The foundation of the ASNR

ROI^2

Return on Investment: Raising our Influence

Annual Report 2018
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 fund $1.1 Million to 11 investigators in fiscal year 2018. 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 $6.3 million to fund over 115 members in our society as research investigators. During the FY 2018 Campaign, ROI² Return on Investment: Raising our Influence, the ASNR Board of Directors sponsored a matching grant for first time donors which yielded a 17% increase in the number of first-time donors. This increased Foundation support by our membership sends a clear message of commitment to preserve the integrity of our specialty and patient care.

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 116 Neuroradiology Researchers have been funded since 1987

Increase of 41% in donation dollars from FY 2017 to FY 2018

The Foundation funded $1.1 M in grants in FY2018

Increase of 17% in 1st time donors in FY2018
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

THE FOUNDATION OF THE AMERICAN SOCIETY OF NEURORADIOLOGY

### Assets

<table>
<thead>
<tr>
<th>Description</th>
<th>2018</th>
<th>2017</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cash and cash equivalents</td>
<td>$ 278,492</td>
<td>$ 580,534</td>
</tr>
<tr>
<td>Investments</td>
<td>8,503,055</td>
<td>8,792,526</td>
</tr>
<tr>
<td><strong>Total assets</strong></td>
<td><strong>$ 8,781,547</strong></td>
<td><strong>$ 9,373,060</strong></td>
</tr>
</tbody>
</table>

### Liabilities and Net Assets

<table>
<thead>
<tr>
<th>Description</th>
<th>2018</th>
<th>2017</th>
</tr>
</thead>
<tbody>
<tr>
<td>Liabilities:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>American Society of Neuroradiology</td>
<td>$ 52,686</td>
<td>$ 23,210</td>
</tr>
<tr>
<td>Other</td>
<td>7,676</td>
<td>153,918</td>
</tr>
<tr>
<td><strong>Total liabilities</strong></td>
<td><strong>$ 60,362</strong></td>
<td><strong>$ 177,128</strong></td>
</tr>
</tbody>
</table>

| Net assets:                                      |            |            |
| Unrestricted:                                    |            |            |
| Undesignated                                     | $ 8,079,443| $ 8,609,331|
| Designated-pediatric neuroradiology, spine       | 423,043    | 386,694    |
| neuroradiology, and head and neck radiology      | 91,915     | 73,123     |
| Temporarily restricted:                          | 126,784    | 126,784    |
| Permanently restricted:                          |            |            |
| **Total net assets**                             | **$ 8,721,185** | **$ 9,195,932** |

| Total liabilities and net assets                  |            |            |
|                                                  | **$ 8,781,547** | **$ 9,373,060** |

Statement of Activities

### Operating Support and Revenue

<table>
<thead>
<tr>
<th>Description</th>
<th>2018</th>
<th>2017</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contributions and sponsorships</td>
<td>291,579</td>
<td>1,050,134</td>
</tr>
<tr>
<td>On-line CME</td>
<td>-</td>
<td>1,132</td>
</tr>
<tr>
<td>Net assets released from restriction</td>
<td>-</td>
<td>8,564</td>
</tr>
<tr>
<td><strong>Total Operating Support and Revenue</strong></td>
<td>291,579</td>
<td>1,050,134</td>
</tr>
</tbody>
</table>

| Operating Expenses                               |            |            |
| Annual Meeting                                   | -          | 125        |
| Scholarships and awards                          | 1,164,958  | 952,244    |
| Education-maintenance of certification           | 20,000     | 85         |
| Administrative                                   | 267,391    | 47,681     |
| Fundraising                                      | 20,407     | 35,532     |
| **Total Operating Expenses**                     | 1,492,756  | 1,035,667  |

| Other revenue (expense):                         |            |            |
| Investment income                                | 707,638    | 998,856    |
| Award recoveries                                 | -          | 21,166     |
| **Total Other Revenue**                          | 707,638    | 1,020,022  |

| Change in Net Assets                             | (493,539)  | 1,035,681  |

| Net Assets, Beginning of the Year                | 8,996,025  | 7,972,946  |
| Net Assets, End of the Year                      | 8,502,486  | 8,996,025  |
Your Donations at Work
Research Funded to Date

- Basic Science Award: $1,820,000
- Scholar Award in Neuroradiology Research: $1,480,000
- Cerebrovascular Disease Research: $390,000
- Outcomes Research Related to Neuroradiologic Imaging: $280,000
- Research Scientist Award: $316,572
- ASNR/ARRS Scholar Award: $150,000
- ASNR/RSSA Research Scholar: $225,000
- Trainee Research Grant: $20,000
- Other: $84,143
- Boerger Research Fund for Alzheimer’s Disease and Neurocognitive Disorders: $1,432,716

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
2018 Comparative Effectiveness Research Award
Akash Kansagra, MD, MS
Washington University School of Medicine and Barnes-Jewish Hospital
Science of Systems of Care: Simulating Care Delivery and Patient-Centered Health Outcomes in Acute Ischemic Stroke

“Recent clinical trials have proven the profound efficacy of interventional neuroradiology techniques... many questions remain about how to optimize countless variations in the delivery of this care. The grant I received from the (Foundation of the) ASNR is allowing me to study these questions using numerical simulations of stroke care in hundreds of thousands of patients. The findings of my work will help to address questions of how best to deliver this critical care while avoiding the time and expense of additional clinical trials.”

2018 Scholar Award in Neuroradiology Research
Hediyeh Baradaran, MD | Boston University Medical Center
Carotid Intima-Media Thickness Progression and Subclinical Brain Ischemia, Brain Aging, and the Incidence of Dementia: Framingham Study

“My findings have provided strong evidence for a link between the progression of carotid atherosclerosis and premature loss of hippocampal volume which supports targeting atherosclerotic change for prevention and treatment of cognitive dysfunction... the Scholar Award has shaped my future career plans and has laid the foundation for a hopefully long and productive career as an academic neuroradiologist. I will be forever grateful to the Foundation...and hope the FASNR continues to support the dreams of aspiring clinician scientists.”

2018 Scholar Award in Neuroradiology Research
Douglas Martin, MD | Stanford University
Noninvasive Neuromodulation in a Rat Model of Depression

“The Foundation awards provide an invaluable resource for both new and established neuroradiologists to explore new ideas that will advance the science of radiology and allow us to better diagnose and treat disease. By supporting the Foundation, you foster these advances and help ensure that neuroradiology remains dynamic and innovative in the years to come.”

2018 Research Scientist Award in Neuroradiology
Kevin Chen, PhD | Stanford University
A Generalizable Deep Learning Network for Imaging Neuropathology with Ultra-low-dose PET/MRI

“I am grateful to the FASNR for this award...to pursue this impactful project and an opportunity to contribute to the extremely fast-moving field of artificial intelligence-aided neuroimaging. With generous support from the FASNR, the award will help me lay the foundation as I establish myself as an independent researcher, bridging the fields of engineering and neuroimaging.”

2018 Trainee Research Award in Neuroradiology
Mikell Yuhasz, MD | New York University Langone Medical Center
Novel Structural MRI Characterization of Auditory Pathways in Pediatric Sensorineural Hearing Loss

“It has been my goal to harness and optimize the technology of our field in order to provide more clinically meaningful and relevant imaging techniques and in the process, foster closer collaboration among clinicians and radiologists. The 2018 Trainee Research Award has been invaluable to my burgeoning research interests, allowing me the opportunity to pursue an idea with protected time...I have been inspired to more fully dedicate myself to research with newfound confidence in my abilities and ideas.”
The Boerger Research Fund for Alzheimer’s Disease and Neurocognitive Disorders

In 2016 Mr. Paul Boerger’s contributions of $2.5 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. 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.

Impact Statements from 2017 Fund Recipients

Elizabeth Davenport, PhD
University of Texas Southwestern
MEG Spectral Analysis as a Biomarker in Alzheimer’s Disease

“Receiving this foundation award will help me achieve a personal goal of fighting Alzheimer’s disease. My grandmother was diagnosed with Alzheimer’s Disease a few years ago, so I knew I wanted to do something to help future generations from suffering from this disease. This foundation award will help me collect preliminary data towards a goal of a clinically feasible non-invasive bio-marker for AD. With earlier detection, we can provide earlier treatment that will hopefully lead to a cure.”

Christopher G Filippi, MD
The Feinstein Institute for Medical Research
Development of a Novel, Quantitative MR Imaging Biomarker of Glymphatic Flow for Alzheimer’s Disease

“Receiving a grant from the Boerger Research Fund was critically important, as the quantitative MR imaging of glymphatic flow is a more experimental or ‘high risk/high reward’ kind of grant that is unlikely to get funded through more traditional mechanisms. This funding is allowing us to get data for proof of concept and to gather necessary pilot data, so that we can apply for NIH funding. One of the most important missions of the Foundation of the ASNR is...to provide a critical lifeline of support to researchers at a time when securing extramural funding is increasingly difficult, especially for investigators who face increasing pressure to do more clinical work and relinquish academic days if those days are not funded by grants.”

Cyrus Raji, MD, PhD
Washington University
Diffusion MR Imaging based Edge Density Connectome Mapping for Prediction Alzheimer’s Disease

“My research, funded by the FASNR Boerger (Research) Fund for Alzheimer’s Disease, has allowed me to demonstrate the diagnostic utility of diffusion MRI in identifying persons who will develop Alzheimer’s Disease up to almost three years in advance...The FASNR grants ideally position junior investigators such as myself to apply for NIH grants...Continued support and donations to the FASNR ensures that junior faculty can be successful at establishing productive careers in academic neuroradiology.”

Michael Zeineh, MD, PhD
Stanford University
Iron-Based Neuroinflammation: A New Window to AD Pathology

“The ASNR Boerger fund has had a very positive impact upon my research, lab, and career. The clinical implications are that we are evaluating the prospect of using quantitative measures of iron as an important factor in Alzheimer’s disease mechanism and prognosis. This funding has been a springboard for my research, and it has enabled me to successfully submit and receive a NIH R01.”
TARGET AUDIENCE
The Foundation of the ASNR Symposium 2018 focused on adding value and improving healthcare in neuroradiology. The symposium is centered on how neuroimaging adds value in many subspecialty areas, including brain, spine, head & neck, pediatric and neurointerventional procedures. The target audience included practicing neuroradiologists, other radiologists charged with interpreting neuroimaging studies, radiology fellows and residents, neuroscientists interested in the latest advances, and non-radiology colleagues whose practices include neuroimaging. Dedicated topic areas included screening and diagnostic neuroimaging, evidence based neurointerventional treatment, emergency neuroimaging use and usefulness, advanced imaging strategies, and healthcare reform.

OBJECTIVES
• Discuss neuroimaging adding value in clinical care by improving health outcomes and healthcare delivery.
• Explore the extensive utilization of neuroimaging in the emergency setting.
• Diagnose low back pain and recommend other spine imaging and interventions.
• Report on incidental findings and how to manage follow-up evaluations.
• Review normal imaging and understand how negative exams are identified as positive results for patients.
• Evaluate head and neck imaging and determine patient management and treatment.
• Describe ways to improve quality and safety in pediatric neuroimaging.
• Review methods to improve patient outcomes utilizing advanced neuroimaging.
• Discuss the meaning and future of healthcare reform for Neuroradiologists.
Honor Roll of Contributors

Leadership Circle
Cumulative Gifts made over a lifetime

Founder
$50,000+
Paul H. Boerger
Castillo-Alvarez Charitable Fund at Triangle Community Foundation
Dr. Anne G. Osborn
Dr. Gordon K. Sze

Patron
$10,000-$49,000
Austin Radiological Association
Dr. A. James Barkovich and Karen K. Jernstedt
Dr. Robert and Tara Barr
Dr. Craig N. Bash
Dr. Jacqueline A. Bello and Peter Carmel
Bracco Memorial Fellowship
Dr. Robert and Cathy Breit
Dr. Jonathan Breslau and Mrs. Lisa Breslau
R. Nick and Jean Bryan
Dr. Kim D. Burroughs
Dr. Charles M. Citrin
Dr. Rama Devasthanl
Dr. Burton P. Drayer
James and Vera Gantenberg
Dr. Jeffrey T. Hall
Dr. Carl W. Hardin
Dr. Anton N. Hasso
Dr. Victor M. Haughton
Dr. John R. Hesselink
Dr. Michael and Beverly Huckman
Dr. William D. Keyes
Mrs. Mary and Dr. Edmond Knopp
Dr. Bernadette Koch and Mr. Peter Morey
Dr. and Mrs. Irvin I. Kricheff
Dr. Andrew Ku and Ms. Diane Bandy
Dr. Roland R. Lee
Dr. Laurie A. Loevner and Mr. Steven A. Berger
Dr. and Mrs. Robert R. Lukin
Dr. Jeffrey E. Magnunson
Dr. Vincent and Laura Mathews
Dr. Carolyn and Mr. Kenneth Meltzer
Dr. Walter Olsen and Zdenka Fronk
Dr. M. Judith Donovan Post
Dr. Robert M. Quencer and Christine Quencer
Dr. Varadarreddy T Reddy
Dr. Patricia A. Rhyner
Dr. Leroy Roberts, Jr.
Dr. Michael & Mrs. Lynn Rothman
Drs. Carol Diamond and Howard Rowley
Drs. Eric J. Russell and Sandra K. Fernbach
Dr. Erin and Mr. Darren Schwartz
Dr. Marc D. Shapiro
Ron Shapiro Charitable Trust
Drs. J. Keith Smith and Lisa L. Jones
Dr. Raymond K. Tu
Dr. Patrick and Deborah Turski
Dr. Samuel M. Wolpert
Kelly and David Yousem
Dr. Robert and Mrs. Ellen Zimmerman

Ambassador
$5,000-$9,999
Dr. Joseph P. Alenghat
Dr. Yoshimi Anzai

Visionaries
Donors who have contributed $1,000 or more annually

$10,000 & Above
Dr. Laurie A. Loevner
In loving memory of Steve Berger
Dr. Anne G. Osborn

$5,000-$9,999
Drs. Jacqueline A Bello and Peter Carmel

Dr. John AufderHeide
Dr. Jayapalii Rajiv Bapuraj
Dr. Jose A. Bauza
Dr. Carlos Bazan, III
Dr. David L. Bloom
Dr. Jerrod Boxerman
Dr. Bruce H. Braffman
Dr. Barton F. Branstetter IV
Dr. Bradley R. Buchbinder
Dr. Oscar F. Carbonell
Dr. Asim F. Choudhri
Dr. Lawrence M. Davis
Dr. Michael Deck
Elise Galman Dee Foundation
Drs. William P Dillon and Irene Balcar Dillon
Dr. and Mrs. James N Dreidbach
Dr. David J. Feldman
Dr. Glenn S. Forbes
Dr. Erik H. Gaensler
Dr. Alisa D. Gean
Dr. John P. German
Dr. Christine M. Glastonbury
Dr. David and A Rachel Hackney
Dr. Charles M. Hecht-Leavitt
Dr. Linda A. Heier
Dr. Steven W. Hetts
Dr. Leo Hochkauzer
Dr. Jeffrey G. Jarvik
Dr. Michele H. Johnson
Dr. Edward E. Kassel
Dr. Kelly K. Koeller
Dr. Andrew J. Kurman
Dr. Daniel J. Loes
Dr. Rene P. Manzo
Dr. Lee G. Michaels
Dr. Lex A. Mitchell
Dr. Karen M. Moeller
Dr. Pratik Mukherjee
Dr. F. Reed Murtagh
Dr. Susan Palazis
Dr. J. Arllis Pollock
Dr. D. Gordon Potts
Dr. Tina Young Poussaint
Dr. Haricharan P. Reddy
Dr. John H. Rees
Dr. Jeffrey S. Ross
Dr. Noriko Salomon
Dr. Pina C. Sanelli
Dr. Pamela W. Schaefer
Dr. Balasundaram Chandra Sekar
Dr. I. Scott Sutherland
Dr. Susan Stuwait
Dr. Apostolos John Tsionis
Dr. Robert E. Watson
Dr. Douglas H. Yock

Dr. John P. German
In honor of Dr. Thomas A. Tomsk; thank you for years of support and a mentoring.
Dr. Jeffrey S. Ross
Mayo Clinic Neuroradiology
This donation is to the ASNR Foundation is made in honor of Dr. O. Wayne Houser by his grateful Neuroradiology colleagues at the Mayo Clinic. Dr. Houser served as President of the ASNR from 1983 - 1984; and has been a tremendously inspirational leader and role model in our field. Sincere thanks to you Dr. Houser for your profound contributions to our group and your embodiment of the Mayo model of care.

$2,500 - $4,999
Drs. Robert and Tara Barr
Dr. Rama Devasthanl
Dr. Anton N. Hasso
Mary Beth Hepp, MBA
Dr. William D. Keyes
Mrs. Mary and Dr. Edmond Knopp
Dr. Lex A. Mitchell
Dr. Susan Palasis
In honor of all that volunteer their time and knowledge towards teaching neuroradiology around the world.
Dr. Tina Young Poussaint
Dr. Jacques Romano
Drs. Howard Rowley and Carol Diamond
Our donation is made in honor of Dr. Anne G. Osborn; and in support of the new Osborn ASNR International Outreach Professor program - Thank you Anne
Dr. Pina C. Sanelli
Dr. Erin and Mr. Darren Schwartz
Drs. Keith Smith and Lisa Jones
Dr. Chip Truwt
Dr. Raymond K. Tu
To our terrific ASNR Health Policy team
Dr. Samuel M. Wolpert
Dr. Robert and Mrs. Ellen Zimmerman

$1,000 - $2,499
Dr. Jayapalii Rajiv Bapuraj
Drs. A. James Barkovich and Karen K. Jernstedt
T. Hans Newton
Dr. Barton F. Branstetter IV
Dr. Bradley R. Buchbinder
Todd and Charlene Burt
Dr. David C. Carrington
Castillo-Alvarez Charitable Fund at Triangle Community Foundation
Dr. Asim F. Choudhri
Drs. William P Dillon and Irene Balcar Dillon
Dr. Burton P. Drayer
Dr. Edward J. Escott
Dr. John Stears
Dr. Christopher G. Filippi
In memory of Dr. Howard Rowley because he always donates large sums of money to honor other individuals

"Deceased"
Dr. Brent D. Griffith
Dr. Lotfi Hacene-Bey
Dr. Juan M Taveras
Dr. Victor M. Haughton
Dr. Christopher Hess and Dr. Theresa Allison
Paul Lauterbur
Dr. Steven W. Hetts
Dr. Joshua A. Hirsch
Dr. Michael and Beverly Huckman
Dr. Michele H. Johnson
Dr. John E. Jordan
Dr. William G. Bradley
Dr. Claudia F.E. Kirsch
Dr. Kelly K. Koehler
Dr. Amy L. Kotsenas
Dr. Roland R. Lee
In Memory of Dr. William G. Bradley, In honor of Dr. Rosalind Dietrich
Dr. Yueh Z. Lee
Dr. Kenneth R. Maravilla
Dr. Erik H. Middlebrooks
Dr. Gregory N. Nicola
Dr. Walther P. and Zdenka Fronke
Dr. Haricharan P. Reddy
Dr. Leroy Roberts, Jr.
Dr. Timothy P. L. Roberts
In memory of Bill Bradley; friendmentor. In recognition of Howard Rowley; friend, colleague (and expert tutor in the ways of frequent flyer miles). And for my daughter; Sophie: only 3 years old and such a motivational influence. And to the ASNR, who welcomed in an English PhD type a couple of decades ago; and let me make the society my home. Thank you
Dr. Eric J Russell and Sandra K. Fernbach
Dr. Marc D. Shapiro
In honor of Robert Shapiro, M.D.
Dr. In Sook Yu Song
“In Memory of President of ASNR Dr. Ernest H. Wood 66-67
Dr. Sadek K. Hilal. 77-78”
Dr. Thomas A. Tomisick
In honor of Dr. Robert Luhin
Dr. Apostolos John Tsilouris
Dr. Sarah P. Patrick and Deborah Turski
Dr. Kirk M. Welker
Kelly and David Yousem

Rising Stars
Donors who have contributed up to $999 annually

$500 - $999
Applied Radiology
In Memory of William Bradley, MD
Dr. Yoshimi Anzai
Bill Bradley
Dr. Nafi Aygun
Dr. Jerrold Boxerman
Dr. Jonathan Breslau and Mrs. Lisa Breslau
Dr. Kim D. Burroughs
Dr. Bradford S. Burton
Dr. Oscar F. Carbonell
Dr. Rebecca S. Cornelius
Dr. Lawrence M. Davis
Dr. Steven Falcone
Dr. Nikdokht Farid
In memory of my mentor and first chair; Dr. William G. Bradley.
Dr. Scott H. Faro
Dr. Wende N. Gibb
My Neuroradiology mentors: AH: MO; JR: LT; you made all the difference
Dr. Christine M. Glastonbury
Dr. John L. Go
In memory of William Bradley, MD and Brian Bowen, MD
Dr. Edward H. Herskovits
Dr. John R. Hesselink
Dr. Thu-Anh Hoang
Dr. Patricia A. Hudgins
Dr. Steve G. Imbes
Dr. Jeffrey G. Jarvis
Dr. Tabassum A. Kennedy
In honor of my mentors Dr. Howard Rowley; Dr. Carol Diamond and Dr. Aaron Field
Dr. Neil U. Lall
Dr. Mykol Larvie
Dr. Jeffrey E. Magnunson
David B Kispert, MD
Dr. Christie M. Malayil-Lincoln
Dr. Renee P. Manzo
Dr. Pejman J. Maralani
In honor of Allan J Fox
Dr. Vincent and Laura Mathews
Dr. Carolyn and Mr. Kenneth Meltzer
Dr. Philip M. Meyers
Dr. Karen K. Moeller
Dr. Randy L. Niblett
Dr. Alexander M. Norbash
Bill Bradley; friend; mentor; and beloved colleague
Dr. David R. Payne
Dr. Whitney B. Pope
Dr. Vijay M. Rao
Dr. Varadareddy T. Reddy
Dr. John H. Rees
Dr. Noriko Salamon
Dr. Karen L. Salzman
In honor of Dr. Anne Osborn and Dr. Ric Harnberger.
Dr. Balasundaram Chandra Sekar
Dr. Gaurang V. Shah
Vindavan Shah
Dr. Achala S. Vagal
In honor of Dr. Robert Luhin
Dr. Murugasundaram Veeramani
Dawn Winters, MBA
Dr. Ronald L. Wolf
Dr. Gregory G. Zaharchuk

$250 - $499
Dr. Ashley H. Aiken
Dr. Laura M. Allen
Dr. Anne Osborn
Dr. John G. Alley, Jr.
Dr. Linda J. Bagley
In loving memory of Angie DiSpirito
Dr. Jose A. Bauza
Dr. Royce Biddle
Dr. Matthew Bobinski
Dr. Bruce H. Braffman
Dr. Sharon E. Byrd
Dr. George J. Carstens, III
Dr. Rakesh D. Chaudhari
Dr. James Y. Chen
Dr. Melissa Mei Chen
Dr. Taylor P. Chen
Dr. Daniel Chow
Dr. Arthur D. Cortez
Dr. Robert L. DeLaPaz
Dr. Andrew J. DeNardo
Dr. Adam E. Flanders

Dr. Calvin H. Flowers, Jr.
Dr. Reza Forghani
Dr. Connie J. Gapinski
Dr. Orit A. Glenn
Dr. Ajay Gupta
Dr. Stanley F. Handel
T. Hans Newton
Dr. Gregory A. Hatfield
Dr. Jeremy J. Heit
Dr. John F. Hiehle, Jr.
Dr. Jennifer A. Hill
Dr. Ellen G. Hoefnner
In honor of past; present and future Neuroradiology Fellows at the University of Michigan.
Dr. Barry J. Jeffries
Dr. Blaise V. Jones
Dr. Stephen E. Jones
Dr. Edward E. Kassel
In honor of Dr. Laurie Leovner
Dr. Herri Kieffer
Dr. Bernadette Koch and Mr. Peter Morey
Dr. Klaus W. Krueger
Dr. Andrew J. Kurnam
Dr. James L. Leach
Dr. Michael H. Lev
Dr. John B. Lightfoot
William G. Bradley
Dr. Camilla E. Lindan
Dr. Kenneth P. Lynch, III
Dr. Alexander S. Mark
In member of Daniel Mark
Dr. Jennifer L. McCarty
Dr. Robert C. McKinstry, III
Dr. Barry J. Menick
Dr. Joel R. Meyer
Dr. Frank R. Milton, IV
Dr. William D. Miller
Dr. James W. Moseley
Dr. Sugito Mukherjee
Dr. Seyed Ali Nabiavizadeh
Dr. Kambiz Nael
My mother Maryam Izadi
Dr. Cuong T. Nguyen
Dr. Mitchell T. Pace
Dr. Wallace W. Peck
Dr. Todd R. Peebles
Dr. Jeffrey R. Petrella
William and Carmela Petrella.
Dr. C. Douglas Phillips
Dr. Deborah Shatzkes; my wife and best friend
Dr. Jay J. Pilai
Dr. Bruno A. Policeni
Dr. Michael F. Polise
Dr. Jeffrey M. Pollock
Dr. Biduyut K. Pramanik
Dr. Bryan A. Pukenas
Dr. Prashant Raghavan
Samaritha Murali
Dr. Roy F. Riascos
Dr. Javier Romero
Dr. Michael B. Ruff
Dr. Craig P. Russo
Dr. John F. Hiehle
Dr. Daniel G. Schwartzberg
Deborah R. Shatzkes
Bill Bradley
Dr. Dikoma C. Shungu
Dr. Louis O. Smith, III
Dr. Joel M. Stein
Dr. Valerie Jewells Summers
Dr. Jody L. Tanabe
Ms. Lora Di Padova-Tannehill
Maria P. and Frank C. Di Padova
Dr. Carlos H. Torres
Dr. Behroze A. Vacha
Dr. Arastoo Vossough
Dr. J. Geoff Wiot
Dr. Wade H.M. Wong
Dr. Stephen M. Ying
Dr. Amir A. Zamani
Dr. Albert Zilkha

Up to $249
Dr. Jay P. Agrawal
Dr. Vikas Agrawal
Afthab Ahmed
ASNR Staff
Dr. Scott H. Allen
Dr. Michael U. Antonucci
Dr. Maria Aragao
Dr. Andres Arbelaez
Angelo Artemakis
Dr. Boyd C. Ashdown
Dr. Andrew E. Auber
Dr. Joseph M. Aulino
Dr. Gregory D. Avey
Dr. Lev Bangiyev
Dr. Daniel P. Barboriak
In memory of Paul F.J. New, MD, FACP
Dr. Douglas J. Bates
Dr. Clifford J. Belden
Dr. George Benashvili
Dr. David Berns
Rahul Bhala
Giles Black
Dr. Ari M. Blitz
In memory of Dr. Bill Bradley
Dr. Sarah A. Bochar
Dr. Eric C. Bourekas
Dr. Richard A. Bronen
Dr. Allan L. Brook
Dr. Douglas C. Brown
Dr. Anthony J. Bruno, Jr.
Dr. John Timothy Burger
Dr. Vernon D. Byrd
Ken F. Cammarata
Dr. James B. Carrico, Jr.
Dr. Donald W. Chakeres
Dr. Stephen Chan
Dr. Jennifer Chang
Dr. Yin J. Chen
In honor of Division of Neuroradiology at University of Pennsylvania
Dr. Sammy Chu
Dr. Alexander Copelan
Dr. Joseph P. Cousins
Dr. Moungnyan Cox
Dr. Jeffrey L. Creasy
Dr. Juan Pablo Cruz
Dr. J. Matthew Debnam
Dr. Jamal J. Derakhshani
Dr. Anna Derman
Dr. Nripendra C. Devanath
Dr. Jon J. DeWitte
Dr. William D. Donovan
Dr. Sathish K. Dundamadappa
Dr. Steven A. Dunnagan
Dr. Christopher R. Durst
Theresa Espinosa
The ASNR staff
Dr. Richard T. Falter, Jr.
Dr. Nancy J. Fischbein
Dr. Maurice Fitzpatrick
Dr. Robert M. Freeby

Dr. Timothy A. Frye
Dr. John R. Gaughen, Jr.
Dr. Bernard T. Gero
Dr. Rachael E. Gordon
Dr. Neelsh Gupta
Dr. David Gutman
Dr. Richard A. Haas
Dr. H. Phillip Hahn
Dr. Grant Hieshima
Dr Anne Osborne Professor program
Dr. Peter G. Hildenbrand

Dr. Virginia B. Hill
Dr. Jenny K. Hoang
Dr. Alan J. Holz
Dr. Kuang-chun J. Hsieh
Dr. Raymond Y. Huang
Dr. Steven T. Hunt
Dr. Jason Michael Huston
Dr. Sarah F. Ifthikharuddin
Dr. Jana Ivanidze
Michael Voryk, ZL
Dr. Christopher R. Joy
Dr. Peter W. Joyce
Dr. Brian T. Kainey
Dr. Andrew J. Kalnin
Dr. Boris A. Karaman
Dr. Gregory A. Kaufmann
Dr. Irwin A. Keller
Dr. Prabhakar P. Kesava
Dr. Leena M. Ketonen
Dr. Arshad A. Khan
Dr. Virendra Kumar
Dr. JoAnne L. Lacey
Dr. Theodore C. Larson, III
Dr. Meng Law
Dr. Jillian W. Lazor
Richard Empric
Dr. Grace M. Lee
Dr. Raisa Lev
Dr. Alan Lobo
Dr. Karl O. Lovblad
Dr. Yvonne Lui
Dr. and Mrs. Robert R. Lukin
Karen L. Lyp
Dr. Andrew C. McClelland
Dr. David J. Mikulis
Dr. Christine M. Miller
Dr. Michelle M. Miller-Thomas
Dr. Bradd R. Millian
Dr. Suyash Mohan
My father, Late Madan Mohan
Dr. Walter J. Montanera
Dr. Robert E. Morales
Dr. Andrés Moreno De Luca
Dr. Jonathan A. Morgan
Dr. Todd A. Mulderink
Dr. Sofia Muzzafar
Dr. Surya P. Nadimpalli
Dr. Dan Thach Dam Nguyen
Dr. Sunith N. Niogi
Dr. Edward R. Noble
Dr. Olaf B. Nordling
Dr. Michael J. Opatowsky
Dr. Mark C. Oswood
Dr. Prashant Parasharuma
Dr. Gaetano T. Pastena
Dr. Thomas W. Peltola
Dr. Mark J. Pfeifer
Dr. Mylilen S. Pham
Bill Bradley
Dr. Gregory M.S. Phelan
Dr. G. Lee Pride, Jr.
Dr. Robert M. Quencer and Christine Quencer