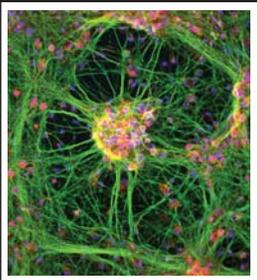


# NINDS Notes

National Institute of Neurological Disorders and Stroke

*NINDS Notes* is published 3 times a year and consists of summaries of NINDS's current funding announcements and requests for volunteers for clinical trials. *Notes* is of primary importance to scientists, physicians, and research directors with an interest in neuroscience.



Hippocampal Neurons  
Dr. Anne West, et al.

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# News & Notes

## **NINDS Names New Clinical Director, Dr. Avindra Nath**

NINDS recently named Dr. Avindra Nath as its new intramural clinical director. Nath is nationally and internationally recognized for his contributions to elucidating HIV pathogenesis in the central nervous system. In addition to becoming clinical director, he will head of the Section of Infections of the Nervous System, NINDS, and develop a center dedicated to translating new therapies for neurological disorders to clinical use.

“We are delighted that Dr. Nath has joined the intramural program. He has an outstanding research program that adds strength to our neurovirology and neuroimmunology programs,” said NINDS Director Dr. Story Landis. “Avi has superb leadership skills as well, which help ensure he will be an outstanding clinical director.”

Nath will oversee the Institute’s intramural clinical research program and the physician-scientists who are working to develop better ways to diagnose, treat, manage, and, ultimately, prevent disorders of the brain and nervous system.

According to NINDS Scientific Director Dr. Alan Koretsky, Nath will develop a focused effort that can help accelerate translational efforts in NINDS in a way that can complement NIH-wide efforts. He also will improve clinical training programs within NINDS, and help ensure that NINDS continues to attract outstanding young clinician-scientists to its intramural research program.

Early in the HIV epidemic, Nath and his colleagues discovered that Tat, a viral protein, could directly stimulate neurons. In subsequent studies he found that Tat also activated glial cells leading to chemokine release that in turn caused macrophage recruitment into the central nervous system. Most recently, Nath discovered that some individuals with HIV—despite an excellent response to retroviral treatment—develop a devastating immune cell-mediated encephalitis called CNS-immune reconstitution inflammatory syndrome. He will continue his HIV investigations at NIH.

Nath also has helped to develop several neuroprotective compounds that are in various stages

of development and clinical testing. Because of shared cellular and molecular mechanisms these compounds may have potential use in a wide variety of neurodegenerative and neuroinflammatory diseases.

Born in Saskatoon, Canada, Nath earned his medical degree from the Christian Medical College in Ludhiana, India. He then completed both a neurology residency and a neuroimmunology fellowship at the University of Texas Health Science Center in Houston. In 1990 he completed a fellowship in neurovirology at NINDS, working in the Section of Molecular Virology and Genetics in the Laboratory of Viral and Molecular Pathogenesis.

After leaving NIH, he joined the faculty of the University of Manitoba in Winnipeg, Canada, where he served as an associate professor in the departments of Medical Microbiology and Internal Medicine. He later joined the University of Kentucky faculty, serving as a professor in the Microbiology and Immunology and Neurology departments.

Before returning to NIH, Nath was a professor of neurology and neuroscience. He held several important leadership positions at the Johns Hopkins University School of Medicine, serving as director of the Division of Neuroimmunology and Neurological Infections (DNNI), and director of the Neurovirology and Neuroimmunology Laboratory (NNL). He also served as the co-director of the Neuro-AIDS Translational Research Center. As director of the DNNI and NNL, he recruited an exceptional cadre of investigators and created the clinical fellowship program in Neuroimmunology and Neurological Infections—the only one of its kind in the country.

Nath has published more than 200 manuscripts, reviews, and book chapters, and served on the editorial board for the *Journal of Neurovirology* and *Current HIV Research*. Currently, he chairs the Section of Neuro-infectious Diseases of the American Academy of Neurology (AAN) and serves as vice president of the International Society of Neurovirology. Nath is an elected member of the American Neurological Association.<sup>MM</sup>



# Funding Opportunities

## New Format for NIH Funding Announcements

The format of NIH funding announcements recently received a makeover. The new shorter, easier-to-read, and more scientifically-focused format eliminates redundancy, limits the amount of administrative detail, and directs applicants to the most up-to-date sources of information. It also simplifies the application writing process for applicants, increases announcement clarity and transparency, and ensures that funding announcements are current as changes are made to source documents.

Announcements published in the previous format are still valid until their expiration date. Announcements for other agencies including AHRQ, CDC, and FDA also are moving to the new format. For more information contact [grantsinfo@nih.gov](mailto:grantsinfo@nih.gov).<sup>NIH</sup>

## Heads up!

### NINDS Announces Upcoming Funding Opportunities

NINDS announces its intent to soon publish two funding opportunities. This early notice will allow potential applicants sufficient time to develop meaningful collaborations and responsive projects.

One new initiative will solicit applications for hypothesis-driven clinical research studies that will accelerate and augment the discovery of biomarkers as a component of the NINDS Parkinson's Disease Biomarkers Identification Network (PD-BIN). The announcement is expected to be published in late spring 2011 with a receipt date in fall 2011. For more information contact Dr. Katrina Gwinn, program director, Neurogenetics Cluster, NINDS, at [gwinnk@mail.nih.gov](mailto:gwinnk@mail.nih.gov) or 301-496-5745.

The other funding opportunity will promote the continued development of publically available, well characterized, induced pluripotent stem cell research resources. These resources will encourage collaborative research among investigators and ultimately accelerate basic science discoveries and therapeutic development for late-onset neurodegenerative disorders. The announcement is expected to be published in spring 2011 with a receipt date in early summer 2011. For more information contact Dr. Margaret Sutherland, program director, Neurodegeneration Cluster, NINDS, at [sutherlandm@ninds.nih.gov](mailto:sutherlandm@ninds.nih.gov) or 301-496-9531.<sup>NIH</sup>

## Blueprint: Tools for Brain and Behavioral Research

NINDS invites small business applications to further develop tools for brain and behavioral research—moving them from the laboratory to the marketplace. This announcement is affiliated with the NIH Blueprint for Neuroscience Research.

The NIH Blueprint is a framework to enhance cooperative activities among 16 NIH Institutes, Centers, and Offices that support research on the nervous system.

NIH invests significantly in new technologies to study the brain and behavior, from basic to clinical perspectives. This investment has produced a large number of technologies that include hardware, software, and wetware. While these technologies are put to good use by their developers, little attention is devoted to making these tools robust and easy-to-use by the broad research community. The goal of this initiative is to help move useful technologies from non-commercial laboratories into the commercial marketplace. Also encouraged are applications for competing renewals of existing Phase II grants to research and develop such technologies. The competing award would provide up to an additional 3 years of support at a total cost funding level of up to \$800,000 per year.

Potential applicants should contact Stephanie Fertig, research project manager, Office of Translational Research, NINDS, at 301-496-1779 or [fertigs@ninds.nih.gov](mailto:fertigs@ninds.nih.gov). For more information visit <http://grants.nih.gov/grants/guide/pa-files/PA-11-134.html> or <http://grants.nih.gov/grants/guide/pa-files/PA-11-135.html> (competing renewals).<sup>NIH</sup>

## Central Nervous System and Glycemia

NINDS and NIDDK encourage applications for collaborative studies on the central nervous system (CNS) and glycemia.

The CNS plays a vital role in regulating glucose levels. CNS regulation of glycemic control has been demonstrated in basic and clinical studies. The purpose of this announcement is to promote new interdisciplinary collaborations between researchers in neuroscience and diabetes/metabolism to further understand the mechanisms in CNS regulation of glucose levels and in how the CNS responds to both high and low glucose levels.

Potential applicants should contact Dr. Merrill Mitler, program director, Systems and Cognitive Neuroscience Cluster, NINDS, at 301-496-9964 or [mitlerm@ninds.nih.gov](mailto:mitlerm@ninds.nih.gov). For more information visit <http://grants.nih.gov/grants/guide/pa-files/PAS-11-029.html>.<sup>NIH</sup>

### **Continued Development and Maintenance of Software**

NINDS invites grant applications to continue developing and maintaining software. This announcement is made together with 8 other NIH components.

Biomedical researchers increasingly develop software to solve problems specifically related to their individual laboratories. Sometimes this software is useful to a much broader community of users. This announcement supports the continued development, maintenance, testing, and evaluation of existing biomedical, informatics/computational, biology software that serves a broader community or has the potential to attract more users.

Potential applicants should contact Dr. Yuan Liu, chief, Office of International Activities, NINDS, at 301-496-9523 or [liuyuan@ninds.nih.gov](mailto:liuyuan@ninds.nih.gov). For more information visit <http://grants.nih.gov/grants/guide/pa-files/PA-11-028.html>.

### **Genetic Susceptibility and Variability of Human Structure Birth Defects**

NINDS invites applications for research on genetic susceptibility and variability of human structural birth defects. This announcement is made together with 6 other NIH components.

Each year, nearly five percent of all live births in the United States involve babies with birth defects. Next to accidents, birth defects are the leading cause of death in children—accounting for half of all pediatric hospitalization. This funding opportunity supports innovative research using animal models and translational/clinical approaches to identify the specific genetic, epigenetic, environmental, or gene/environment interactions associated with the susceptibility to and variability of structural birth defects in humans.

Potential applicants should contact Dr. Katrina Gwinn, program director, Neurogenetics Cluster, NINDS, at 301-496-5745 or [gwinnk@mail.nih.gov](mailto:gwinnk@mail.nih.gov). For more information visit <http://grants.nih.gov/grants/guide/pa-files/PA-11-085.html>.

### **HIV Infection of the Central Nervous System**

NINDS encourages applications for research on HIV infection of the central nervous system (CNS). This announcement is made together with 3 other NIH components.

This initiative supports research focused on defining the pathogenic mechanisms involved in human immunodeficiency virus (HIV)-1 associated neurocognitive disorders (HAND) and identifying therapeutic strategies to treat and prevent the neurobehavioral and neurological effects of HIV-1 on the CNS. Applications ranging from basic research to clinical diagnosis and treatment are of interest. Multidisciplinary research teams and collaborative alliances are encouraged.

Potential applicants should contact Dr. May Wong, program director, Neural Environment, NINDS, at 301-496-1431 or [mw132k@nih.gov](mailto:mw132k@nih.gov). For more information visit <http://grants.nih.gov/grants/guide/pa-files/PA-11-014.html>.

### **Institutional Clinical and Translational Science Awards**

NIH requests applications for Institutional Clinical and Translational Science Awards.

This initiative is funded through the NIH Common Fund, which supports cross-cutting programs that are expected to have exceptionally high impact. All Common Fund initiatives encourage investigators to develop bold, innovative, and often risky approaches to address problems that may seem intractable or to seize new opportunities that offer the potential for rapid progress.

This award assists institutions in creating an integrated academic home for clinical and translational science that has the resources to train and advance multi- and interdisciplinary investigators and research teams. It also increases the safety, efficiency, and speed of clinical and translational research.

Letters of Intent Due May 11, 2011

Applications Due June 11, 2011

Potential applicants should contact Dr. Anthony Hayward, director, Division for Clinical Research Resources, NCCR; telephone: 301-435-0791; email: [haywarda@mail.nih.gov](mailto:haywarda@mail.nih.gov). For more information visit <http://grants.nih.gov/grants/guide/rfa-files/RFA-RM-10-020.html>.

### **Intellectual and Developmental Disabilities—Predict Treatment Outcomes**

NINDS encourages applications for preclinical research on model organisms to predict treatment outcomes for disorders associated with intellectual and developmental disabilities (IDD). This announcement is made together with 2 other NIH components.

Over the past several decades, major advances have been made in finding the genetic and environmental causes of many forms of IDD in children and adults. Historically, treatment has focused on alleviating symptoms. More recently, however, a great deal has been learned about the mechanisms and pathways that underlie such disorders. As promising therapeutics move to preclinical (animal) testing, there is a critical need for sensitive, reliable, and valid outcome measures and/or surrogate markers in model organisms, particularly measures that can predict safety, toxicity, and efficacy in human trials. The goal of this announcement is to accelerate and improve the preclinical testing of candidate treatments and therapeutic compounds in order to move promising new drug therapies to clinical trials.

Potential applicants should contact Dr. Laura Mamounas, program director, Neurogenetics Cluster, NINDS, at 301-496-5745 or [mamounal@mail.nih.gov](mailto:mamounal@mail.nih.gov). For more information visit <http://grants.nih.gov/grants/guide/pa-files/PAR-11-038.html>.<sup>NIH</sup>

### **Intellectual and Developmental Disabilities—Outcome Measures for Treatment Trials**

NINDS invites applications to develop, validate, and/or calibrate informative outcome measures for use in treatment trials for individuals with intellectual and developmental disabilities (IDD). This announcement is made together with 2 other NIH components.

Clinical trials are being designed that seek to alleviate the debilitating medical symptoms associated with IDD, such as Down syndrome, Fragile X syndrome, Rett syndrome, Angelman syndrome, Prader-Willi syndrome, and autism spectrum disorders. There is an urgent need to identify outcome measures that demonstrate treatment benefit for pharmacologic interventions or behavioral trials developed for use in these disorders, particularly in children. This initiative encourages the identification of endpoints for use in clinical trials of IDD therapies.

Potential applicants should contact Dr. Laura Mamounas, program director, Neurogenetics Cluster, NINDS, at 301-496-5745 or [mamounal@mail.nih.gov](mailto:mamounal@mail.nih.gov). For more information visit <http://grants.nih.gov/grants/guide/pa-files/PAR-11-045.html>.<sup>NIH</sup>

### **International Neuroscience Fellowships**

NINDS invites applications for International Neuroscience Fellowships (INFs). This announcement is made together with 7 other NIH components.

INFs advance the training of qualified foreign neuroscientists and clinicians at the early or mid-career level, by enhancing their research skills in a US research setting. The program prepares awardees for independent careers in academics, research, or clinical institutions in their home countries, and strengthens the intellectual capital of neuroscience research in foreign institutions, particularly those with limited economic resources.

Potential applicants should contact Dr. Yuan Liu, chief, Office of International Activities, NINDS, at 301-496-9523 or [liuyuan@ninds.nih.gov](mailto:liuyuan@ninds.nih.gov). For more information visit <http://grants.nih.gov/grants/guide/pa-files/PAR-11-106.html>.<sup>NIH</sup>

### **NIH-HMO Collaboratory Coordinating Center**

NIH requests applications to develop an NIH-HMO Collaboratory Coordinating Center as part of the HMO Collaboratory program.

This initiative is funded through the NIH Common Fund, which supports cross-cutting programs that are expected to have exceptionally high impact. All Common Fund initiatives encourage investigators to develop bold, innovative, and often risky approaches to address problems that may seem intractable or to seize new opportunities that offer the potential for rapid progress.

The HMO Collaboratory program was created to establish a research framework for conducting mega-epidemiology studies and clinical trials in priority disease areas. It aims to speed efficiency, generate faster evidence, take advantage of high-throughput technologies, and leverage known economies of scale across health maintenance organizations (HMOs). The Collaboratory will develop and test the ability of a network of healthcare organizations to conduct potentially transformative research using longitudinal data from large populations. The goal of this announcement is to establish a center that will provide clinical research teams and HMO healthcare providers with the technology and tools to enhance data collection, improve the infrastructure, and ensure the quality and security of research data.

Letters of Intent Due April 27, 2011

Applications Due May 27, 2011

Potential applicants should contact Dr. Laura Lee Johnson, statistician, Office of Clinical and Regulatory Affairs, NCCAM, at 301-435-2591 or [johnslau@mail.nih.gov](mailto:johnslau@mail.nih.gov). For more information visit <http://grants.nih.gov/grants/guide/rfa-files/RFA-RM-11-003.html>.<sup>NIH</sup>

### **NIH Summer Research Experience Program**

NINDS encourages applications for the NIH Summer Research Experience program. This announcement is made together with 10 other NIH components.

The NIH Summer Research program provides high quality research experience for high school and college students and for science teachers during the summer academic break. NIH expects such programs to help attract young students to careers in science; provide opportunities for college students to gain valuable research experience to help prepare them for graduate school; and enhance the skills of science teachers and enable them to more effectively communicate the nature of the scientific process to their students.

Potential applicants should contact Dr. Stephen Korn, director, Training and Career Development, NINDS; telephone: 301-496-4188; email: [korns@ninds.nih.gov](mailto:korns@ninds.nih.gov). For more information visit <http://grants.nih.gov/grants/guide/pa-files/PA-11-050.html>.<sup>NIH</sup>

### **Ruth L. Kirschstein National Research Service Awards—Individual Postdoctoral Fellows**

NINDS invites applications for Ruth L. Kirschstein National Research Service Awards for Individual Postdoctoral Fellows. This announcement is made together with 15 other NIH components.

This award supports promising postdoctoral applicants who have the potential to become productive and successful independent researchers. The proposed postdoctoral training must offer an opportunity to enhance the applicant's understanding of the health-related sciences, and must be within the broad scope of biomedical, behavioral, or clinical research. The overall purpose of the award is to help ensure that diverse pools of highly trained scientists will be available in adequate numbers to address the Nation's research needs.

Potential applicants should contact Dr. Stephen Korn, director, Training and Career Development, NINDS; telephone: 301-496-4188; email: [korns@ninds.nih.gov](mailto:korns@ninds.nih.gov). For more information visit <http://grants.nih.gov/grants/guide/pa-files/PA-11-113.html>.<sup>NIH</sup>

### **Ruth L. Kirschstein National Research Service Awards—Individual Predoctoral Fellows**

NINDS encourages applications for Ruth L. Kirschstein National Research Service Awards for Individual Predoctoral Fellows. This announcement is made together with 8 other NIH components.

The predoctoral fellowship supports promising doctoral candidates who will be performing dissertation research and training in scientific health-related fields. The award provides up to five years of support for research training which leads to the PhD or equivalent research degree, the combined MD/PhD degree, or another formally combined professional degree and research doctoral degree in the biomedical, behavioral, or clinical sciences. The overall purpose is to help ensure that diverse pools of highly trained scientists will be available in adequate numbers to address the Nation's research needs.

Potential applicants should contact Dr. Stephen Korn, director, Training and Career Development, NINDS; telephone: 301-496-4188; email: [korns@ninds.nih.gov](mailto:korns@ninds.nih.gov). For more information visit <http://grants.nih.gov/grants/guide/pa-files/PA-11-111.html>.<sup>NIH</sup>

### **Ruth L. Kirschstein National Research Service Awards—Individual Predoctoral MD-PhD Fellows**

NINDS encourages applications for Ruth L. Kirschstein National Research Service Awards for Individual Predoctoral Fellows in MD/PhD programs.

The predoctoral fellowship supports promising doctoral candidates who are enrolled in a combined MD-PhD program and will be performing dissertation research and receiving training in scientific health-related fields relevant to the NINDS mission. The award provides up to five years of support for research training which leads to the PhD or equivalent research degree.

Potential applicants should contact Dr. Stephen Korn, director, Training and Career Development, NINDS; telephone: 301-496-4188; email: [korns@ninds.nih.gov](mailto:korns@ninds.nih.gov). For more information visit <http://grants.nih.gov/grants/guide/pa-files/PA-11-127.html>.<sup>NIH</sup>

### **Ruth L. Kirschstein National Research Service Awards Individual Predoctoral Fellowships to Promote Diversity**

NINDS encourages applications for Ruth L. Kirschstein National Research Service Awards for Individual Predoctoral Fellows to promote diversity in health-related research. This announcement is made together with 19 other NIH components.

The purpose of this fellowship is to improve the diversity of the research workforce by supporting the training of predoctoral students from groups that are underrepresented in the research community. This fellowship provides up to five years of support for research training leading to the PhD or equivalent research degree, the combined MD/PhD degree (up to six years of support), or another formally combined professional degree and research doctoral degree in biomedical, behavioral, health services, or clinical sciences. The overall goal is to increase the number of scientists pursuing careers in biomedical, behavioral, social, clinical, or health services research.

Potential applicants should contact Dr. Michelle Jones-London, program director, Office of Minority Health and Research, NINDS; telephone: 301-451-7966; email: [jonesmiche@ninds.nih.gov](mailto:jonesmiche@ninds.nih.gov). For more information visit <http://grants.nih.gov/grants/guide/pa-files/PA-11-112.html>.<sup>MM</sup>

### **Ruth L. Kirschstein National Research Service Awards—Individual Senior Fellows**

NINDS invites applications for Ruth L. Kirschstein National Research Service Awards for Individual Senior Fellows. This announcement is made together with 10 other NIH components.

The Senior Fellowship award supports experienced scientists who wish to make major changes in their research careers or who wish to broaden their scientific backgrounds by acquiring new research capabilities as independent investigators in scientific health-related fields. These awards enable individuals with at least seven years of research experience beyond the doctorate, and who have progressed to the stage of independent investigator, to take time from regular professional responsibilities to receive training to increase their scientific capabilities. In most cases, this award is used to support sabbatical experiences for established independent scientists seeking support for retraining or additional career development.

Potential applicants should contact Dr. Stephen Korn, director, Training and Career Development, NINDS; telephone: 301-496-4188; email: [korns@ninds.nih.gov](mailto:korns@ninds.nih.gov). For more information visit <http://grants.nih.gov/grants/guide/pa-files/PA-11-114.html>.<sup>MM</sup>

### **Small Business Innovation Research**

NIH encourages grant applications for small business innovation research (SBIR). This announcement is made together with the CDC, FDA, and ACF.

The purpose of this initiative is to: stimulate technological innovation in the private sector; strengthen the role of small business in meeting Federal research and development needs; increase the commercial application of Federally-supported research results; support and encourage participation of socially and economically disadvantaged small businesses in the SBIR program; and improve the return on investment from Federally-funded research for economic and social benefits to the Nation.

Potential applicants should contact Stephanie Fertig, research project manager, Office of Translational Research, NINDS, at 301-496-1779 or [fertigs@ninds.nih.gov](mailto:fertigs@ninds.nih.gov). For more information visit <http://grants.nih.gov/grants/guide/pa-files/PA-11-096.html>.<sup>MM</sup>

### **Small Business Technology Transfer**

NINDS invites grant applications for the small business technology transfer (STTR) program. This announcement is made together with 22 other NIH components.

The STTR program stimulates a partnership of ideas and technologies between innovative small businesses and nonprofit research institutions through Federally-funded research and development. The program assists the small business and research communities by commercializing innovative technologies.

Potential applicants should contact Stephanie Fertig, research project manager, Office of Translational Research, NINDS, at 301-496-1779 or [fertigs@ninds.nih.gov](mailto:fertigs@ninds.nih.gov). For more information visit <http://grants.nih.gov/grants/guide/pa-files/PA-11-097.html>.<sup>MM</sup>

### Udall Centers of Excellence for Parkinson's Disease Research

NINDS invites new and renewal applications for the Morris K. Udall Centers of Excellence for Parkinson's Disease Research program.

Parkinson's disease (PD) is a chronic, progressive movement disorder that affects the lives of at least one million people in the United States. Although significant research advances have been made, a clear cause and definitive cure for PD remain elusive. The NINDS Centers of Excellence for Parkinson's Disease program was developed in honor of former Congressman Morris K. Udall of Utah. Udall Centers use a multidisciplinary research approach to explore the fundamental causes of PD as well as to improve the diagnosis and treatment of people with PD and related neurodegenerative disorders. While basic research serves as the foundation of discovery for the Udall Centers, this announcement encourages applications that translate basic and clinical research into improved treatments to slow disease progression and to identify cures.

Letters of Intent Due April 10, 2011

Applications Due May 10, 2011

Potential applicants should contact Dr. Beth-Anne Sieber, program director, Neurodegeneration Cluster, NINDS; telephone: 301-496-5680; email: [sieberb@ninds.nih.gov](mailto:sieberb@ninds.nih.gov). For more information visit <http://grants.nih.gov/grants/guide/rfa-files/RFA-NS-11-004.html>.<sup>NIH</sup>

## Volunteers Needed

### Persons with Seizures or Epilepsy Sought for Studies

NINDS is seeking persons with seizures or epilepsy to participate in a research study (study number 01-N-0139). This study has three purposes: 1) to screen patients with seizures for participation in other research studies of NINDS's Clinical Epilepsy Section (CES), 2) to follow the natural course of seizure disorders, and 3) to train CES fellows in evaluating and treating epilepsy. This study includes history and physical examinations as well as tests which may include an electroencephalogram (EEG), a magnetic resonance imaging (MRI) scan of the brain, blood tests, and a positron emission tomography (PET). There may be other tests or procedures during the study.

Volunteers must be at least 2 years of age and have seizures that occur frequently. Pregnant women and volunteers under the age of 2 are excluded. The study will take place at the NIH Clinical Center in Bethesda, MD, and requires an initial 3-hour outpatient screening visit to NIH. If eligible, an inpatient visit of up to 2 weeks may be required to start, taper, stop, and evaluate the effects of antiepileptic medications as well as perform tests such as video EEG monitoring. After evaluation is complete, eligibility for other protocols within the CES will be determined. There is no cost for participation or for any of the tests associated with the research study.

For more information, contact Pat Reeves-Tyer at 301-496-1923 or Irene Dustin at 301-451-9284. Please refer to study number 01-N-0139.<sup>NIH</sup>