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"There is nothing like looking, if you want to find something. You certainly usually find something, if you look, but it is not always quite the something you were after."

J.R.R. Tolkien, 1892-1973
 English Writer and Author of the richly inventive epic fantasy The Lord of the Rings

These are musings about the value of research. We already know their basic truth: we'll not find the answers to our most important questions without looking and, when we do look, incredible, unexpected results are possible. Quite simply, everything we do in every walk of life is the result of research: an idea or need generating creativity and inquiry, design, performance, analysis, and communication. Research is a process with necessary elements of commitment, patience and determination, and mentoring. Mostly, it is about discovery. And discovery has two fundamentally essential components: having the right idea at the right time. Sometimes the idea needs cultivation, and sometimes the nascent harmony between the concept and timing needs support. This is the mission of the SPR REF. The Foundation supports discovery that potentially advances our understanding of the science of imaging and the potential benefits for pediatric healthcare.

In 2010, the SPR Research and Education Foundation marks 20 years of supporting investigators asking questions involving pediatric imaging. These are the questions that need asking; questions that need answers. Since the Foundation has done this with your support and the support of your colleagues, this celebratory report will try to answer this question: How have we done? And where might we need to go next?



"Research is to see what everybody else has seen, and to think what nobody else has thought"

— Albert Szent-Gyorgyi, 1893-1986 Hungarian Biochemist 1937 Nobel Prize — Medicine

### 22 year history - 20 year Funding history:

### 1 9 8 8

November – the SPR Board of Directors segregated funds from the SPR reserve as an Educational Fund. The Resolution, written by Dr. Diane Babcock, then SPR Treasurer, and unanimously approved by the Board, stated:

Resolved, that the Society shall sponsor a Fund to be

known as the Education Fund for the purpose of furthering the scientific, educational, and professional endeavors of the Society.....

In the summer of 2010, Dr. Babcock commented on the beginning of the Foundation by recalling: The R&E foundation was started with excess funds from the first IPR'87 held in Toronto. Then President, Derek Harwood Nash, was so successful raising funds for that inaugural meeting that when the bills were paid, significant funds remained. Dr. Babcock further states: "SPR owes a debt of gratitude to Derek for his foresight in seeing the need for funded Research. Dr. Harwood-Nash was president of the ASNR that same year and when asked him how he could find time to do both, he said" When the music plays, you've got to dance."





### "Somewhere, something incredible is waiting to be known."

Dr. Carl Sagan, 1934-1996
 American Astronomer, Writer and Scientist

This reflection is important for several reasons.

- The Foundation has a responsibility to its membership to provide not only annual details of the Foundation activities, but a more comprehensive assessment of the enduring mission;
- There is an increasing call for transparency in medicine and accountability for actions and outcomes;
- Medicine is constantly evolving and review of the Foundation's impact and needs must keep pace with, and in some cases anticipate, these changes;
- The SPR may benefit from a periodic review and prospectus of the REF when addressing its needs, including SPR's impact with professional organizations as well as regulatory or governmental agencies, industry or the public;
- Economic shifts and uncertainties provide increasing difficulties for funding in medicine and judicious review and analysis in trends of funding within the REF is increasingly important;
- Trends in successful or unsuccessful funding may be identified.

The 2009-2010 REF Board members will provide information to begin to address these issues through a review of REF activities and events over the two decades since the first funding began. This information includes the investigators supported, grants awarded, the dollars collected, the growth in investments, and the results of the grants and, finally, some musings of both donors and researchers. Taken together, we hope these different approaches will form an accurate picture of what, together we have accomplished for children, and what new opportunities may be afforded based on this legacy of the SPR Research and Education Foundation.

This legacy, through the inspiration and insight of the leaders and membership serves not only to support and encourage those leaders of the future, but to recognize outstanding contributions in the care of children through several enduring named awards.

Donald P. Frush, MD

President, SPR Research and Education Foundation

### 1 9 8 9

### William McAlister, MD – First Chair, Research and Education Committee

Dr. McAlister also commented on the Foundation's beginnings for this report:

I have fond memories of those early days. I most vividly recall the spirited discussions on every aspect of this new venture: what should be funded? how to raise funds? should education be included in the mission? Ultimately, when we reached consensus, we began with small grants designed to jumpstart our members' research efforts.

No record of the Foundation's beginnings would be complete without mentioning the essential contributions of two SPR leaders: Drs. Derek Harwood-Nash and Don Kirks. They had the elegant idea to segregate the proceeds of the first IPR meetings (1987 and 1991) to form this funding source for pediatric radiology research.

Those of us who were there at the beginning are pleased and proud of what the Foundation has accomplished and what it stands for today. We wish the next generation of SPR research leaders the very best.



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# Research and Education Foundation Treasurer's Report

I am pleased to serve the Society and the SPR Research and Education Foundation in my role as Treasurer.

I am all the more pleased because each of my predecessors have ably shepherded the original \$250,000 (segregated in 1987 and 1991) for the purpose of research and education), additional periodic transfers from the SPR reserves and the steady donations from the membership, to a balance of \$1,396,475.84 at 2009 year end. This achievement is all the more to be celebrated when we note the Foundation has been spending all these years too: grant support to the community at 2009 year end totaled \$760,000 for 80 projects.

SPR's tradition is to audit the books of the Society and Foundation the year of the transfer of the treasurer. Therefore, the Society and Foundation will be audited for the fiscal year 2010. I will report on this at the Members' Business meeting in London.

I want to thank my predecessors for their clear-eyed vision, expertise and wisdom, allowing me to assume this position with sound financial policies and funding guidelines in place.

### For the record:

**SPR Treasurers** 

Diane S. Babcock, MD (1986-1989) – developed the proposal to segregate the funds to establish the funding source.

Ina D. Tonkin, MD (1989-1992)

The SPR Research and Education Foundation was separately incorporated and obtained 501 (c)(3) status in 1994:

David C. Kushner, MD, Secretary-Treasurer (1992-1995)

Wilbur L. Smith, MD, Secretary-Treasurer (1995-1998)

Danielle K.B. Boal, MD, Secretary-Treasurer (1998–2001)

Richard Jaffe, MD, Treasurer (2001–2004)

L. Chris Foley, MD, Treasurer (2004–2007)

Richard A. Barth MD, Treasurer (2007–2010)

### 1 9 9 0

First awards Granted

Effect of Methotrexate on Bone Density During Growth - John G. Curran, M.D.; University of California -

Los Angeles Medical Center

MRI Of Ischemic Damage to the Growth Mechanism - Diego Jaramillo, M.D.; Massachusetts General Hospital

Colonic Perforation in the Juvenile Porcine Model -William E. Shiels, D.O.; Children's Hospital Medical Center, Cincinnati Detection of Subclinical Cerebrovascular Disease in Patients with Homozygous Sickle Cell Disease - SS Ortiz, M.D.; Children's Hospital of Los Angeles; Comparison of Radiographic and MRI Evaluation of the Craniocervical Junction in Down Syndrome - Keith White, M.D.; Children's Hospital Medical Center, Cincinnati

1990 - Mike Ozonoff, MD – Chair, Research and Education Committee

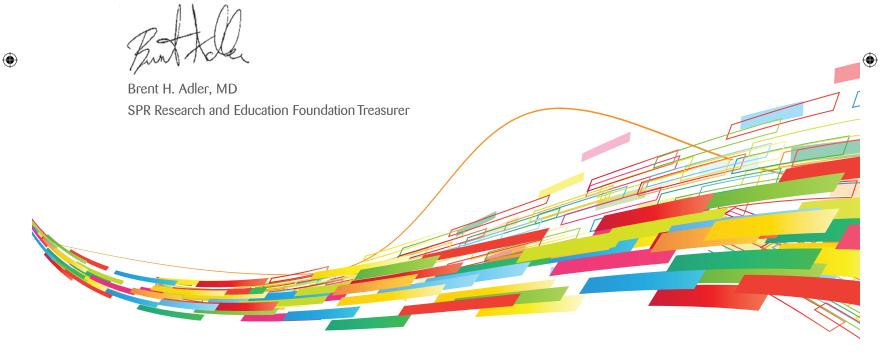




In 2005, under the guidance of then Board Chair, Dr. David Kushner, the SPR and the SPR REF agreed on a financial relationship with both clear lines of delineation and a forthright statement of their shared purpose. Dr. Richard Barth worked closely with the Finance Committee in 2009 to develop a formula for determining the appropriate funding levels each year. As Chair of the Finance Committee then, I can attest to the hours of investigation Dr. Barth devoted to developing a process that safeguards the Foundation's resources while, annually, making the largest amount possible to fund the future of pediatric radiology inquiry.

Anyone who donates appreciates knowing how their dollars will be used. As an SPR member, I am glad to know that the administrative costs of the Foundation are paid by the SPR, so my donation goes directly to support a colleague's good idea or to enlarge the corpus of the REF.

I encourage you to support the SPR Research and Education Foundation with your annual donations. Speak with your financial advisors about how to support both the people and causes you care about. On behalf of the Board of Directors of the SPR Research and Education Foundation, we hope that the Foundation will be one of those causes.



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1991 - Joanna Seibert, MD – Chair, Research and Education Committee

1992 - Eric Effmann, MD – Chair, Research and Education Committee

1993 - Ken Fellows, MD – Chair, Research and Education Committee 1994 - Diane Babcock, MD – Chair, Research and Education Committee

1994 – the Foundation was established as a separate 501 c 3 organization

1994 - Charles Gooding – President, Research & Education Foundation Board to 1996 1997 - Janet Strife, President, Research & Education Foundation Board to 2000

1999 – Millennium Grant awarded

2000 - David Kushner, MD President, Research & Education Foundation Board – to 2003 2000 – SPR's Campaign for Children Launched

2002 – Heidi Patriquin Award Fund Launched at the initiation of Dr. Diane Babcock

2002 - First SPR Foundation Art Show held in Philadelphia





## By the numbers - at the end of 2009:

The Foundation was seeded with SPR's share of the 1987 and 91 IPR meeting proceeds: \$150,000 and \$100,000, respectively.

The Foundation has funded 80 projects totaling \$760,000.

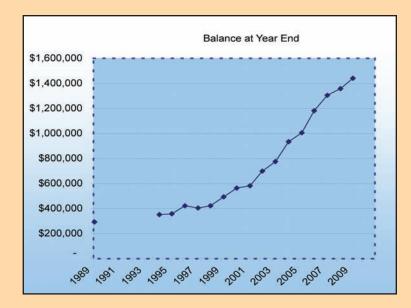
The smallest award was \$1025 -

The largest, \$40,000

Until 2003, most funded projects received \$5,000 or less

In 2003, the upper limit for seed grants was increased to \$10.000

37 different institutions have received funding.



### Institutions Funded by the SPR Research and Education Foundation 1990-2010

A.I. duPont Hospital for Children, Wilmington, DE Arkansas Children's Hospital, Little Rock, AR

Austin Radiological Association, Austin, TX

Boston Children's Hospital, Boston, MA (12)

Brigham and Women's Hospital, Boston, MA

Children's Hospital of Philadelphia, Philadelphia, PA (4)

Children's Memorial Hospital, Chicago, IL (2)

Children's National Medical Center, Washington, DC

Christiana Hospital, Newark, DE

Cincinnati Children's Hospital, Cincinnati, OH (4)

Cleveland Clinic Children's Hospital, Cleveland, OH (6)

Columbia Presbyterian Medical Center, New York, NY

Columbus Children's, Dublin, OH (2)

Duke University Medical Center, Durham, NC (4)

Great Ormond Street Hospital for Children, London, England

Hospital for Sick Children, Toronto, ON, Canada (4)

Indiana University Hospital, Indianapolis, IN

Loma Linda University Children's Hospital, Loma Linda, CA (3)

Mallinckrodt Institute of Radiology, Saint Louis, MO (4)

Massachusetts General Hospital, Boston, MA (4)

Miami Children's Hospital, Miami, FL (2)

New York University Hospital, New York, NY

Primary Children's Medical Center, Salt Lake City, UT (2)

Rainbow Babies & Children's Hospital, Cleveland, OH

Riley Children's Hospital, Zionsville, IN

St Jude Children's Research Hospital, Memphis, TN (2)

Stanford University, Stanford, CA (3)

Stollery Children's Hospital, Edmonton AB, Canada

Tripler Army Medical Center, Honolulu, HI

University of California in San Francisco, San Francisco, CA (2)

University of Florida, Gainesville, FL

University of Florida, Saint Petersburg, FL

University of Iowa Hospitals & Clinics, Iowa City, IA (2)

University of Michigan, Ann Arbor, MI

University of Minnesota, St. Paul, MN

University of Virginia HSC, Charlottesville, VA

Vanderbilt Children's Hospital, Nashville, TN (2)

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2003 - George Taylor, President, Research & Education Foundation Board to 2005

2004 – Jack Haller Fund Established at the initiation of Dr. Tom Slovis 2004 – Thanks to Dr. Hooshang Taybi, Art Show at 2004 meeting spontaneously becomes an Auction to benefit the REF

2006 - Ines Boechat, President, Research & Education Foundation Board to 2008

2005 – Second annual award cycle offered for Seed grants

**2006 – Fund Balance reaches \$1,000,000** 

2007 – Art Show and Auction renamed Hooshang Taybi Memorial Art Show and Auction

2008 – Dorst Fleischner Seed Grant Established at the initiation of Dr. Jerald Kuhn. 2009 - Donald Frush, President, Research & Education Foundation Board to 2011

2010 – Establishment of the SPR Pilot Award.

2010 integration with common application program through RSNA Interorganizational Research Committee (I think that is IORC)

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## Past Presidents' Program

In 2000 as a component of the Campaign for Children fundraising effort, Drs. Marilyn Goske and Stuart Royal developed a special fundraising outreach program to past presidents. The past presidents listed below have responded with continuing support of the Campaign for Children.

Diane S. Babcock
David Huntington Baker
Walter Evan Berdon
Virgil Raymond Condon
Eric L. Effmann

Marilyn Joan Goske Marta Hernanz-Schulman Neil David Johnson Jerald Kuhn David C. Kushner William Herbert McAlister Bruce Robert Parker Stuart A. Royal Edward Bivens Singleton Thomas Laurence Slovis Janet Lang Strife Hooshang Taybi Richard Bruce Towbin Lionel Wesley Young



**Virgil and Marilyn Condon** commented on their leadership gift: "We are sincere supporters of the SPR Research and Education Foundation and the effort it makes to improve the care of children."



**Stuart and Barbara Royal:** "Advancing the specialty of pediatric radiology is all about research. My commitment as a private practice radiologist is to give back to the SPR by supporting the Foundation financially. My experience with SPR? I have gained much more than I have given."



As we advance the field of pediatric radiology, we have the opportunity to create a world-wide impact on the care for children." — Hooshang Taybi, MD



"With a strong funding source, we know our members could have a greater impact – first on the practice of pediatric radiology and ultimately on the standard of care for children."

Edward Bivens Singleton, MD

**Dr. Hooshang Taybi,** a recognized and beloved artist, was the inspiration for transforming the Members Art show into an Auction on behalf of the Foundation when he spontaneously offered his jewelry and textile work for sale at the Annual meeting in Savannah – 2004. The event was re-named in Dr. Taybi's memory, following his death in 2006.





### Past Grant Recipients Survey

Past Grant Recipients voluntarily responded to a survey asking for their assessment of the impact of the SPR Research and Education Foundation awards on their careers:

### Diego, Jaramillo, MD – Award Year 1990

### **Project:**

MR Imaging of Ischemic Injury to the Growth Mechanism

### Impact:

The SPR REF award was crucial in inspiring me to pursue funded research and in allowing me to collect preliminary data to pursue larger grants.

### Joanna Seibert, MD – Award Year 1991

### **Project**

"Detection of Cerebral Vascular Disease in Patients with Sickle Cell Anemia Using Duplex Transcranial Doppler with MR Angiographic Correlation"

### Impact:

From the grant, we have had at least 15 articles, over 50 presentations and numerous book chapters. The grant was so helpful, first in helping us know that someone else thought our work was worthwhile, but in giving us a start up. I so appreciate this commitment of the SPR to research. It really made a difference in my work and my life.

### **Steven Don, MD – Award Years – 1992, 1994, 2009**

### **Projects:**

"Comparison of Digital and Film Screen Radiography for the Detection of Pneumothorax in an Animal Model"

"Comparison of Computed Radiography with Film-Screen Radiography in Detecting Pulmonary Edema in a Rabbit Model Simulating Hyaline Membrane Disease"

"Mathematical Modeling of Pediatric Pulmonary Nodules"

### **Impact**

The small grants have been helpful in securing additional funding. They are seen by other funding agencies as important first steps because the SPR viewed them as important topics.

### **George Taylor, MD - Award Years 1993, 1995, 1997**

### Projects:

Ultrasound Characterization and Demonstration of Hemodynamic Effects in Experimental Neuronal Injury" "Quantification of Renal Blood Flow with Color Doppler Energy and Perflurocarbon-based Micro-bubble Contrast Media" "Changes in Regional Renal Blood Flow During Hypotension: Evaluation with Contrast-Enhanced Grey-scale Harmonic US."

### Impact:

SPR REF support allowed me to start up a lab, learn how to write a grant and apply for serious support. It was a tremendous start for me- thank you!

### Peter Strouse, MD – Award Year 1996

### **Project:**

"Power Doppler Evaluation of Septic Arthritis: A Rabbit Model"

### **Impact**

Very positive. Exposed me to research in the lab, grantsmanship, collaboration, presenting, writing a paper.

### Sue Kaste, DO – Award Year 1997

### **Project:**

Evaluation of Bone Density in Survivors of Childhood Acute Lymphoblastic Leukemia All-Treated on a Single Institutional Protocol,

### **Impact**

- 1. Provided external validation of research into BMD in childhood cancer survivors
- 2. Due to 1. Prompted release of institutional funds to support
- 3. Planted the "seed" for long-term growing research initiatives
- 4.Identified "at-risk" cohort for which BMD deficits had not truly been identified
- 5. Due to 4., prompted prospective monitoring of BMD
- 6.Due to 4. and 5., prompted development of interventions to improve BMD
- 7. Contributed to escalating initiatives at our institution to research "late skeletal toxicities"
- 8. Prompted multiple attempts at procuring additional extramural funding
- 9. Largely defined my research career

### Simon Kao, MD - Award Year 1998

### **Project:**

"Computerized Stereological Quantitation of Pediatric Tumor Volume"

### **Impact**

It has provided me with equipment and software program to allow analysis of data collected in clinical practice.

### Paul Babyn, MD – Award Year 1998

### **Project:**

Enhanced Sonography with Harmonic Imaging in Experimental Acute Pyelonephrosis in Piglets"

### **Impact**

The SPR grant helped establish interest in more basic research in my department. My personal research time however has been more limited by increased administration.





## Past Grant Recipients Survey

### Mary Elizabeth McCarville, MD – Award Years 2001 and 2008

### **Projects:**

"Determination of Optimal Dose and Safety Profile of Optison Ultrasound Contrast Agent in Pediatric Solid Tumor Patients" "A Pilot study of PET-CT in the assessment of pulmonary nodules in children with malignant solid tumors

### Impact:

They have been a boost to my career. The funding helped to cover expenses of the project which was looked upon favorably by administration. It also brought recognition to me and my work.

### Nancy Fefferman-Katz, MD - Award Year 2002

### **Project**:

"Low-Dose CT Evaluation Of Suspected Appendicitis In Children"

### Impact:

The SPR REF award enabled me to focus my research interests on radiation dose reduction in pediatric imaging. I have continued to pursue research projects addressing the question of image optimization in the setting of radiation dose management. These projects relate to CT and fluoroscopy. The monies from the seed grant award were used to purchase materials for construction of phantoms for pediatric CT studies. These phantoms will be used again in an upcoming project.

### Heike E. Daldrup-Link, MD – Award Year 2005

### Project:

"Imaging of Arthritis with DiD labeled leukocytes"

### Impact:

The award provided me with my first peer-reviewed seed grant after my immigration from Europe to the US and helped me significantly to start a career as an academic radiologist in the US.

### Ana Gaca, MD – Award Year 2005

### **Project:**

"Development and Assessment of Resources for management of Emergent or Life Threatening Conditions in Children in the Radiology Setting"

### Impact:

The funding allowed the completion of this particular project, and lead to a subsequent project also centered around resident preparedness to handle an adverse event in the radiology setting. These projects combined gave me the opportunity to present at national meeting and publish my findings.

### Sabah Servaes, MD - Award Year 2006

### **Project**

Fetal MRI Features of Clubfoot in Patients with Myelomeningocele"

### **Impact**

The SPR REF award has been a positive influence on my career. Working on the application, receiving the award, and pursuing the research have been very rewarding and inspired additional research.

### Jason Dearling, MD - Award Year 2008

### **Project**

"PET Imaging in the Early Detection of Response to Neuroblastoma Differentiating Therapy"

### Impact:

The award from the SPR came at a very important time in my career. I am in the process of making the difficult transition to being an independent researcher, and receiving this award has given me valuable experience of the grant application and administration process. In addition, we have obtained some very interesting data that will form the foundation for further grant applications this year.

### Shreyas Vasanawala, MD – Award Year 2008

### **Project**:

Evaluation of Pediatric Diseases with Hyperpolarized Carbon-13 MRI

### Impact:

The full impact is not clear, but so far, the award has enabled our project to get started and for us to obtain enough preliminary results for a larger grant.

### John D. MacKenzie, MD – Award Year 2008

### **Project**

"Evaluation of Pediatric Diseases with Hyperpolarized Carbon-13 Magnetic Resonance Imaging"

### Impact:

The grant has been crucial in helping me generate preliminary data for additional funding and meeting abstracts. This month I submitted an NIH K08 training grant which is based on the seed grant from the SPR. After several more experiments this spring, I anticipate on submitting the results of this work for publication.

### Beverly Wood, MD, PhD – Award Year 2008

### **Project**

Developing an online teaching guide

### **Impact**

Heavy use by program directors, presenters, and residents in pediatrics. One module is featured on the AAP Resident Center each month.





### 2010 Awards

Seed Grant

Pilot Study of Neuroimaging Predictors of Cognitive Impairment and Autistic Spectrum Disorder in Tuberous Sclerosis Complex Elysa Widjaja, MD Hospital for Sick Children, Toronto

Fellow Award

Whole Body Diffusion-weighted MR Scans for Cancer Staging in Pediatric Patients: A Radiation-free Alternative to FDG-PET Rakhee Gawande, MBBS
University of California – San Francisco

Jack Haller Award for Excellence in Education George A. Taylor, MD – Children's Hospital, Boston

Heidi Patriquin Award for International Education Dr Omolola Mojisola Atalabi - College of Medicine, University of Ibadan, Nigeria

Pilot Award

Motion-Robust, High Resolution MRI of Lungs with Ultra-Short TR/TE 2D SSFP and HASTE Sequences in Pediatric Patients with Cystic Fibrosis: Comparison to HRCT and Correlation with Pulmonary Function Tests Edward Lee, MD, MPH Children's Hospital, Boston

Thorne Griscom Award for Education in Pediatric Radiology Developing And Implementing A Sustainable Appropriately Designed Paediatric Radiology Fellowship & Teaching Program Within A Large Teaching Hospital In A Developing Country. Manohar Shroff, MBBS Hospital for Sick Children, Toronto

### 2009 Awards

John Dorst – Felix Fleischner Seed Grant in Thoracic Pediatric Radiology

Mathematical Modeling of Pediatric Pulmonary Nodules – Steven Don, MD – Washington University, Mallinckrodt Institute of Radiology, St. Louis, Missouri

### Seed Grant

T2 relaxation time mapping as a quantitative and objective measure of disease activity in children with muscular dystrophy (DMD): Emphasis on early detection of reversible inflammatory changes - Hee-Kyung Kim, MD, Cincinnati Children's Hospital

### 2009 Awards

Jack Haller Award for Excellence in Education Michael A. DiPietro MD - CS Mott Children's Hospital, Ann Arbor, Michigan

Heidi Patriquin Award for International Education Dr. Ahmed Mussa Jusabani (MD, M.MED Radiology) -Kilimanjaro Christian Medical Centre (KCMC),Moshi, Tanzania

### 2008 Awards

Thorne Griscom Award for Education in Pediatric Radiology

CT Radiation Safety in Children: A Model for a National Web-Based Continuous Quality Improvement Program - Marilyn J. Goske, MD - Cincinnati Children's Hospital, Cincinnati, Ohio

John Dorst – Felix Fleischner Seed Grant in Thoracic Pediatric Radiology

A Pilot study of PET-CT in the Assessment of Pulmonary Nodules in Children with Malignant Solid Tumors - Mary Beth McCarville, MD - St Jude Children's Research Hospital, Memphis, Tennessee

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### **Seed Grants**

Evaluation of Pediatric Diseases with Hyperpolarized Carbon-13 Magnetic Resonance Imaging - John D. MacKenzie, MD and Shreyas Vasanawala, MD, PhD – Lucile Packard Children's Hospital, Stanford, California

Optical Oximetry in Testicular Torsion - Harriet Paltiel, MD - Boston Children's Hospital, Boston, Massachusetts

The Next Iteration of a Universal Web-based Curriculum in Pediatric Radiology - Janet Reid, MD - Cleveland Clinic, Cleveland, Ohio

Second Cycle Seed Grant

PET Imaging in the Early Detection of Response to Neuroblastoma Differentiating Therapy -Jason L J Dearling, PhD, Children's Hospital, Boston and Harvard Medical School

Jack Haller Award for Excellence in Education Sara J. Abramson, MD - Memorial Sloan Kettering Cancer Center, New York, New York

Heidi Patriquin Award for International Education Rolando Reyna, MD - Hospital Santo Tomas - Panama City, Panama





### 2007 Awards

Second Cycle Seed Grant

[F-18] FDOPA Imaging of Brain Tumors in Children - Susan E. Sharp M.D., Cincinnati Children's Hospital

Fellow Award

Optimal Dose Regimen in Pediatric PET imaging - Roberto Accorsi, Ph.D., The Children's Hospital of Philadelphia

Heidi Patriquin International Fellowship Nathan David P. Concepcion, MD, FPCR - Marikina City, Philippines

Jack Haller Award for Excellence in Teaching Cindy Miller, MD Ya<u>le University School of Medicine</u>

### 2006 Awards

Second Cycle Seed Grant

The evaluation of static and ballistic stretching programs on muscle architecture and the physis of the skeletally immature child by MRI and DTI - J. Herman Kan MD, Vanderbilt Children's Hospital

N. Thorne Griscom Award for Education A Teaching Center to Foster Educational Excellence - Beverly P. Wood, MD, Loma Linda University Children's Hospital

Seed Grants

Fetal MRI Features of Club Foot Inpatients with Myeloneningocele - Sabah Servaes, MD, Children's Hospital of Philadelphia

T1 Mapping in Childhood Solid Tumors - Catherine Owens, MBBCH and Oystein E. Olsen, MD Hospital for Sick Children, London, England

SPR Fellow Award

Hyperpolarized 3He MRI in Pediatric Patients with Asthma: Assessment of Technology, Evaluation of Functional Ventilatory Status and Direct Clinical Application for Pediatric Patients Edward Lee, MD, MPH, Mentor - Faina Shtern, MD, Children's Hospital – Boston

Bridge Grant

2007 SPR Meeting Symposium Support - Marilyn J. Goske, MD - SPR President Elect

Heidi Patriquin International Fellowship Dr Hakima Al-Hashimi – Manama, BAHRAIN Juana Maria Vallejo, MD – Bogota, COLUMBIA Pannee Visrutaratna, MD – Chiang Mai, Thailand

Jack Haller Award for Excellence in Teaching William R. Cranley, MD and John F. O'Connor, MD - Boston University Medical Center

### 2005 Awards

Seed Grants

Development and Assessment of Resources for Management of Emergent or Life Threatening Conditions in Children in the Radiology Setting - Ana M. Gaca, MD, Department of Radiology, Duke University Medical System

In-DTPA-Pentetreotide Imaging for Diagnosis and Post-therapy Surveillance of Pediatric Central Nervous System Tumors -Geetika Khanna, MBBS, Department of Radiology, University of Iowa Hospitals and Clinics

SPR Fellow Awards

Imaging of Arthritis with DiD labeled leukocytes - Heike E Daldrup-Link, MD, Robert Brasch, MD, Ronald Arenson, MD, Professor and Chairman, Department of Radiology, University of California - San Francisco

MR Voiding Cystography Evaluation of Vesicoureteral Reflux - Shreyas S. Vasanawala, MD, PhD, Richard A Barth, MD, Gary Glazer, MD, Professor and Chairman, Department of Radiology, Stanford University

Heidi Patriquin International Fellowship Luy Lyda, MD, Angkor Hospital for Children, Siem Reap, Cambodia

Jack Haller Award for Excellence in Teaching Alan Daneman, MD

### 2004 Awards

Pulse Inversion Imaging of Testicular Torsion; Harriet Paltiel, MD, Boston Children's Hospital

Measurements of Epicardial and Visceral Fat: Correlation with Treatment Options; Marilyn Siegel, MD; Washington University

The N. Thorne Griscom Awards for Education in Pediatric Radiology

A Complete Web-Based Curriculum in Pediatric Radiology;" Janet Reid, MD, The Children's Hospital at the Cleveland Clinic

Development of a New Instructional Tool to Increase the Diagnostic Accuracy of Radiology Residents Interpreting Emergency Pediatric Neuroradiology Studies - Mark Halsted, MD Cincinnati Children's Hospital

Heidi Patriquin International Fellowship Berlin Melissa Go, M.D., Makati Medical Center, Makati City, The Philippines





### 2003 Awards

Research Awards

Development of a Lymphangioma Animal Model for Evaluation of Image-Guided Sclerotherapy Regimens - William E. Shiels, II; Children's Hospital, Columbus

Radiation Dose Resulting from Pediatric Chest CT Utilization - Sjirk Jan Westra, MD; Massachusetts General Hospital;

The Heidi Patriquin International Fellowship Kassa Darge, MD, Universität Würzburg

### 2002 Awards

**Seed Grants** 

Low-Dose CT Evaluation Of Suspected Appendicitis In Children - Nancy R. Fefferman, MD and Henry Rusinek, PhD; NYU School of Medicine;

Feasibility For Optimizing Pediatric CT Using Objective Measures Of Dose and Image Quality -David E. Hintenlang, PhD; University of Florida;

CT Dosimetry grant

Credible Risk Estimates for Pediatric CT Examinations - David J. Brenner, PhD, DSc, Eric J. Hall, PhD, DSc, Carl D. Elliston, MA, and W.E. Berdon, MD; Center for Radiological Research, Columbia University;

The N. Thorne Griscom Award for Education in Pediatric Radiology

Launching The Complete Interactive Web-Based Curriculum In Pediatric Radiology For Radiology Residents - Janet R. Reid, MD, FRCPC, Marilyn J. Goske, MD, Mariana G. Hewson, PhD, and Nancy A. Obuchowski, PhD; Children's Hospital at the Cleveland Clinic;

### **2001 Awards**

Determination of Optimal Dose and Safety Profile for Optison TM Ultrasound Contrast Agent in Pediatric Solid Tumor Patients Beth McCarville, MD, Wayne Furman, MD, Sue Kaste, Fred Hoffer, MD, Acuson, Inc., Mallinckrodt, Inc.; St. Jude's Children's Research Hospital, Memphis, TN;

Diagnostic Categorization Features for Radiographic Diagnosis at Varying Levels of Experience -

Beverly Wood, MD, Irving Biederman, PhD; Keck School of Medicine, Los Angeles, CA;

### Millennium Grant

An Assessment of Magnetic Resonance Imaging in the Prenatal Diagnosis of Fetal Chest Masses: Impact on the Diagnosis, Clinical Decision Making and Patient Outcomes -Valerie L. Ward, MD; Boston Children's Hospital, Boston, MA

### 2000 Awards

A Web-Based Teaching Module with Interactive Self-Assessment for Pediatric Radiology Residents - Janet R. Reid, MD, Marilyn Goske, MD, Stuart C. Morrison, MB,ChB, Mariana Hewson, PhD, Jerry Lawler, Michael L. Lieber, MS; The Cleveland Clinic Children's Hospital

Computer Simulated Dose Reduction for Pediatric Abdominal Helical CT - Donald P. Frush, MD, Caroline Hollingsworth, MD, Lane Donnelly, MD, John Mayo, MD, PhD; Duke University Medical Center, Durham, NC

### **1999 Awards**

MR Lung Ventilation Imaging in Asthmatics Using Hyper Polarized Helium-3 - Bennett Alford, MD; The University of Virginia

The Sedation, Analgesia, and Contrast Media Simulator: A New Approach to Train and Evaluate Radiologists' Responses to Critical Incidents - L. Santiago Medina, MD; Children's Hospital Medical Center

Multi-Institutional Pilot Study of Dynamic Enhanced Magnetic Resonance Imaging (DEMRI) to Assess Response of Bone Sarcoma to Chemotherapy - James S. Meyer, MD; Children's Hospital of Philadelphia

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### 1998 Awards

Computerized Stereological Quantitation of Pediatric Tumor Volume - Simon C. S. Kao, MD; The University of Iowa Hospital and Clinics

Doppler Sonographic Determination of Vessel Density in Crohn's Disease: a Reflection of the Effect of Treatment - Heidi Patriquin, MD; Hopital Sainte-Justine, Montreal

Evaluation of Contrast-Enhanced Sonography with Harmonic Imaging in Experimental Acute Pyelonephrosis in Piglets - Paul Babyn, MD; "The Hospital for Sick Children, Toronto

Osteogenic Sarcoma: Monitoring of Chemotherapeutic Drug Delivery Using MRI with Liposome Encapsulated Gd-DTPA-BMA - Philipp Lang, MD; Stanford University School of Medicine





### <u>1997 Awards</u>

The Impact of Imaging on Diagnosis, Management and Cost in Pediatric Patients with Abdominal Pain Presenting to the Emergency Department: A Comparison of Capitated Versus Fee-for-Service Plans - Kimberly E. Applegate, M.D.; The Cleveland Clinic Foundation

Evaluation of Bone Density in Survivors of Childhood Acute Lymphoblastic Leukemia (All) Treated on a Single Institutional Protocol" Sue C. Kaste; St. Jude Children's Research Hospital

Correlative Imaging Evaluation of Abduction-Induced Hip Ischemia in Piglets - Carol E. Barnewolt, M.D.; Children's Hospital, Boston;

Changes in Regional Renal Blood Flow During Hypotension: Evaluation with Contrast-Enhanced Grey-scale Harmonic US -George A. Taylor, M.D.; Children's Hospital, Boston

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High-Resolution CT and Expiratory CT of Bronchopulmonary Dysplasia - Suzanne L. Aquino, M.D.; UC Davis Medical Center

Pulmonary Hemorrhage and Hemosiderosis: Evaluation with MR Imaging in a Piglet Model - Sheila C. Berlin, M.D.; Rainbow Babies and Children's Hospital- Cleveland

Magnetic Resonance Microscopy Study of Embryonic and Fetal Development in Normal and Genetically Altered Mice - Anne M. Hubbard, M.D.; The Children's Hospital of Philadelphia

Efficacy and Cost-Effectiveness of Fast-Screening Brain MRI versus Conventional MRI in Children Suspected of Having a Brain Tumor: A Blinded Comparative Analysis - L. Santiago Medina, M.D.; Children's Hospital, Boston

Power Doppler Evaluation of Septic Arthritis: A Rabbit Model"; Bracco/SPR Award - Peter J. Strouse, M.D.; University of Michigan Hospitals

### **1995 Awards**

Effect of Chronic Low-Pressure Sterile Vesicoureteral Reflux on Renal Growth and Blood Flow in Piglets - Harriet J. Paltiel, M.D.; Children's Hospital, Boston

Quantification of Renal Blood Flow with Color Doppler Energy and Perflurocarbon-based Micro-bubble Contrast Media -George A. Taylor, M.D.; Children's Hospital, Boston

Therapeutic Efficacy of Chest Radiography in the Pediatric Intensive Care Unit - Keith S. White, M.D.; Primary Children's Medical Center, Salt Lake City

Diagnosis of Experimental Acute Pyelonephritis in Piglets Comparison of Spiral CT and 99mTc-DMSA Scintigraphy - Massoud Majd, M.D.; Children's National Medical Center, Washington, D.C.

### 1994 Awards

The Natural History of Acute Small Bowel Obstructions in Rats: Radiographic, Ultrasonic and Pathologic Changes - Marilyn Goske, M.D.; Cleveland Clinic Foundation

Helical Cine CT in the Assessment of Regional Ventilation: A Rabbit Model - T. David Cox, M.D.; Children's Hospital and Medical Center, Seattle

Comparison of Computed Radiography with Film-Screen Radiography in Detecting Pulmonary Edema in a Rabbit Model Simulating Hyaline Membrane Disease - Steven Don, M.D. Mallinckrodt Institute of Radiology"

Detection of Inflicted Skeletal Injury in Infants Using a Charge-Coupled Device, Paul E. Kleinman, M.D.; University of Massachusetts Medical Center

Comparison of Breath Hold and Non-Breath Hold Helical and Nonhelical Computerized Tomography Techniques for the Detection of Lung Metastases in Dogs with Osteosarcoma -Mervyn Cohen, M.D.; Riley Hospital for Children, Indianapolis

Assessment of Cytoreductive Therapy in Childhood Leukemia (ALL) with 1H NMR Spectroscopy (MRS) - Francis Blankenberg, M.D.; Lucille Salter Packard Children's Hospital

Use of Cisapride (Propulsid)in Nasojejunal and Gastrojejunal Tube Placement: A Double-Blind Study - Ellen C. Benya, M.D.; Children's National Medical Center





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Colonic Perforation During Air Enema in the Porcine Model - Stephen C. O'Connor, M.D.; Tripler Army Medical Center, Honolulu;

Ultrasound Characterization and Demonstration of Hemodynamic Effects in Experimental Neuronal Injury -George A. Taylor, M.D.; Johns Hopkins Medical Institutions

Quantitative Volume Flow Measurements with Color Velocity Imaging - Sjirk J. Westra, M.D.; University of California - Los Angeles Medical Center;

Duplex Doppler Sonography of the Portal Vein in an Animal Model (Adult Rabbit): Evaluation of Waveform Pulsatility with Changes in Right Atrial Pressure - Joanne B. Cressman, M.D.; Children's Hospital Medical Center, Cincinnati

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Comparison of Digital and Film Screen Radiography for the Detection of Pneumothorax in an Animal Model - Steven Don, M.D.; Riley Children's Hospital, Indianapolis;

High Resolution Volumetric Cine CT Assessment of Bronchial Reactivity: Histamine Induced Bronchoconstriction and Parenchymal Aeration Changes - Sandra Kramer, M.D.; Children's Hospital of Philadelphia;

Acute Testicular Torsion in the Rabbit: Qualitative and Quantitative Evaluation of the Effect of an Intravenous Doppler Contrast Agent - Donald Frush, M.D.; Children's Hospital Medical Center, Cincinnati;

Cine Magnetic Resonance Tracheal Evaluation in Anterior Innominate Artery Compression - Beverly Wood, M.D.; Children's Hospital of Los Angeles

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Phosphorus-31 Magnetic Resonance Spectroscopy of Muscle Metabolism in Patients with Sickle Cell Disease Prior to and Following Isovolemic Exchange Transfusion - George Bisset, M.D.; Children's Hospital Medical Center, Cincinnati

Detection of Cerebral Vascular Disease in Patients with Sickle Cell Anemia Using Duplex Transcranial Doppler with MR Angiographic Correlation - Joanna Seibert, M.D.; Arkansas Children's Hospital

Pulmonary Distribution of Endotracheally Administered Epinephrine in Pediatric Resuscitation - Mark S. Finkelstein, M.D.; Du Pont Institute, Wilmington, Delaware

Changes in Bone Density in Children Undergoing Bone Marrow Transplantation - VS Chakravarti, M.D.; Children's Hospital of Philadelphia

Multiparameter Ultrasonic Tissue Characterization of the Immature Rat Brain: Normal Versus Disease States - Lori L. Barr, M.D.; Children's Hospital Medical Center, Cincinnati

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Effect of Methotrexate on Bone Density During Growth - John G. Curran, M.D.; University of California - Los Angeles Medical Center

MRI Of Ischemic Damage to the Growth Mechanism - Diego Jaramillo, M.D.; Massachusetts General Hospital

Colonic Perforation in the Juvenile Porcine Model - William E. Shiels, D.O.; Children's Hospital Medical Center, Cincinnati

Detection of Subclinical Cerebrovascular Disease in Patients with Homozygous Sickle Cell Disease - SS Ortiz, M.D.; Children's Hospital of Los Angeles;

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Nancy K. Rollins, MD
George A. Taylor, MD

1997-98

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Mervyn D. Cohen, MD
William S. Ball, MD
Nancy K. Rollins, MD
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1998 - 99

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Eric L. Effmann, MD
Heidi B. Patriquin

1999-2000

Research & Education Foundation Board Janet L. Strife, MD, President Bruce R. Parker, MD, Vice-President Danielle K. Boal, MD, Secretary-Treasurer Neil D. Johnson, MD George A. Taylor, MD Eric L. Effmann, MD Heidi B. Patriquin, MD

2000 - 01

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Secretary-Treasurer-Elect
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George A. Taylor, MD
Yutako Sato, MD

2001-02

Research & Education Foundation Board David C. Kushner, MD, President Bruce R. Parker, MD, Vice-President Richard Jaffe, MD, Treasurer Marilyn J. Goske, MD, Secretary Yutako Sato, MD Neil D. Johnson, MD

2002-03

Research & Education Foundation Board
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Bruce R. Parker, MD, Vice-President
Richard Jaffe, MD, Treasurer
Marilyn J. Goske, MD, Secretary
Neil D. Johnson, MD
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Gary L. Hedlund, DO
Stephan D. Voss, MD, PhD
Janet R. Reid, MD





### Foundation Leadership

### 2003 - 04

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### 2004-05

Research & Education Foundation Board George A. Taylor, MD, President Stuart A. Royal, MD, Vice-President Dorothy I. Bulas, MD, Secretary L. Chris Foley, MD, Treasurer Gary Hedlund DO Janet R. Reid, MD Diego Jaramillo, MD Stefan Voss, MD, PhD Taylor Chung, MD

### 2005 - 06

Research & Education Foundation Board
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George A. Taylor, MD, Vice-President
Dorothy I. Bulas, MD, Secretary
L. Chris Foley, MD, Treasurer
Taylor Chung, MD
Sue Creviston Kaste DO
Janet R. Reid, MD
Diego Jaramillo, MD
Stephan D. Voss, MD, PhD

### 2006 - 07

Research & Education Foundation Board M. Ines Boechat MD, FACR, President Marilyn J. Goske, MD, Vice President Dorothy I. Bulas MD, Secretary Brian D. Coley MD, Secretary-Elect L. Christopher Foley MD, Treasurer Richard A. Barth MD, Treasurer-Elect Sue Creviston Kaste DO Josee Dubois MD Taylor Chung MD

### 2007 - 08

Research & Education Foundation Board
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Marta Hernanz-Schulman MD, Vice-President
Brian D. Coley MD, Secretary
Richard A. Barth MD, Treasurer
Sue Creviston Kaste DO
Josee Dubois MD
Heike E. Daldrup-Link MD
William Herbert McAlister MD
Stuart Alan Royal MS, MD

### 2008 - 09

Research & Education Foundation Board
Donald P. Frush, MD, President
M. Ines Boechat MD, FACR, Vice - President
Marta Hernanz-Schulman MD, Vice-President
Brian D. Coley MD, Secretary
Richard A. Barth MD, Treasurer
Heike E. Daldrup-Link MD
Josee Dubois MD
William H. McAlister MD
Stuart Alan Royal MS, MD
Beverly P. Wood, MD

### 2009 -10

Donald P. Frush, MD, President
Neil D. Johnson, MBBS, Vice-President
Brian D. Coley, MD, Secretary
James S. Donaldson, MD, Secretary-Elect
Richard A. Barth, MD, Treasurer
Brent H. Adler, MD, Treasurer-Elect
Heike E. Daldrup-Link, MD
William H. McAlister, MD
Ashok Panigrahy, MD
Stuart A. Royal, MS, MD
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### 2010-11

Research & Education Foundation Board Donald P. Frush, MD, President Dorothy I. Bulas, MD Vice-President James S. Donaldson, MD, Secretary Brent H. Adler, MD, Treasurer Lisa H. Lowe, MD William H. McAlister, MD Ashok Panigrahy, MD Stuart A. Royal, MS, MD Beverly P. Wood, MD, MS, Ed, PhD

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