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The AANEM Foundation for Research and Education remains well supported and continues to successfully pursue its mission to fund important scientific research related to neuromuscular, musculoskeletal, and electrodiagnostic medicine through the distribution of development grants and clinical research fellowships. Additionally, the position of the AANEM Foundation remains strong thanks to the professional management it receives.

Due to the support of the AANEM as well as donations from AANEM members and the public at large, the AANEM Foundation remains on track to meet its goals for research funding. I encourage each of you to join me and every AANEM board member in making a charitable donation to the AANEM Foundation in support of furthering the science of neuromuscular and electrodiagnostic medicine.

Eric J. Sorenson, MD
2017-2018 AANEM President
ABOUT THE AANEM FOUNDATION

The AANEM Foundation provides funds to help develop the next generation of researchers to advance the science and practice of neuromuscular (NM) and electrodiagnostic (EDX) medicine. The ultimate goal in promoting NM and EDX scientific research and education is to improve the lives of patients with NM diseases.
HONORED RESEARCH

The AANEM Foundation is pleased to celebrate outstanding research in neuromuscular and electrodiagnostic medicine. Each year, 200+ research abstracts are submitted for presentation at the AANEM Annual Meeting and certain abstracts are selected to win awards. Here are some of the researchers who received the Foundation’s top award honors in 2018.

Golseth Young Investigator Award
The Golseth Young Investigator Award is presented annually to a medical student or physician in the early stages of his/her career for original research in neuromuscular or electrodiagnostic medicine.

Award Recipient
Katherine Clifford, BA
Abstract Title: Thymectomy is Not Associated With Clinical Improvement in a Multi-Center Cohort of Patients With Anti-MuSK Myasthenia Gravis

Award Runner-up
Long Davalos, MD
Abstract Title: Erythromelalgia and Sensory Neuropathy in Autoimmune Hepatitis: A Case Study

Best Abstract Award
The Best Abstract Award is given to the first and presenting author of the best research paper submitted to the AANEM Annual Meeting.

Award Recipient
Goran Rakocevic, MD
Abstract Title: Quantitative Clinical and Autoimmune Assessments in Stiff Person Syndrome: Evidence for a Progressive Disorder

Award Runner-up
Shruti Raja, MD
Abstract Title: Validation of the Triple Timed Up-and-Go Test for Clinical Assessment in Lambert-Eaton Myasthenia Patients

Technologist Best Abstract Award
The AANEM Technologist Best Abstract Award is given to the first and presenting author of the best research paper submitted by a technologist who has conducted research in neuromuscular and electrodiagnostic medicine.

Award Recipient
Favio C. Bumanlag, BA
Abstract Title: Clinical, Laboratory and Electrodiagnostic Features of Zinc Deficiency-induced Peripheral Neuropathy

Award Runner-up
Ali Arvantaj, CAP
Abstract Title: Agarose Based Acetylcholine Reduces Quantitative Sudomotor Axon Reflex Test’s (QSTART) False Positives
Researchers
Suma Babu, MBBS, MPH
Instructor in Neurology
Harvard Medical School
Massachusetts General Hospital

Research Project
Positron Emission Tomography (PET) Imaging for Characterizing Neuroinflammation of Spinal Cord in Amyotrophic Lateral Sclerosis (ALS)

Research Project Summary
Dr. Babu is using this funding to learn more about changes in the spinal cord and to study the role of inflammation in the spinal cord of people living with ALS. In her research study, Dr. Babu will be using state-of-the-art imaging techniques – Magnetic Resonance Imaging (MRI) and Positron Emission Tomography (PET) – to take high-resolution pictures of the spinal cord and test for inflammatory activity, all without surgery.

The PET dye to be used in this study is called PBR28, which highlights inflammation of the central nervous system. Dr. Babu’s research will build on preliminary spinal cord PBR28-PET data in ALS subjects and seeks to characterize the clinical and biological relevance of this molecular imaging outcome.

Dr. Babu’s AANEM Foundation Development Grant
• 2-year grant totaling $100,000
• $1,500 travel award to attend the AANEM Annual Meeting and present the research following completion of the project
• Complimentary AANEM Annual Meeting registration in the year the research is presented
• Complimentary AANEM membership for duration of funding period

NEW FUNDED RESEARCH

“This study will provide useful insight into the characteristics and patterns of spinal cord PBR28-PET uptake and will quantify spinal cord glial activation in vivo in ALS. The data generated by the study will inform the design of future longitudinal studies, and subsequently, clinical drug trials targeting neuroinflammation in ALS subjects with lower motor neuron dysfunction.”

~ Dr. Babu
NEW FUNDED RESEARCH

Researcher
Carlo Rinaldi, MD, PhD
Associate Professor
Department of Physiology, Anatomy and Genetics
Division of Medical Sciences, University of Oxford, United Kingdom

Research Project
Androgen Receptor Isoforms: From SBMA Pathogenesis to Therapeutic Targets

Research Project Summary
Dr. Rinaldi is using this funding to increase understanding of the pathophysiology of spinal and bulbar muscular atrophy (SBMA), also named Kennedy’s disease, a neuromuscular disorder characterized by the degeneration of lower motor neurons and primary muscle atrophy. Dr. Rinaldi’s ultimate goal is to develop effective therapeutic treatments for this yet incurable condition.

Dr. Rinaldi’s research objective is to characterize the role of the androgen receptor (AR) isoform 2 on AR biology and its impact on SBMA toxicity. His central hypothesis is that AR45 is a key regulator of AR activity and represents a promising therapeutic target for SBMA.

Dr. Rinaldi’s AANEM Foundation/MDA Co-Funded Development Grant
• 3-year grant totaling $123,933
• $1,500 travel award to attend the AANEM Annual Meeting and present the research following completion of the project
• Complimentary AANEM Annual Meeting registration in the year the research is presented
• Complimentary AANEM membership for duration of funding period

“Ther is currently no treatment available for SBMA. This research work has the potential to shed new light on the role of the AR isoforms in both health and disease, advance understanding of the mechanisms of pathogenesis in SBMA, and provide a new therapeutic target in close relationship with the disease-causing mutation.”

~ Dr. Rinaldi
FUNDING FOR TREATMENTS & CURES

In 2017, Mattia Quattrocelli, PhD, of the Center for Genetic Medicine at Northwestern University in Chicago, Illinois, received a 3-year development grant co-funded by the AANEM Foundation and the Muscular Dystrophy Association for his research initiative titled, “Glucocorticoids in Fiber Repair and Regeneration of Dystrophic Muscles.” Dr. Quattrocelli says the AANEM Foundation “offers an ideal hub for researchers involved in the fight against neuromuscular disorders.”

Are you conducting research on neuromuscular diseases? Are you seeking additional funding? The AANEM Foundation is proud to provide numerous opportunities for researchers to apply for clinical research fellowships and development grants to encourage research related to neuromuscular diseases.

Learn more at www.aanemfoundation.org/research.
The contributions from the AANEM Foundation are great investments in training the next generation of clinical researchers and scientists. Many of the funded projects are translational in nature and have clear implications for patients. With rapid technical advances and scientific progress, the potential benefits to patients with neuromuscular disease are great. The supported research forms a vital link to elevate the standard of practice in the future.

K. Ming Chan, MD, FRCP(C)
Chair, AANEM Research Committee

ACHIEVEMENTS

$32,396
added to the research fund from individual donors

$21,504
raised by the silent auction to support the Foundation’s programming

shared stories of 6 amazing individuals with NM disease who are hoping for a cure

“The contributions from the AANEM Foundation are great investments in training the next generation of clinical researchers and scientists. Many of the funded projects are translational in nature and have clear implications for patients. With rapid technical advances and scientific progress, the potential benefits to patients with neuromuscular disease are great. The supported research forms a vital link to elevate the standard of practice in the future.”

K. Ming Chan, MD, FRCP(C)
Chair, AANEM Research Committee
“People need to dig deep to help support this research. I know I had no idea what spinal muscular atrophy was until Hattie got diagnosed. There isn’t much awareness. But it is so very crucial that we continue studying this disease and its effects.

Kelsey McBride
Mother of Hattie, 3

“Research is so important! There is so much that doctors don’t know about the human body. We need to learn more about Guillain-Barré Syndrome (GBS), why it happens, and ultimately, we need to find a cure! It’s important to fund research for GBS because as a rare disease, it just doesn’t get the same amount of exposure that other diseases get.

Holly Gerlach
Guillain-Barré Syndrome Survivor

“The first reason continued research is needed is because there is no clearly listed cure for myasthenia gravis (MG). People with MG and other neuromuscular diseases have amazing goals and aspirations for their lives and the thought of letting those goals go unachieved because of the lack of research crushes me. Your donation could be the difference maker for some kid that still has their whole future ahead of them.

Taylor Williamson
Living with Myasthenia Gravis
MAKE A DIFFERENCE

Despite living with Lambert-Eaton myasthenic syndrome for the past 8 years, Debbie rises up, fights and crosses each and every finish line. Patients like Debbie, Hattie, Holly and Taylor are hoping for a scientific breakthrough, and that is why your gift is so important.

It is because of generous donors like you that the AANEM Foundation is able to provide funding to researchers. Even a small donation can play a big role in helping to find treatments and cures. Join us in our fight against neuromuscular disease.

Learn more at www.aanemfoundation.org/donate.
HOW YOU CAN HELP

DONATE

The more scientific research conducted on neuromuscular diseases, the closer we will get to finding a cure. Join us in the fight against neuromuscular disease. Even a small donation can help improve the lives of patients. Visit www.aanemfoundation.org/donate today!

APPLY

If you are conducting research related to neuromuscular diseases, apply for funding through the AANEM Foundation. Learn more at www.aanemfoundation.org/research.

SHARE

Visit www.facebook.com/AANEMorg and www.twitter.com/AANEMorg regularly to view and share our posts about the AANEM Foundation. Each share expands the reach of our Foundation and generates more awareness of our cause!
Thank you, Cadwell, for your support!

A special thank you to Cadwell Industries, Inc. for its generous silent auction donation in 2018. Cadwell donated one of its Sierra Summit Two-Channel EMG/NCS Systems.
## STATEMENT OF FINANCIAL POSITION - AANEM FOUNDATION
For years ending 12/31/2018 and 12/31/2017

<table>
<thead>
<tr>
<th></th>
<th>2018</th>
<th>2017</th>
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</thead>
<tbody>
<tr>
<td><strong>ASSETS</strong></td>
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<tr>
<td>Current Assets</td>
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<td>Investments</td>
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<td><strong>LIABILITIES &amp; NET ASSETS</strong></td>
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<tr>
<td>Current Liabilities</td>
<td>$147,883</td>
<td>$66,460</td>
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<tr>
<td><strong>Total Liabilities</strong></td>
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<td><strong>Net Assets</strong></td>
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<td><strong>Total Liabilities and Net Assets</strong></td>
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<td>$4,837,584</td>
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## SUMMARY STATEMENT OF ACTIVITIES - AANEM FOUNDATION
For periods ending 12/31/2018 and 12/31/2017

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<thead>
<tr>
<th></th>
<th>2018</th>
<th>2017</th>
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<tbody>
<tr>
<td><strong>TOTAL REVENUES</strong></td>
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<td>$52,800</td>
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<td><strong>TOTAL EXPENSES</strong></td>
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<td>$215,695</td>
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<td><strong>Operating Surplus</strong></td>
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<td>$\text{(162,895)}$</td>
<td>$\text{(227,277)}$</td>
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<td>Operating Margin</td>
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<td><strong>Net Investment Income</strong></td>
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<td>448,681</td>
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<td><strong>Transfer from AANEM</strong></td>
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<td><strong>CHANGE IN NET ASSETS</strong></td>
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<tr>
<td>$\text{(378,232)}$</td>
<td>$372,404</td>
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2018 BOARD OF DIRECTORS

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