mak's research group published 6 papers in the last 6 months and also obtained a research grant from the Abbott Laboratory for a project entitled "The impact of atrasentan(endothelin receptor antagonist) on kidney disease progression and cardiovascular complications in diabetic nephropathy."

EDUCATION

Dr. Mak is the organizing Chair of the 9th International Symposium on Nutrition and Growth in Chronic Kidney Disease, April, 2012. He also gave Pediatric Grand Rounds on pediatric hypertension at Scripps Mercy Hospital. Dr. Nadine Benador gave a talk on "Understanding Congenital Nephrotic Syndrome of the Finnish Type" at the FinnFest 2011. The Division will have 4 fellows starting in July 2012. The implementation of a weekly fellow clinic with didactic teaching before clinic was very well received.

Division of Pediatric Neurology

CLINICAL

With 16 Division Faculty members, the Division's clinical activities continue to expand. In addition to general neurological services, the Division provides specialty clinics in autism, epilepsy, neuro-metabolic disorders, Rett syndrome, movement disorders, neonatal neurological followup, pediatric stroke, and neuromuscular disorders. Drs. Harbert, Haas, Trauner, Bui, Wang and Crawford have formed a Neonatal Neurocritical Care consultation service that covers neurological consultations at Rady Children's Hospital, Sharp Mary Birch, and UCSD NICUs. Intra-operative monitoring services are now a focus of the clinical neurophysiology service. Dr. Mower and Dr. Nespeca performed their first intracranial monitoring for seizure surgery localization in November, 2011, resulting in a successful treatment of a child with intractable epilepsy. Collaboration with Professor Adam Aron in the UCSD Department of Psychology resulted in funding of a nurse practitioner, Gail Reiner, to obtain training in CBIT (Cognitive Behavioral Intervention for Tics) in preparation for collaborative research studies. Reiner's training will enable RCHSD to provide behavioral therapy for tics/Tourette patients – a service not previously available. Dr. Trauner is a member of the newly formed Sturge Weber Foundation Center of Excellence at Rady Children's Hospital which provides multidisciplinary care for patients with SWS.

RESEARCH

From June to December, 2011, 12 publications were authored by 7 Division members. Drs. Grossmann and Haas have been included as associate investigators for the protocol "Clinical and Molecular Manifestations of Neuromuscular and Neurogenetic Disorders of Childhood" with principal investigator Carsten Bonnemann. Dr. Trauner received a grant from the Cystinosis Research Foundation to study quality of life in adults with nephropathic cystinosis.

EDUCATION

Dr. Mower was awarded the 2011 Junior Faculty Teaching Award by the UCSD Neurosciences Department. Dr. Harbert is lecturing to the first and second-year medical students in the new "Mind, Brain and Behavior" course at the UCSD School of Medicine. Dr. Friedman won First Place/Gold for the 15th International Congress of Parkinson's Disease and Movement Disorders - VO Games Patient Presentation. Dr. Grossmann sat on the panels of experts at the Annual Meeting of Becker Nation and the MDA Annual Educational Seminar.

Division of Pharmacology & Drug Discovery

CLINICAL

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

RESEARCH

In the 6-month period from June-December 2011, Faculty Members of the Division published > 40

new manuscripts in the peer reviewed literature in journals including *Nature Genetics*, *Nature Immunology*, *Nature Reviews Microbiology*, *PLoS Pathogens*, *Biological Chemistry*, *Pediatrics*, *Antimicrobial Agents & Chemotherapy*, *Pediatric Infectious Disease Journal*, and *Clinical Infectious Diseases*. The Division initiated its NIH/NICHHD-funded \$500,000/year U54 Program Center for "Developmental and Translational Pharmacology of Pediatric Antimicrobial Therapy" that is part of a national network of four Research Programs in Developmental Pharmacology. Investigators in this new Center include Division Members Edmund Capparelli (PI), Victor Nizet (co-PI), Brookie Best, Adriana Tremoulet, George Sakoulas, and Steven Rossi, as well as Pediatrics faculty John Bradley (Infectious Diseases) and Sanjay Nigam (Neonatology). Dr. Nizet received two new NIH/NIAID grants to study novel pharmacological strategies to block bacterial virulence factors or boost phagocytic cell activity against antibiotic resistant pathogens. Dr. Capparelli is the Chair of the Pharmacometrics Core for the NIH/NICHHD 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 has embarked on a new grant to discover Kawasaki Disease biomarkers with support from a Biomedical Research Grant from The Hartwell Foundation. UCSD Pediatrics has recruited a world-renowned researcher in the fields of malaria and drug discovery, Elizabeth Winzeler PhD from the Scripps Research Institute, to join the faculty of the Division of Pediatric Pharmacology and Drug Discovery beginning in March 2012.

EDUCATION

Dr. Brookie Best continues to direct 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 NICHHD, the program continued to expand with >30 pre-doctoral pharmacy trainees completing projects in 2011, supported by additional NIH grants, several different pharmaceutical companies, and the UCSD CTRI. Dr. Edmund Capparelli directs a joint UCSD/Pfizer Post-doctoral Fellowship program in Clinical Oncology. Dr. Nizet directs the Microbiology/Immunology Track in the UCSD Biomedical Sciences Graduate Program.

Division of Rehabilitative Medicine

CLINICAL

Division of Rehabilitative Medicine welcomes Dr. Wendy Lin as a faculty member. Clinically, the Division continues to provide care to children in San Diego, Imperial and Southern Riverside Counties with disabilities. The clinical activities have expanded to include several additional CCS specific clinics including Pediatric Rehabilitation, Acquired Brain Injury, and Spinal Cord Injury as well as participation in the Neuro-Oncology Comprehensive Care clinic. Several additional clinics continue to grow in volume and resources including Cerebral Palsy/Spasticity, Spinal Defects, Muscle Disease, Limb Deficiency, Intrathecal Baclofen Pump Program, and the Chronic Pain Program. The expansion of regularly scheduled procedures with sedation has been highly utilized by our patient and families. The acute inpatient rehabilitation service continues to provide the only acute inpatient rehabilitation service in the region.

RESEARCH

Dr. Skalsky and Lin continue to be involved in the development of industry sponsored clinical trials in spasticity management including botulinum toxin and intrathecal baclofen. Dr. Skalsky and Lin have produced invited peer reviewed manuscripts in the areas of neuromuscular disorders and cerebral palsy. Dr. Skalsky continues to participate as an invited reviewer for several peer review journals.

EDUCATION

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. Students from UCSD have also participated in Pediatric Rehabilitation Medicine Elective rotations. Community outreach patient and family education presentations have been given around the San Diego region. The Division has participated in local and national meeting presentations in the areas of cerebral palsy, spina bifida, and muscular dystrophy.

Division of Respiratory Medicine

CLINICAL

The Division has maintained its ranking in the U.S. News and World Report list of Top Children's Hospitals in Pulmonology. Inpatient services have recently been enhanced by expansion of the interdisciplinary Pulmonary Pod for care of patients with significant lung and breathing disorders needing specialized respiratory care and technology. Rady Children's Hospital is among the first recipients of a grant from California Children's Services for the San Diego Kids Care Pilot Demonstration Project, which aims to improve care for children with Cystic Fibrosis and other chronic diseases. The Division will host the childhood Interstitial Lung Disease (child) Foundation's annual meeting in June, along with a state-of-the-art national scientific conference on chILD disorders: <http://cme.ucsd.edu/dld2012>.

RESEARCH

Division Faculty continue to carry out high-impact investigations in the biology of oxygen and carbon dioxide (Haddad Lab), epithelial chloride and bicarbonate transport (Quinton Lab) and pulmonary fibrosis (Hagood Lab). Our senior clinical fellow, Dr. Akong, was recently awarded a KL2 Postdoctoral Award by the UCSD Clinical and Translational Research Institute (CTRI). Division faculty continue to present their research findings at conferences and invited lectures worldwide.

EDUCATION

Faculty members have been recognized by students and residents for excellence in teaching. The Pediatric Pulmonology Fellowship Training Program, which started in 2009 and is under the leadership of Drs. Pian and Lesser, has received full five-year accreditation from the Accreditation Council for Graduate Medical Education (ACGME), an important accomplishment for such a young program.

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. We have enhanced our curriculum with new program developments in the night curriculum for the inpatient rotations, as well as an interactive mock and comfort code program to provide real time simulation training for residents. All residents 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. The Residency Program is well poised to enter the new ACGME accreditation cycle set forth by the Accreditation Council for Graduate Medical Education. Having continued stable accreditation, the program leadership can concentrate on creating innovative projects to enhance resident education and training.

Many of our residents are actively pursuing mentored research and have been invited to present at national meetings as well as successfully publish their work in high impact journals. We look forward to another exemplary year of training tomorrow's pediatricians.

We are delighted to have our New Intern Class of 2015, begin in the summer of 2012:

New Intern Class of 2015

Jane Bugea, MD	UC San Diego
Gordon Cheng, MD	UC San Diego
Mackenzie Coffin, MD	UC San Diego
Elizabeth Duong, MD	Eastern Virginia University
Michelle Edmunds, MD	University of Washington
Jennifer Giboney, MD	UC San Francisco
Lourdes Herrera, MD	Oregon Health and Science University
Nancy Hoo, MD	Mount Sinai School of Medicine
Begem Lee, MD	Dartmouth
Daniel Lichtmann, MD	University of Southern California
Rachel Moore, MD, PhD	Albert Einstein

UCSD MED/PEDS Residency Match – 2016:

Mai Duong, MD	UC San Diego
Christine Fukumoto, MD	Creighton University
Constance Chace, MD, MPH	University of Massachusetts
Nicole Ketring, ME	UT Southwestern

Recent scholarly developments by the residents include notable publications and presentations

over the past 6 months. Nicole Coufal, MD, PhD, was the first author on a research publication co-authored with Dr. Alysson Muotri, an assistant professor in the Pediatrics Division of Genetics. Their research paper was entitled, 'Ataxia-Telangiectasia Mutated (ATM) modulates long interspersed element-1 (L1) retrotransposition in human neural stem cells,' and was published in the December 20th, 2011 issue of *PNAS*. Eric Reed, MD, won Best Resident Presentation Award at the 35th Annual Midwest Pediatric Cardiology Society Scientific Session in September, 2011. His presentation was entitled 'Aortic Root and Main Pulmonary Artery Areas Derived from Cardiovascular Magnetic Resonance as Reference Values for Normal Subjects and Repaired Tetralogy of Fallot.' Hannah Walford, MD, presented on the 'Prevalance of Kawasaki Disease in Young Adults with Suspected Myocardial Ischemia' in November, 2011, at the American Heart Association Conference.

AWARDS & RECOGNITION



[UC San Diego School of Medicine Names Feldstein as New Division Chief for Pediatric Gastroenterology and Nutrition](#)

July 1, 2011, La Jolla, CA – The Department of Pediatrics, UC San Diego, Rady Children’s Hospital-San Diego, names Ariel Feldstein, MD, as the Division Chief for Pediatric Gastroenterology and Nutrition. Feldstein joins the Department of Pediatrics from the Cleveland Clinic in Cleveland, Ohio, where he was the Director of Research for the Pediatric Institute.



[Sander Receives 3 Transformative Collaborative Project Awards from Beta Cell Biology Consortium \(BCBC\)](#)

August 24, 2011, La Jolla, CA - Dr. Maike Sander, Associate Professor in Pediatrics and Cellular & Molecular Medicine, was awarded over \$2M collectively in 3 Transformative Collaborative Project Awards from the Beta Cell Biology Consortium (BCBC).



[Sivagnanam Receives 2011 NASPGHAN Young Faculty Investigator Award](#)

September 19, 2011, La Jolla, CA – Dr. Mamata Sivagnanam, Asst. Professor and physician-scientist in the Division of Pediatric Gastroenterology, Hepatology and Nutrition at UC San Diego and Rady Children’s Hospital-San Diego, was awarded the NASPGHAN Young Faculty Investigator Award for 2011.



[Gahagan named Chief of New Pediatrics Division at UC San Diego](#)

September 26th, La Jolla - Sheila Gahagan, M.D., M.P.H., Professor of Clinical Pediatrics and Division Chief of Child Development and Community Health, has been recently appointed as Division Chief of Academic General Pediatrics, joining this group with the Division of Child Development and Community Health.



[UC San Diego’s Alysson Muotri Named 2011 PopTech Science and Public Leadership Fellow](#)

December 4, 2011, La Jolla, CA - Dr. Alysson Muotri, Assistant Professor in the Department of Pediatrics/Cellular & Molecular Medicine, University of California, San Diego was named a 2011 PopTech Science and Public Leadership Fellow. He presented at the prestigious PopTech! Conference in Maine this past fall, on how he uses stem cells to understand autism.

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*

MUOTRI, ALYSSON R, 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 JULY-DECEMBER 2011

BARSHOP, BRUCE: \$77, 271.00

Genetic factors involving expression of 3-methylcrotonyl-CoA carboxylase deficient

Awarded by: NIH (NICHD) NATL INST OF CHILD HEALTH

CAPPARELLI, EDMUND: \$185,606.00

IMPAACT Pharmacology Core Lab

Awarded by: SOCIAL AND SCIENTIFIC SYSTEMS, INC

CAPPARELLI, EDMUND: \$770,953.00

Developmental and Translational Pharmacology of Pediatric Antimicrobial Therapy

Awarded by: NIH (NICHD) NATL INST OF CHILD HEALTH

CAPPARELLI, EDMUND: \$224,801.00

Pediatric Trial Network - Task 1

Awarded by: DUKE UNIVERSITY

CHAMBERS, CHRISTINA: \$4,465,948.00

Validation of the Asthma Control Test During Pregnancy

Awarded by: GLAXOSMITHKLINE

CHEUNG, WAI : \$150,000.00

The impact of ghrelin on nutrition and cardiovascular mortality in chronic kidney disease

Awarded by: SATELLITE HEALTHCARE, INC

DOHIL, RANJAN : \$120,000.00

Food-Effect on Bioavailability of Cystagon8482 in Normal, Healthy Adults

Awarded by: RAPTOR PHARMACEUTICAL CORP.

DOHIL, RANJAN : \$194, 250.00

Two year funding proposal for Betty Cabrera, B.S., MPH
 Awarded by: CYSTINOSIS RESEARCH FOUNDATION

FRAZER, KELLY: \$766, 920.00

Regulatory Genomic Studies In A Cohort Of Ips Cell Derived Cardiomyocytes
 Awarded by: NIH (NHLBI) NATL HEART, LUNG & BLOOD

FREITAS, BEATRIZ: \$95,000.00

Fellowship PEW
 Awarded by: PEW CHARITABLE TRUSTS

FRIEDMANN, THEODORE: \$100,000

Informatics, Cross-Study Analysis and Molecular Signatures for the Detection of Doping
 Awarded by: WORLD ANTI-DOPING AGENCY (CANADA)

HELDT, GREGORY: \$ 89,280.00

An Acoustic Respiratory Movement Sensor (ARMS) for Non-invasive SIMV in Infants
 Awarded by: BIODATA INNOVATION SYSTEMS, LLC

KING, CHARLES C.: \$435, 090.00

Biological relevance of microRNAs in hESC differentiation to endocrine pancreas
 Awarded by: CALIFORNIA INSTITUTE FOR REGENERATIVE MEDICINE

MUOTRI, ALYSSON : \$ 377,936.00

The impact of L1retrotransposition in the nervous system
 Awarded by: NIH (NIMH) NATL INST OF MENTAL HEALTH

MUOTRI, ALYSSON : \$149,013.20

Modeling transcellular spreading of cerebral proteinopathies in chimeric mouse brains system
 Awarded by: HOFFMANN-LA ROCHE LTD

NIGAM, SANJAY : \$ 417,049.60

Defining the effects of Uloric (Febuxostat) on chronic renal disease, kidney stones and hypertension due to hyperuricemia
 Awarded by: TAKEDA CHEMICAL INDUSTRIES, LTD

PHILLIPS, SUSAN: \$ 223,659.00

Studies to Evaluate the Relationship Between Cysteamine and Adiponectin
 Awarded by: RAPTOR PHARMACEUTICAL CORP.

SANDER, MAIKE: \$ 208,631.00

Investigation of New Permissive Environments for Beta Cell Engraftment

Awarded by: VANDERBILT UNIVERSITY (TENNESSEE)

SANDER, MAIKE: \$ 394,081.00

Enhancer-based beta-cell programming strategies

Awarded by: VANDERBILT UNIVERSITY (TENNESSEE)

SANDER, MAIKE: \$ 160,723.00

3D Growth of Human Pancreatic Tissue from PSC's

Awarded by: VANDERBILT UNIVERSITY (TENNESSEE)

SCHWIMMER, JEFFREY: \$ 285,604.00

Clinical Reserach on Nonalcoholic Fatty Liver Disease

Awarded by: COLUMBIA UNIVERSITY

SPECTOR, STEPHEN: \$536,310.00

Pediatric HIV/AIDS cohort study Initiative (SMARTT Study)

Awarded by: HARVARD UNIVERSITY

SPECTOR, STEPHEN: \$441,559.00

International Maternal Pediatric Adolescent AIDS Clinical Trial Group

Awarded by: SOCIAL & SCIENTIFIC SYSTEMS, INC.

SPECTOR, STEPHEN: \$ 790,634.00

Host Genetic Factors Associated with CNS Disease of HIV-Infected Children

Awarded by: NATIONAL INSTITUTES OF HEALTH

TOM, WYNNIS: \$ 132,300.00

Genetic Influence in Pediatric Psoriasis Disease

Awarded by: NATIONAL INSTITUTES OF HEALTH

YU, ALICE: \$ 100,000.00

Predicting outcome and Ameliorating Toxicities of the Immunotherapy of Neuroblastor

Awarded by: ALEX'S LEMONADE STAND FOUNDATION

YU, ALICE: \$ 81,533.00

Role of antibodies to non-human glycans in immunotherapy of neuroblastoma

Awarded by: ST. BALDRICK'S FOUNDATION

YU, ALICE: \$ 88,239.00

Children's Oncology Group (COG) Chair's Grant

Awarded by: NATIONAL CHILDHOOD CANCER FOUNDATION



Department of Pediatrics • 3020 Children's Way, MC 5109 • 92123-5109
<http://www.pediatrics.ucsd.edu>

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