

# 2019 Stewardship Report

## The Year in Review

Thank you for giving so generously to the **Neurosurgery Research & Education Foundation (NREF)**. Since its inception, the NREF has made significant strides in advancing the specialty and improving patient care through the investment of **more than \$28 million** in neurosurgery, including **\$1,783,062** in Fiscal Year 2019 (7/1/18-6/30/19).

None of this is possible without the support of generous donors like you. **Together, we will advance neurosurgery and improve lives.**

### RESEARCH – GRANTS, FELLOWSHIPS AND AWARDS

- The NREF awarded the following grants and fellowships in 2019:
  - **25** Medical Student Summer Research Fellowships, including five supported by a generous contribution from Aaron A. Cohen-Gadol, MD, MBA, FAANS
  - **12** NREF Research Fellowship Grants and Young Clinician Investigator Awards in cerebrovascular, pain, pediatrics, spine, stereotactic and functional, trauma and tumor were awarded to neurosurgical residents and junior faculty
  - **13** Clinical Fellowship Grants for the 2019-20 academic year, supported by industry partners, including DePuy Synthes, Globus Medical, Medtronic and NuVasive
  - **2** Cerebrovascular Section Traveling Fellowships were awarded to practicing, CAST-certified neurointerventionalists
  - **1** William P. Van Wagenen Fellowship was awarded to Ezequiel D. Goldschmidt, MD, PhD, a resident at University of Pittsburgh
- The JNS published "*Characteristics and career outcomes of Neurosurgery Research and Education Foundation research fellowship recipients*", co-authored by NREF grant recipient Analiz Rodriguez, MD, PhD

### EDUCATION – COURSES AND SPECIAL PROGRAMS

- The NREF sponsored five courses in 2019 for neurosurgical residents and fellows to receive advanced educational training.
- The AANS and the NREF are collaborating with the European Association of Neurosurgical Societies (EANS) to provide residents an opportunity to further their neurosurgical knowledge and forge friendships with their European counterparts.

### OUTCOMES

The NREF Board of Directors gratefully acknowledges **Medtronic** and **DePuy** for their continued support of *Effectiveness of Fusion for Grade I Spondylolisthesis*, a **NeuroPoint Alliance** (NPA) QOD study.

### CUSHING CIRCLE OF GIVING

The **Cushing Circle of Giving**, a cumulative lifetime giving society for donors committed to advancing neurosurgery with a contribution or pledge of \$25,000 or more, welcomed the following new and elevated members in the past year:

#### Individual Donors

- Ronald I. Apfelbaum, MD, FAANS(L)
- Peter W. Carmel, MD, FAANS
- John R. Caruso, MD, FAANS
- William L. Caton, III, MD, FAANS
- Jefferson W. Chen, MD, PhD, FAANS
- Kevin M. Cockroft, MD, FAANS
- M. Sean Grady, MD, FAANS
- Adam S. Kanter, MD, FAANS
- Adrian W. Laxton, MD, FAANS
- James J. Lynch, MD, FAANS
- Jacques J. Morcos, MD, FAANS
- Christopher J. Neal, MD, FAANS
- Michael Schulder, MD, FAANS
- Walavan Sivakumar, MD
- Gary K. Steinberg, MD, PhD, FAANS
- Marjorie C. Wang, MD, MPH, FAANS
- Stacey C. Wolfe, MD, FAANS

#### Institutional Donors

- American Society for Stereotactic and Functional Neurosurgery (ASSFN)
- Barrow Neurological Institute
- Robert Watson Society
- University of North Carolina Department of Neurosurgery

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### Elevated Donors

#### Platinum

- Dr. and Mrs. Russel H. Patterson Jr.

#### Gold

- John L. D. Atkinson, MD, FAANS
- Hans C. Coester, MD, FAANS

#### Silver

- Aaron A. Cohen-Gadol, MD, FAANS
- Kai-Ming Fu, MD, PhD, FAANS
- Theodore R. Jacobs, MD, FAANS
- Benjamin B. LeCompte III, MD, FAANS(L)
- Drs. Shelly D. Timmons and Russel A. Carter
- Michael Y. Wang, MD, FAANS

### YOUNG NEUROSURGEONS CIRCLE OF GIVING

This giving society, recognizing residents who have made a commitment early in their careers to advance the specialty through support of neurosurgical research and education, includes the following members:

#### Gold

- Nitin Agarwal, MD, Univ. of Pittsburgh
- Nathaniel R. Ellens, MD, Univ. of Rochester
- Redi Rahmani, MD, Univ. of Rochester

#### Silver

- Ezequiel D. Goldschmidt, MD, PhD, Univ. of Pittsburgh
- Stephen T. Magill, MD, PhD, Univ. of California/San Francisco
- Michael M. McDowell, MD, Univ. of Pittsburgh

#### Bronze

- Joel Beckett, MD, Univ. of California/Los Angeles
- Allen L. Ho, MD, Stanford University
- Ibrahim Hussain, MD, New York Presbyterian/Cornell
- Neil Majmundar, MD, Rutgers New Jersey Medical School
- Visish M. Srinivasan, MD, Baylor College of Medicine
- Steven Tenny, MD, MPH, MBA, Univ. of Nebraska

### PINNACLE PARTNERS IN NEUROSURGERY

The NREF gratefully acknowledges the following corporate supporters for their commitment to advance neurosurgery:

#### Principal Partner

Medtronic

#### Major Partner

DePuy Synthes

#### Supporting Partners

Brainlab, Globus Medical, Leica Microsystems, Varian Medical Systems and ZEISS

### PARTNERSHIPS

- **B\*CURED** – The NREF awarded the fourth \$50,000 B\*CURED-NREF Research Grant, funded by B\*CURED, a non-profit organization whose mission is to end brain cancer, to Christina Jackson, MD, of Johns Hopkins University.
- **AANS Young Neurosurgeons Committee (YNC)** – The NREF has partnered with the YNC to present the **NREF-YNC Social Media Lab**, whose mission is to promote social media engagement and education among neurosurgeons.
- **The Chuck Noll Foundation** – The inaugural Chuck Noll Lecture on Neurotrauma was delivered by Joseph Charles Maroon, MD, FAANS(L), at the 2019 AANS Annual Scientific Meeting.

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### HONOR YOUR MENTOR FUNDS

**Honor Your Mentor** (HYM) Funds recognize neurosurgical luminaries, both past and present. There are now 56 HYM Funds, with pledges totaling \$5,814,658 from 1,711 donors. HYM Fund honorees include:

A. Leland Albright	Ed Benzel	Kent C. New	Robertson Brothers
Albert L. Rhoton, Jr.	Edward H. Oldfield	Kim J. Burchiel	Roy A. E. Bakay
Allan H. Friedman	Edward R. Laws	L. Dade Lunsford	Sanford J. Larson
Andrew T. Parsa	Edward S. Connolly	Lyal G. Leibrock	Sanjiv Bhatia
Anthony Marmarou	Henry G. Schwartz	Martin H. Weiss	Shelly D. Timmons
Charles B. Wilson	Hoi Sang U	Michael T. Lawton	Stewart B. Dunsker
Charles G. Drake	Howard J. Silberstein	Peter J. Jannetta	Thoralf M. Sundt, Jr.
Charles Kuntz IV	Jack P. Rock	Philip E. Stieg	Ulrich Batzdorf
Charles L. Branch, Sr.	James T. Rutka	R. Michael Scott	Volker K.H. Sonntag
Charles H. Tator	John A. Jane, Sr.	Ralph G. Dacey	Warren C. Boop, Jr.
Christopher I. Shaffrey	John C. Oakley	Regis W. Haid, Jr.	Warren R. Selman
David L. Kelly, Jr.	Joseph S. Cheng	Richard G. Fessler	Global Humanitarian
David Kline	Karin M. Muraszko	Robert E. Harbaugh	Military Hereos
Donald O. Quest	Katie O. Orrico	Robert F. Heary	NSA Neurosurgical Founders

To date, the following HYM Funds have provided over \$300,000 in funding for projects and awards:

#### **Albert L. Rhoton Fund**

Rhoton Young Clinician Investigator Award for Neuroanatomical Research  
2018 Maria Peris-Celda, MD, PhD, Albany Medical College

Rhoton Medical Student Summer Research Fellowship  
2018 Sricharan Gopakumar, Baylor College of Medicine  
Brian F. Jimenez, University of Tennessee

#### **Andrew T. Parsa Fund**

Andrew T. Parsa Research Fellowship Grant  
2017 Darryl Lau, MD, University of California-San Francisco  
2018 Teddy Kim, MD, Wake Forest School of Medicine  
2019 Benjamin T. Himes, MD, Mayo Clinic

#### **Charles Drake Fund**

The fund provides support to the AANS/CNS Cerebrovascular Section for ongoing educational and research programs.

#### **Charles Kuntz IV Fund**

The fund supports awards for residents and fellows to present research at the Annual Meeting of the AANS/CNS Section on Disorders of the Spine and Peripheral Nerves.

2017 Vincent J. Alentado, Michael Brendan Cloney, Doniel Drazin, Benjamin D. Elder, George M. Ghobrial, C. Rory Goodwin, Peter Grunert, Daipayan Guha, Ibrahim Hussain, Christian Iorio-Morin, Evan Joseph Lytle, Allan R. Martin, Meghan Murphy, Aria Nouri, Vijay Ravindra, Ahilan Sivaganesan, Vijay Yanamadala, Michael M.H. Yang and Scott L. Zuckerman

2018 Mark Andrew Attiah, Yi-Ren Chen, Lee Onn Chieng, Michael Cloney, Shashank V. Gandhi, Jakub Godzik, Jian Guan, Allen L. Ho, Katie L. Krause, Darryl Lau, Jay Kiran Nathan, Tianyi Niu, Imran Noorani, Eric W. Sankey, Ganesh Shankar, Corey Tyler Walker, Vijay Yanamadala, Juneyoung L. Yi and Hesham Mostafa Zakaria

2019 Owoicho Adogwa, Mohammed Ali Alvi, Mark Andrew Attiah, Oliver GS Ayling, Andrew Kai-Hong Chan, Islam Fayed, Shashank V. Gandhi, Jack M. Haglin, Allen L. Ho, Sertac Kirnaz, Mohamed Macki, Anthony L. Mikula, Aria Nouri, Zachary Sanford, Alisson R. Teles, Zoe E. Teton, Jamie RF Wilson, Michael M.H. Yang, Hesham Mostafa Zakaria and Scott L. Zuckerman

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### **Donald O. Quest Fund**

Donald O. Quest Basic Science Award for Medical Student

2016 Kristen A Batich  
2017 Vaidehi Mahadev  
2018 Ahmed Jorge, PhD  
2019 Deborah Boyett

Donald O. Quest Clinical Science Award for Medical Student

2016 Jason Anthony Liew  
2017 Gautam Madhu Nayar  
2018 Aaron Gelinne  
2019 Shehryar Sheikh

Donald O. Quest Basic Science Award for Candidate Member or Non-Member (Resident)

2016 Ganesh Mani Shankar, MD  
2017 Gentian Toshkezi, MD  
2018 Dominic Maggio, MD  
2019 Alexander Ksendzovsky, MD

Donald O. Quest Clinical Science Award for Candidate Member or Non-Member

2016 Allen Ho, MD  
2017 Richard Rammo, MD  
2018 Andrew K. Chan, MD  
2019 Siir Sahib Singh Khalsa, MD

### **Ralph G. Dacey Fund**

2018 Ralph G. Dacey, Jr.  
2019 E. Sander Connolly, Jr.

### **Regis W. Haid, Jr. Fund**

The fund provides ongoing support for the NPA *Effectiveness of Fusion for Grade I Spondylolisthesis* study.

### **Stewart B. Dunsker Fund**

2018-20 Jetan Bhadiwala, MD

### **Warren C. Boop, Jr. Fund**

2017 Heather Pinckard-Dover, MD  
2019 Olusoji Afuwape, MD, PhD  
Matthew Helton, MD  
Patrick Paullus, MD

Congratulations to all HYM Fund award recipients and offer best wishes for their continued success.

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The Neurosurgery Research & Education Foundation (NREF) is a not-for-profit, 501(c)(3) organization created in 1980 by the American Association of Neurological Surgeons (AANS) to support research and education efforts that enhance and confirm the critical role neurosurgeons play in improving lives. For more information about the NREF, visit [www.nref.org](http://www.nref.org).