THE FOUNDATION OF THE ASNR

Sustain a Strong Identity: Build a Healthy Future

Annual Report 2017

Message from the Co-Chairs

On behalf of the Board of Trustees, it is a pleasure to report the Foundation of the American Society of Neuroradiology was able to **award $1,021,000 to 11 investigators in fiscal year 2017** (to be funded in FY18 and FY19). Thanks to the generosity of our donors, the Foundation continues to promote the stability and growth of neuroradiology by providing critical research needed to yield expert diagnoses, target patient care and apply sophisticated approaches to complex disease management.

As neuroradiologists and members of ASNR, we play a vital role in promoting the highest standards for training and practice, fostering research in our field, and ensuring the future of our specialty. Research is central to the future of our field; fostering new ideas for clinical practice and enhancing patient care.

Your continued support and donations have allowed the Foundation to grant $6 million to fund over 100 members in our society as research investigators. The return on your investment is substantial as the research from our neuroradiology investigators is becoming critical in this healthcare environment.

Increased Foundation support by our membership sends a clear message of commitment to preserving the integrity of our specialty and patient care. Your support allows us to "Sustain a Strong Identity and Build a Healthy Future" together.

Thank you for the opportunity to serve as the Co-Chairs of the Foundation and work collaboratively with a dedicated board of neuroradiologists whose vision and commitment allows us to fulfill our mission.

Trusting that our continued efforts will create a greater value for all of neuroradiology,

Laurie A. Loevner, MD
Co-Chair, The Foundation of the ASNR

Pina C. Sanelli, MD, MPH, FACR
Co-Chair, The Foundation of the ASNR

More than
110
Neuroradiology Researchers have been funded **since 1987**

Increase of
306%
in amount of funds dispersed from **FY 2016 to FY 2017**

The Foundation funded
$942,000
in grants in **FY2017**

66%
Percentage of Repeat Donors from **FY 2016 to FY 2017**

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Mission

The mission of The Foundation of the American Society of Neuroradiology is to promote research and education in the field of neuroradiology and the development of new ideas for clinical practice.

The Foundation of the American Society of Neuroradiology is the 501 (C) 3 philanthropic arm of the American Society of Neuroradiology (ASNR). Through providing resources to support the advancement of neuroradiology, the Foundation's goals are:

- To advance the mission of the American Society of Neuroradiology through philanthropic and marketing efforts.
- To secure the resources necessary to ensure research and educational opportunities for neuroradiologists and members of ASNR.
- To educate and encourage individuals, corporations, and grantors to partner with the Foundation through philanthropic investment strategies.
- To continue its role as a seed funder for neuroradiology research.

Statement of Financial Position

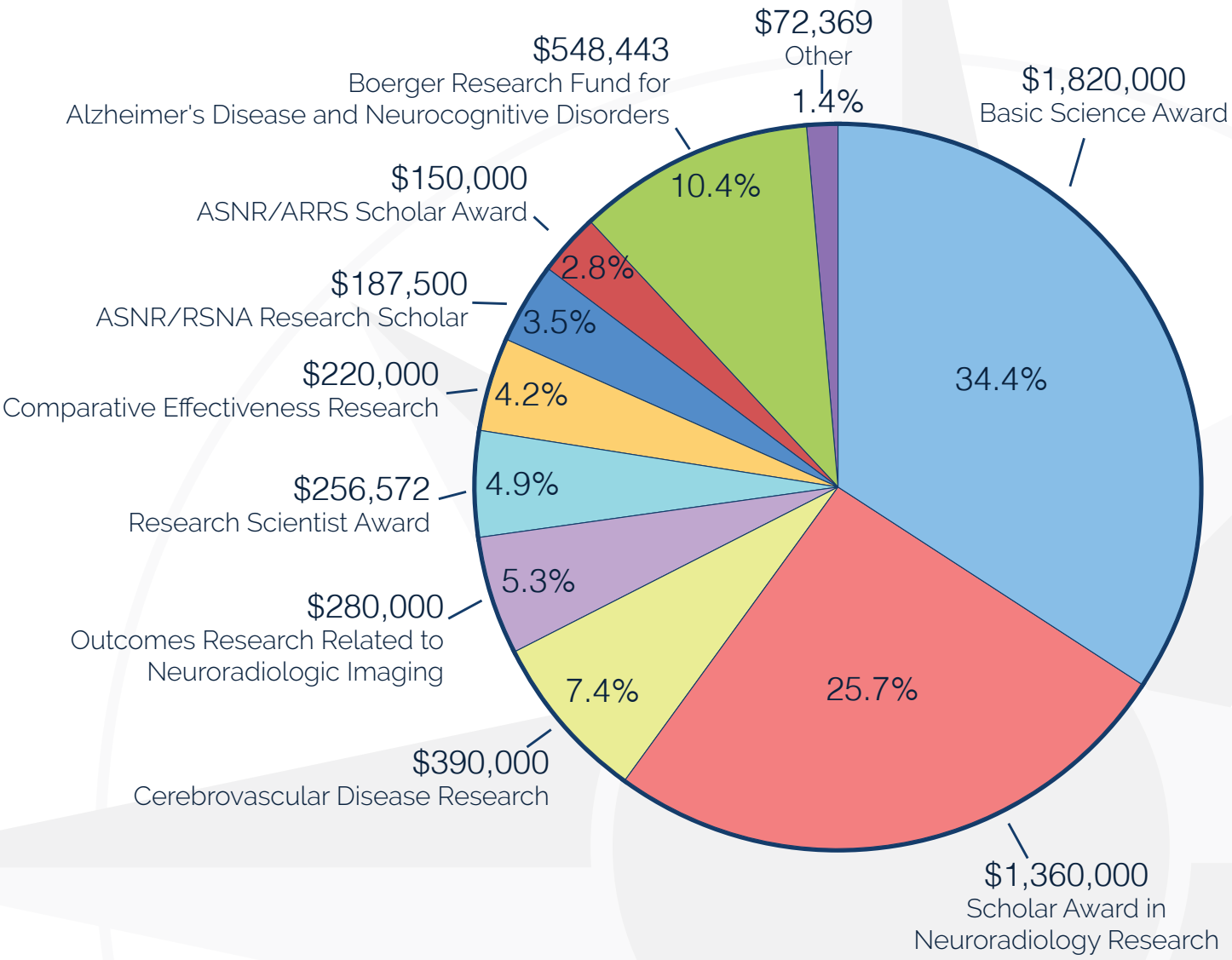
	2017	2016
	THE FOUNDATION OF THE AMERICAN SOCIETY OF NEURORADIOLOGY	THE FOUNDATION OF THE AMERICAN SOCIETY OF NEURORADIOLOGY
Assets		
Cash and cash equivalents	$ 580,534	$ 617,466
Investments	8,792,526	7,584,833
Total assets	$ 9,373,060	$ 8,202,299
Liabilities and Net Assets		
Liabilities:		
American Society of Neuroradiology	$ 23,210	$ 38,048
Other	153,918	4,000
Total liabilities	$ 177,128	$ 42,048
Net assets:		
Unrestricted:		
Undesignated	$ 8,609,331	$ 7,633,541
Designated-pediatrtric neuroradiology, spine neuroradiology, and head and neck radiology	386,694	339,405
Temporarily restricted:	73,123	60,521
Permanently restricted:	126,784	126,784
Total net assets	$ 9,195,932	$ 8,160,251
Total liabilities and net assets	$ 9,373,060	$ 8,202,299

Statement of Activities

	2017				2016			
	UNRESTRICTED	TEMPORARILY UNRESTRICTED	PERMANENTLY UNRESTRICTED	TOTAL	UNRESTRICTED	TEMPORARILY UNRESTRICTED	PERMANENTLY UNRESTRICTED	TOTAL
Operating Support and Revenue Under Operating Expenses								
Contributions and sponsorships	1,050,134			1,050,134	1,826,386			1,826,386
On-line CME	1,192			1,192	1,480			1,480
Net assets released from restriction	8,564	(8,564)		-	9,688	(9,688)		-
Total Operating Support and Revenue	1,059,890	(8,564)	-	1,051,326	1,837,554	(9,688)	-	1,827,866
Operating Expenses								
Annual Meeting	125				11,957			
Scholarships and awards	952,244			952,244	232,000			232,000
Education-maintenance of certification	85			85	49,295			49,295
Administrative	47,681			47,681	54,483			54,483
Donated Services	-			-	21,910			21,910
Fundraising	35,532			35,532	18,905			18,905
Total Operating Expenses	1,035,667	-	-	1,035,542	388,550	-	-	376,593
Other revenue (expense):								
Investment income	998,856	21,166		1,020,022	83,893	2,720		86,613
Award recoveries	-			-	3,709			3,709
Total Other Revenue	998,856	21,166	-	1,020,022	87,602	2,720	-	90,322
Change in Net Assets	1,023,079	12,602	-	1,035,681	1,536,606	(6,968)	-	1,529,638
Net Assets, Beginning of the Year	7,972,946	60,521	126,784	8,160,251	6,436,340	67,489	126,784	6,630,613
Net Assets, End of the Year	8,996,025	73,123	126,784	9,195,932	7,972,946	60,521	126,784	8,160,251

Your Donations at Work

Research Funded to Date



Make A Difference

The Foundation of the ASNR relies heavily on support from the neuroradiology community to further our mission of promoting education and research in the field of neuroradiology and the development of new ideas for clinical practice. Because your funds support innovative work of promising young investigators, you are building a vital pipeline of talent that will carry neuroradiology into the future.

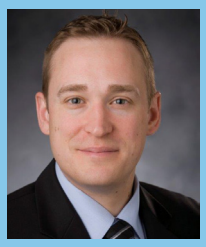
When you make a gift to the Foundation, you send a clear message that you are committed to preserving the integrity of our specialty and that patient care is of utmost importance.

Please donate now to the Foundation of the ASNR online at foundation.asnr.org/page/donate

2017 Foundation of the ASNR Awards

Outstanding Contributions in Research Award
Jeffrey G. Jarvik, MD, MPH
University of Washington

Research Scientist Award in Neuroradiology
Cuihua Wang, PhD
Massachusetts General Hospital
Mapping the in Vivo Relationship between Neuroinflammtion and Amyloid Deposition in Alzheimer's Disease



Comparative Effectiveness Research Award
Timothy J. Amrhein, MD
Duke University Medical Center
Comparison of Cervical Transforaminal Epidural Corticosteroid Injections with lateralized Interlaminar Epidural Corticosteroid Injections for Treatment of Cervicogenic Upper Extremity Radiculopathy

Trainee Research Award in Neuroradiology
Mariam Aboian, MD, PhD
University of California, San Francisco
Precision Imaging of Pediatric High Grade Gliomas with Quantitative Diffusion Weighted Imaging and Texture Analysis to Identify Imaging Biomarkers that Predict Tumor Genetics and Patient Outcomes: Statistical Modeling and Machine Learning Applications to the Largest Pediatric High Grade Glioma Cohort

Scholar Award in Neuroradiology Research
Gloria J. Guzmán Pérez-Carrillo, MD, MSc
University of Arizona
Diffusion Weighted Imaging for the Evaluation of Post-Treatment Squamous Cell Carcinoma in the Neck: Imaging Optimization and a New Quantitative and Qualitative Assessment Metric

AJNR Editorial Fellowship Sponsored by The Foundation of the ASNR
Daniel Sing-Yunn Chow, MD
University of California, Irvine

Scholar Award in Neuroradiology Research
Jana Ivanidze, MD
New York-Presbyterian Hospital-Weill Cornell Medical College
Radiogenomics of Blood Brain Barrier Damage in Aneurysmal Subarachnoid Hemorrhage

Women in Neuroradiology Leadership Award
Alyssa T. Watanabe, MD
University of Southern California

Boerger Research Fund for Alzheimer's Disease and Neurocognitive Disorders

In Memory of Paul H. Boerger

Please join the Foundation of the ASNR in remembering the late Paul H. Boerger. Mr. Boerger's contributions of $2.4 million created and endowed the Boerger Research Fund for Alzheimer's Disease and Neurocognitive Disorders. This fund allows the Foundation to support imaging-based research that advances our understanding of Alzheimer's disease, helps identify new treatment strategies, provides information to improve care for people with dementia, and will further our knowledge of brain health and disease prevention. These awards fund investigators at every professional stage and always include categories specifically designed to help talented young scientists establish careers in Alzheimer's imaging research. To date, 11 recipients have received funding from the Boerger Research Fund for Alzheimer's Disease and Neurocognitive Disorders. The Foundation of the ASNR extends unending gratitude for the legacy that Mr. Boerger created and for his role in advancing the field of neuroradiology.

2017 Boerger Research Fund Award Recipients

Principal Investigator: Elizabeth Davenport, PhD
Title: MEG Spectral Analysis as a Biomarker in Alzheimer's Disease
$99,952.00 (1 year)
University of Texas Southwestern

Principal Investigator: Christopher G. Filippi, MD
Title: Development of a Novel, Quantitative MR Imaging Biomarker of Glymphatic Flow for Alzheimer's Disease
$100,000 (1 year)
The Feinstein Institute for Medical Research

Principal Investigator: Sumit Niogi, MD, PhD
Title: Development of a Clinically Integrated Prognostic Tool for Alzheimer's Disease Using Deep Machine Learning Operating on a Connectome Network Diffusion Model
$242,140 (2 years)
Joan & Sanford I. Weill Medical College of Cornell University

Principal Investigator: Cyrus Raji, MD, PhD
Title: Diffusion MR Imaging Based Edge Density Connectome Mapping for Prediction of Alzheimer's Disease
$99,460 (2 Years)
University of California, San Francisco

Principal Investigator: Michael Zeineh, MD, PhD
Title: Iron-Based Neuroinflammation: A New Window to AD Pathology
$250,000 (2 years)
Stanford University

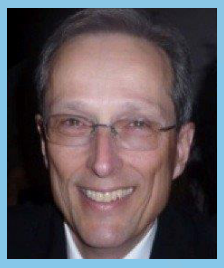
Your Donations Make an Impact

2016 Boerger Research Fund for AD and ND Award Recipient Impact Statements

Rahul Desikan, MD, PhD | University of California, San Francisco
Title: Multi-Dimensional Prediction of Alzheimer's Disease Risk
"The vision and generosity of the FASNR are exceptional . With increasing burden of dementia, the FASNR has shown amazing foresight and leadership by funding highly translational projects that will have a transformative impact on clinical medicine."

Sterling Johnson, PhD | University of Wisconsin-Madison
Title: Tau, Amyloid and Cerebral Vascular Health in People at Risk for Alzheimer's Disease
"The FASNR award to our team has enabled the development of novel data acquisition and processing schemes for cranial MRI of hemodynamics and their translation to testable hypotheses regarding how AD pathology may be potentiated via compromised vessel health. There are clear implications of this work to treatment and prevention of AD."

Meng Law, MD, MBBS, FRACR | University of Southern California
Title: Multi-Shell HARDIS/FOD and Structural Mri of White and Gray Matter Connectomics With Allopregnanolone Regenerative Therapy in Mci And Alzheimer's Disease
"I am extremely grateful for the Foundation of the ASNR and the Boerger Research Fund to support work in Alzheimers Disease (AD). The data I have acquired with this grant has already resulted in presentations, abstract and publications in AD which have elucidated some of the underlying pathophysiology of the disease and identified some therapeutic targets"



David J. Mikulis, MD | The University of Toronto
Co-Investigator: Bruce Wasserman, MD | Johns Hopkins School of Medicine
Title: Developing an Imaging Biomarker for Alzheimer's Dementia Based on Vascular Dysfunction
"We believe that our MRI imaging method is a breakthrough for effectively and inexpensively detecting dementia including Alzheimer's Disease at a very early stage. We are now poised to expand and validate our research in a larger population of patients."

Jeffrey R. Petrella, MD | Duke University - Durham, North Carolina
Title: High-Resolution Intracortical DTI for Early Detection of Alzheimer's Disease
"Support from organizations like the FASNR is critical to keeping neuroradiology at the forefront of the rapidly evolving field of dementia research and enabling the development of new methods that will transform how we practice in the future"

The Foundation of the ASNR Symposium 2017: Discovery and Didactics

Over 800 physicians participated in the Foundation of the ASNR Symposium held April 22-23, 2017 at the Long Beach Convention Center. The Symposium 2017 focus of **Discovery and Didactics** featured sessions on "What's New?" in the role of neuroimaging in defining CNS disease mechanisms and how best to prepare for "What's Next" for the sub-specialty of neuroradiology in terms of training, teaching and leading the process of lifelong learning. Expert faculty revealed new advanced imaging techniques, shared trends for the future of cerebrovascular treatment, training and machine learning. The Symposium also featured a point-counterpoint discussion on post-processing of fMRI data. Academic and private practice physicians presented alternatives for overnight coverage of neuroradiology reads and specific impact on resident training. Learning formats included both didactic lectures and case-based material presentations to facilitate learning and recall.

OVERALL OBJECTIVES:

- Explore what is new in neuroimaging.
- Review the role neuroimaging plays in defining CNS disease mechanisms.
- Formulate how to best prepare for "What's Next?" for our subspecialty for training and teaching.
- Compare and critique systems of overnight neuroradiology reading coverage.
- Discover the utility of the metallic artifact reduction sequence, diffusion imaging and Dixon methods in MRI and Dual Energy CT scanning.
- Understand the capability of MR thermometry in guiding invasive thermal therapies.

Honor Roll of Contributors

(through June 30,2017)

The Legacy Society

Individuals who have included The Foundation of the ASNR in their will or other estate and financial plan

Dr. Steven J. Goldman
Dr. Anne G. Osborn
Dr. Gordon K. Sze

Leadership Circle

Cumulative gifts made over a lifetime

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$50,000+

Paul H. Boerger
Castillo-Alvarez Charitable Fund at Triangle Community Foundation

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$10,000 -$49,999

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$5,000 - $9,999

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$2,500 - $4,999

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NRST (The Neuroradiological society of Taiwan), in honour of the Friendship between ASNR and NRST
Dr. William D. Keyes
Mrs. Mary and Dr. Edmond Knopp
Dr. Susan Palasis
In honor of all my inspiring pediatric neuroradiology colleagues.
Drs. Carol Diamond and Howard Rowley
In honor of our new ASNR CEO / Executive Director, Mary Beth Hepp - welcome and thank you for helping us build an even healthier future! Howard & Carol - For support of members in training in ASHNR 2017-2018
Dr. Erin and Mr. Darren Schwartz
To support the mission of our outstanding society
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In honor of Dr. Ken Maravilla

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For those who are building the future
Dr. Erik H. Gaensler
In honor of Howard Rowley and Carol Diamond
Dr. Alisa D. Gean
This is for Howard Rowley, who always gives to everyone else.
Dr. David and A Raechel Hackney
Mary Beth Hepp
Dr. Joshua A. Hirsch
In honor of Dr. Laurie Loevner. Her tireless efforts and outstanding advocacy led to the establishment of the Boerger Fund for studies of Neurocognitive disease. Generations of patients will benefit for years to come.
Dr. Michael and Beverly Huckman
Dr. Stephen A. Kieffer
In honor of Derek Harwood-Nash
Dr. Amy L. Kotsenas
Dr. Roland R. Lee
In honor of my parents, CH & Ellen Lee
Dr. Laurie A. Loevner and Mr. Steven A. Berger
Dr. Carolyn and Mr. Kenneth Meltzer
In honor of my wonderful ASNR colleagues
Dr. Erik H. Middlebrooks
Dr. Lex A. Mitchell
Dr. Walter Olsen and Zdenka Fronek
Dr. Anne G. Osborn
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In honor of Ronnye Russell, my beloved sister
Dr. Noriko Salamon
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In honor of Dr. John R. Bentson, outstanding mentor and clinician
Dr. Robert and Mrs. Ellen Zimmerman
For David O. Davis, a wonderful mentor

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In honor of my supportive family and many great mentors at Montefiore Medical Center including Dr. Bello
Dr. Camilla E. Lindan
With admiration! For Dr. Howard Rowley & Dr. Carol Diamond
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In honor of Dr. Jacqueline Bello, ASNR president-elect - educator, mentor, and leader in Neuroradiology
Dr. Whitney B. Pope
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My friend and mentor, Howard Rowley and my baby Sophie who motivates every morning.
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