



TSC ALERT

Edited by Vicky H. Whittemore, PhD

January 2006

Welcome to the January 2006 edition of *TSC Alert* – an online research newsletter for individuals interested in Tuberous Sclerosis Complex (TSC) research and clinical care. This online newsletter contains information of interest to the TSC research and health care community. Please forward this newsletter to colleagues who are interested in TSC. To be added/deleted to/from the mailing list for *TSC Alert* and/or to submit information for the February 2006 *TSC Alert* contact: vwhittemore@tsalliance.org

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IMPORTANT ANNOUNCEMENTS



**Manuel R. Gomez, M.D.
July 4, 1928 – January 21, 2006**

Dr. Manuel R. Gomez, 77, a retired Mayo Clinic physician known as the “father of tuberous sclerosis,” died Saturday, Jan. 21, following a lengthy illness. The funeral was held at St. John the Evangelist Catholic Church in Rochester, with the Rev. Msgr. Gerald Mahon officiating. Burial was in Calvary Cemetery.

Born July 4, 1928, in Minaya, Spain, he received his undergraduate education in Spain. He earned his medical degree from the Universidad de la Habana in Havana, Cuba, in 1952. He did an internship and pediatric residency at the Michael Reese Hospital in Chicago, followed by a neurology residency at the University of Michigan and a pediatric neurology residency at the University of Chicago. He subsequently did post-graduate work at the University of Michigan and the University of London and joined the Mayo Clinic in 1964. On Sept. 25, 1954, he married Joan A. Stormer in Pennsylvania. He was a founding member of the Child Neurology Society and the International Child Neurology Association and was recognized as an international authority on a variety of pediatric neurological disorders, especially tuberous sclerosis. The Tuberous Sclerosis Alliance established a research award in his honor, and the Child Neurology Society conferred on him its highest honor, the Hower Award. He also authored over 170 scientific papers and edited three editions of the book, *Tuberous Sclerosis Complex*.

Survivors include his wife; four sons, Dr. Christopher (Jackie) of Chicago, Gregory (Kim) of Newtonville, Mass., Douglas (Kirsten) of Bend, Ore., and Dr. Timothy (Denise) of Madison, Wis.; seven grandchildren; two brothers, Dr. Jaime Rodriguez of Madrid, Spain, and Rafael Rodriguez of Los Angeles; and two sisters, Isabelina Cros of Coral Gables, Fla., and Cristina Staish of La Due, Mo. A brother preceded him in death.

The family prefers memorials to the Tuberous Sclerosis Alliance, 801 Roeder Rd., Suite 750, Silver Springs, MD 20910-4467.

UPCOMING TSC CONFERENCES:

TS ALLIANCE AND PKD FOUNDATION TO PRESENT SPECIAL WORKSHOP FOR RESEARCHERS AND CLINICIANS. The two organizations are co-sponsoring "Polycystic Kidney Disease and Tuberous Sclerosis Complex: Building Bridges to the Future," March 9-10, 2006 in Chicago, IL. For more information and to register, click [here](#).

HAMARTOMA SYNDROMES AND INSULIN SIGNALING

This conference will be held May 11- 12, 2006 in Lister Hall, National Institutes of Health, Bethesda, MD. Organized and sponsored by the National Institute of Diabetes and Digestive and Kidney Disease and the National Cancer Institute, National Institutes of Health
More information coming soon!

FUNDING OPPORTUNITIES

UNDERSTANDING AND TREATING TUBEROUS SCLEROSIS COMPLEX

Participating Organizations

National Institutes of Health (NIH), (<http://www.nih.gov/>)

Tuberous Sclerosis Alliance (TS Alliance), (<http://www.tsalliance.org>)

Components of Participating Organizations

National Institute of Neurological Disorders and Stroke (NINDS), (<http://www.ninds.nih.gov>)

National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK), (<http://www.niddk.nih.gov/>)

National Institute of Mental Health (NIMH), (<http://www.nimh.nih.gov>)

National Institute of Arthritis and Musculoskeletal and Skin Diseases (NIAMS), (<http://www.niams.nih.gov>)

National Cancer Institute (NCI), (<http://www.nci.nih.gov>)

Letters of Intent Receipt Date(s): Not Applicable

Application Receipt Dates(s): Standard dates apply, please see <http://grants.nih.gov/grants/funding/submissionschedule.htm> for details

Peer Review Date(s): Standard dates apply, please see <http://grants.nih.gov/grants/funding/submissionschedule.htm> for details

Council Review Date(s): Standard dates apply, please see <http://grants.nih.gov/grants/funding/submissionschedule.htm> for details

Earliest Anticipated Start Date: April 2006

Additional Information To Be Available Date (Url Activation Date): Not Applicable

Expiration Date: March 2, 2008

THE LAM FOUNDATION offers research funding for the study of the cellular and molecular basis of Lymphangiomyomatosis (LAM). The three-year LAM Post Doctoral Fellowship Awards and Established Investigator Awards provide a maximum of \$150,000. Pilot project awards of up to \$25,000 are also available for the initiation of innovative research projects. Fellowship candidates must have at least two years of experience, a PhD, MD, or equivalent degree, and perform the work in a laboratory with established expertise in smooth muscle biology, genetics of tuberous sclerosis or other LAM-related areas. Established investigators must have a substantial track record in research. Mechanistic, hypothesis driven approaches of all types are welcomed. Formalin-fixed LAM tissues, dispersed LAM lung cells, genetic probes and other reagents are available. The spring application deadline is March 15th. Applicants will be notified by May 30th. Funding begins June 15. The fall deadline is September 15th. Applicants will be notified by December 30th. Funding begins January 15th of the following year. Application and guidelines are available for downloading on our website. For your convenience, you will find the terms and application form under [Funding for Scientists](#). For additional information, please contact The LAM Foundation at 10105 Beacon Hills Drive, Cincinnati, Ohio, 45241-1335 or email lam@one.net

ALLIANCE FOR CANCER GENE THERAPY Alliance for Cancer Gene Therapy (ACGT) funds research aimed at furthering the development of gene therapy approaches to the treatment of cancer. To this end, ACGT offers several categories of awards to qualified scientists who are working in the field of cancer gene therapy:

[YOUNG INVESTIGATORS AWARD](#) ▼

(with six main areas of research)

[INVESTIGATORS AWARD IN THE CLINICAL TRANSLATION OF GENE THERAPY FOR LUNG CANCER](#) ▼

[INVESTIGATORS AWARD IN THE CLINICAL TRANSLATION OF ANTI-ANGIOGENIC GENE THERAPY FOR CANCER](#) ▼

JAMES S. McDONNELL FOUNDATION: 21st CENTURY SCIENCE INITIATIVE - 2006

Research Award Application Deadline: 5:59 PM CST on Monday March 13, 2006

The James S. McDonnell Foundation (JSMF) announces updated program descriptions and application guidelines for its 21st Century Science Initiative Research Awards. The 21st Century Research Awards support investigator-initiated research. Funding is available for research projects in Brain Cancer; Bridging Brain, Mind, and Behavior; and Studying Complex Systems. Program information, application guidelines, and proposal preparation instructions are available at: <http://www.jsmf.org> No geographic restrictions; international applications are encouraged. Information on the Foundation's 21st Century Collaborative Activity Awards is also available on the website.

EPILEPSY FOUNDATION FUNDING OPPORTUNITIES

The Epilepsy Foundation invites applications for its Behavioral Sciences Postdoctoral Fellowships (\$40,000), Behavioral Sciences Student Fellowships (\$3,000), and Health Sciences Student Fellowships (\$3,000). The deadline for submission of applications is March 1. Funding of projects is to commence July 1, 2006. Guidelines, including applications and deadlines, are available at www.epilepsyfoundation.org/grants

RESEARCH ON AUTISM AND AUTISM SPECTRUM DISORDERS (PA-04-085)

National Institute of Mental Health (NIMH), (<http://www.nimh.nih.gov>)

National Institute on Deafness and Other Communication Disorders (NIDCD) (<http://www.nidcd.nih.gov>)

National Institute of Child Health and Human Development (NICHD) (<http://www.nichd.nih.gov>)

National Institute of Neurological Disorders and Stroke (NINDS), (<http://www.ninds.nih.gov>)

National Institute of Environmental Health Sciences (NIEHS) (<http://www.niehs.nih.gov>)

National Institute of Nursing Research (NINR) (<http://www.nih.gov/ninr>)

The purpose of this Program Announcement is to encourage grant applications for the support of research designed to elucidate the diagnosis, epidemiology, etiology, genetics, treatment, and optimal means of service delivery in relation to Autistic Disorder ("autism") and autism spectrum disorders (Rett's Disorder, Childhood Disintegrative Disorder, Asperger's Disorder, Pervasive Developmental Disorder-Not otherwise specified, or "Atypical Autism").

This PA is meant to support the broad research goals of the Autism Research Matrix:

(<http://www.nimh.nih.gov/atuismiaxx/researchmatrix.pdf>).

For the complete Program Announcement: <http://grants1.nih.gov/grants/guide/pa-files/PA-04-085.html>

RESEARCH ON PSYCHOPATHOLOGY IN INTELLECTUAL DISABILITIES (MENTAL RETARDATION) (PA-01-028)

National Institute of Mental Health (NIMH), (<http://www.nimh.nih.gov>)

NIMH invites research grant applications for research designed to elucidate the epidemiology, etiology, treatment, and prevention of mental disorders, including emotional and behavioral problems, in persons of any age with intellectual disabilities (mental retardation). This announcement uses the term "intellectual disabilities" to designate conditions that in the past have been referred to with the term "mental retardation", thus these two terms are to be understood as equivalent. For the complete Program Announcement:

<http://grants2.nih.gov/grants/guide/pa-files/PA-04-044.html>

AUTISM CENTERS OF EXCELLENCE (R01) (RFA-HD-06-004)

National Institute of Child Health and Human Development
National Institute on Deafness and Other Communication Disorders
National Institute of Environmental Health Sciences
National Institute of Mental Health
National Institute of Neurological Disorders and Stroke

Application Receipt Date(s): August 11, 2006

<http://grants.nih.gov/grants/guide/rfa-files/RFA-HD-06-004.html>

AUTISM CENTERS OF EXCELLENCE (P50) (RFA-HD-06-016)

National Institute of Child Health and Human Development
National Institute on Deafness and Other Communication Disorders
National Institute of Environmental Health Sciences
National Institute of Mental Health
National Institute of Neurological Disorders and Stroke

Application Receipt Date(s): August 11, 2006

<http://grants.nih.gov/grants/guide/rfa-files/RFA-HD-06-016.html>

DIRECTED STEM CELL DIFFERENTIATION FOR CELL BASED THERAPIES FOR HEART, LUNG, BLOOD, AND AGING DISEASES (SBIR [R43/R44]) (PA-06-124)

National Heart, Lung, and Blood Institute
National Institute on Aging

Application Receipt Date(s): Multiple dates, see announcement.

<http://grants.nih.gov/grants/guide/pa-files/PA-06-124.html>

DIRECTED STEM CELL DIFFERENTIATION FOR CELL BASED THERAPIES FOR HEART, LUNG, BLOOD, AND AGING DISEASES (STTR [R41/R42]) (PA-06-125)

National Heart, Lung, and Blood Institute
National Institute on Aging

Application Receipt Date(s): Multiple dates, see announcement.

<http://grants.nih.gov/grants/guide/pa-files/PA-06-125.html>

PREAPPLICATION FOR INTERDISCIPLINARY RESEARCH CONSORTIUM (X02) (PAR-06-122)

NIH Roadmap Initiatives

Application Receipt Date(s): April 18, 2006

<http://grants.nih.gov/grants/guide/pa-files/PAR-06-122.html>

INTERDISCIPLINARY RESEARCH CONSORTIUM (U54)

(RFA-RM-06-008)

NIH Roadmap Initiatives

Application Receipt Date(s): December 19, 2006

<http://grants.nih.gov/grants/guide/rfa-files/RFA-RM-06-008.html>

PHS 2006-02 OMNIBUS SOLICITATION OF THE NIH, CDC, AND FDA FOR SMALL BUSINESS INNOVATION RESEARCH GRANT APPLICATIONS (Parent SBIR [R43/R44])(PA-06-120)

National Institutes of Health

Centers for Disease Control and Prevention
Food and Drug Administration
National Center for Birth Defects and Developmental Disabilities
National Center for Complementary and Alternative Medicine
National Center for Chronic Disease Prevention and Health Promotion
National Center for Environmental Health
National Cancer Institute
National Center for Injury Prevention and Control
National Center for Minority Health and Health Disparities
National Center for Research Resources
National Eye Institute
National Human Genome Research Institute
National Heart, Lung, and Blood Institute
National Institute on Aging
National Institute of Allergy and Infectious Diseases
National Institute of Arthritis and Musculoskeletal and Skin Diseases
National Institute of Biomedical Imaging and Engineering
National Institute of Child Health and Human Development
National Institute on Drug Abuse
National Institute on Deafness and Other Communication Disorders
National Institute of Diabetes and Digestive and Kidney Diseases
National Institute of Environmental Health Sciences
National Institute of General Medical Sciences
National Institute of Mental Health
National Institute of Neurological Disorders and Stroke
National Institute of Nursing Research
National Institute for Occupational Safety and Health
National Library of Medicine
Application Receipt Date(s): Multiple Receipt Dates - See Announcement
<http://grants.nih.gov/grants/guide/pa-files/PA-06-120.html>

**PHS 2006-2 OMNIBUS SOLICITATION OF THE NIH FOR SMALL BUSINESS TECHNOLOGY TRANSFER
GRANT APPLICATIONS (Parent STTR [R41/R42])(PA-06-121)**

National Institutes of Health
National Center for Complementary and Alternative Medicine
National Cancer Institute
National Center for Minority Health and Health Disparities
National Center for Research Resources
National Eye Institute
National Human Genome Research Institute
National Heart, Lung, and Blood Institute
National Institute on Aging
National Institute on Alcohol Abuse and Alcoholism
National Institute of Allergy and Infectious Diseases
National Institute of Arthritis and Musculoskeletal and Skin Diseases
National Institute of Biomedical Imaging and Engineering
National Institute of Child Health and Human Development
National Institute on Drug Abuse
National Institute on Deafness and Other Communication Disorders
National Institute of Dental and Craniofacial Research
National Institute of Diabetes and Digestive and Kidney Diseases
National Institute of Environmental Health Sciences
National Institute of General Medical Sciences
National Institute of Mental Health
National Institute of Neurological Disorders and Stroke
National Institute of Nursing Research
National Library of Medicine

Application Receipt Date(s): Multiple Dates - See Announcement
<http://grants.nih.gov/grants/guide/pa-files/PA-06-121.html>

NEW TECHNOLOGY FOR PROTEOMICS AND GLYCOMICS (SBIR [R43/R44]) (PA-06-128)

National Center for Research Resources
National Heart, Lung, and Blood Institute
National Institute of General Medical Sciences
National Institute of Neurological Disorders and Stroke Application Receipt Date(s): Multiple dates, see announcement.
<http://grants.nih.gov/grants/guide/pa-files/PA-06-128.html>

NEW TECHNOLOGY FOR PROTEOMICS AND GLYCOMICS (STTR [R41/R42]) (PA-06-129)

National Center for Research Resources
National Heart, Lung, and Blood Institute
National Institute of General Medical Sciences
National Institute of Neurological Disorders and Stroke Application Receipt Date(s): Multiple dates, see announcement.
<http://grants.nih.gov/grants/guide/pa-files/PA-06-129.html>

NIH PATHWAY TO INDEPENDENCE (PI) AWARD (K99/R00) (PA-06-133)

National Institutes of Health
Application Receipt Date(s): Multiple dates, see announcement.
<http://grants.nih.gov/grants/guide/pa-files/PA-06-133.html>

NEW TSC PUBLICATIONS

Altomare DA, Testa JR (2005) Perturbations of the AKT signaling pathway in human cancer. *Oncogene* 24(50):7455-64

Astrinidis A, Henske EP (2005) Tuberous sclerosis complex: linking growth and energy signaling pathways with human disease. *Oncogene* 24(50):7475-81

Astrinidis A, Senapedis W, Henske EP (2006) Hamartin, the tuberous sclerosis complex 1 gene product, interacts with polo-like kinase 1 in a phosphorylation-dependent manner. *Hum Mol Genet* 15(2):287-297; Epub 2005 Dec 8

Banos Madris R, Garre Sanchez MC, Moran Sanchez S (2005) [Patient with tuberous sclerosis and giant renal angiomyolipomas.] *An Med Interna* 22(10):500-1 [Article in Spanish]

Benatiya AI, Bouayed MA, Touiza E, Daoudi K, Mernissi FZ, Tahri H (2005) [Bourneville's tuberous sclerosis. A case report.] *J Fr Ophtalmol* 28(10):e11 [Article in French]

Brown AB, Mahmood U, Cortes ML, Tang Y, Dai G, Stemmer-Rachamimov A, Prabhakar S, Leishear K, Onda H, Kwiatkowski D, Weissleder R, Breakefield X (2005) Magnetic resonance imaging and characterization of spontaneous lesions in a transgenic mouse model of tuberous sclerosis as a model for endothelial cell-based transgene delivery. *Hum Gene Ther* 16(12):1367-76

Cigarroa Lopez JA, Garcia Jimenez Y, Yanez Gutierrez L, Jimenez Arteaga S, Martinez Sanchez A, Ortegon Cardena J, Gomez FD, Sanchez Soberanes A, Lopez Gallegos D, Riera-Kinkel C, Alva Espinosa C (2005) Cardiac rhabdomyoma surgically treated with success. Review of literature.] *Arch Cardiol Mex* 75 Suppl 3:S3-113-7 [Article in Spanish]

Coffey VG, Zhong Z, Shield A, Canny BJ, Chibalin AV, Zierath JR, Hawley JA (2006) Early signaling responses to divergent exercise stimuli in skeletal muscle from well-trained humans. *FASEB J* (1):190-2; Epub 2005 Nov 2

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- Goncharova EA, Goncharov DA, Spaitis M, Noonan DJ, Talovskaya EV, Eszterhas A, Krymskaya VP (2006) Abnormal Smooth Muscle Cell Growth in Lymphangioliomyomatosis (LAM): Role for Tumor Suppressor TSC2. *Am J Respir Cell Mol Biol* 2006 Jan 19 [Epub ahead of print]
- Grunfeld JP (2005) Congenital/inherited kidney diseases: how to identify them early and how to manage them. *Clin Exp Nephrol* 9(3):192-4
- Hadley DA, Bryant LJ, Ruckle HC (2006) Conservative treatment of renal angiomyolipomas in patients with tuberous sclerosis. *Clin Nephrol* 65(1):22-7
- Hebert CA, Norris K, Parashar P, Ord RA, Nikitakis NG, Sauk JJ (2006) Hypoxia-inducible factor-1alpha polymorphisms and TSC1/2 mutations are complementary in head and neck cancers. *Mol Cancer* 5(1):3 [Epub ahead of print] <http://www.molecular-cancer.com/content/5/1/3>
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- Hou M, Wang MJ, Zhong N (2006) Principal genetic syndromes and autism: from phenotypes, proteins to genes. *Beijing Da Xue Xue Bao* 38(1):110-5
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CONFERENCES

Feb. 16, 2006

Boston LAM/TSC Seminar Series

Harvard Medical School

Tuberous Sclerosis and the Brain: Part 2

Frances Jensen, M.D. & Vijaya Ramesh, Ph.D.

For more information: <http://www.bostonlamtscresearch.org>

March 9-10, 2005

PKD/TSC Research Workshop

Chicago, IL

More information, go to http://www.pkdcure.org/site/PageServer?pagename=pkdfnews_tsc

March 9 – 11, 2006

American Society for Experimental Neurotherapeutics: Eighth Annual Meeting

Omni Shoreham Hotel, Washington, DC

Abstract deadline: January 6, 2006

For more information: ASENT Executive Office at 414-273-8290 or e-mail: info@asent.org

March 31 – April 2, 2006

LAM Foundation 2006 Research Conference

Hilton Netherlands Cincinnati Hotel

Cincinnati, OH

<http://lam.uc.edu>

CANCELLED! May 3-5, 2006

TSC International Research Conference 2006

Berlin, Germany

Due to financial concerns, this conference has been cancelled!

May 10-14, 2006

1st East Mediterranean Epilepsy Congress

Sharm El Sheikh, Egypt

www.epilepsysharm2006.com

SAVE THE DATE! May 11-12, 2006

Hamartoma Syndromes and Insulin Signaling

Lister Hall, National Institutes of Health, Bethesda, MD

May 20-25, 2006

American Psychiatric Association: From Science to Public Policy

Toronto, Canada

www.psych.org

June 15-17, 2006

American Epilepsy Society Mid-Year Meeting

Oak Brook, IL

www.aesnet.org

July 2-6, 2006

7th European Congress of Epileptology

Helsinki Fair Centre, Helsinki, Finland

<http://www.epilepsyhelsinki2006.org>

July 8-12, 2006

UICC World Cancer Congress 2006

Washington Convention Center, Washington, DC

<http://www.2006conferences.org/u-program.php>

Submit abstracts to UICC 2006 through the official conference website at

http://2006.confex.com/2006/uicc/index_UICC.epl

All abstracts must be submitted electronically.

For more information about abstract submission, please see

<http://www.2006conferences.org/u-abstracts.php>

SAVE THE DATE! July 14-16, 2006

National TSC Conference

Organized by the Tuberous Sclerosis Alliance

[Indian Lakes Resort](http://www.indianlakesresort.com)

Chicago, Illinois

<http://www.tsalliance.org>

July 27-30, 2006

6th Asian & Oceanian Epilepsy Congress

Kuala Lumpur Convention Centre

Kuala Lumpur, Malaysia

www.epilepsykualalumpur2006.org

August 2-4, 2006

10th European Conference on Epilepsy & Society

Copenhagen, Denmark

For more information: <http://www.epilepsyandsociety.org>

August 6-10, 2006

11th International Congress of Human Genetics

Brisbane, Australia

<http://www.ichg2006.com>

September 6-9, 2006

4th Latin American Congress on Epilepsy 2006

Guatemala City, Guatemala

<http://www.epilepsyguatemala2006.org>

September 10-14, 2006

XXVIIIth International Congress of Clinical Neurophysiology

Edinburgh, UK

www.iccn2006.com

October 6-11, 2006

Plastic Surgery 2006

San Francisco, CA

www.plasticsurgery.org/annual_meeting

October 30 – November 2, 2006

World Congress on Autism

Cape Town, South Africa

Call for Papers closes 30th September 2005

Early Bird Registration Closes June 30th 2006

Please visit www.autismcongress.com

March 2007

NINDS Epilepsy Conference

Follow-up to 2000 Conference "Curing Epilepsy: Focus on the Future"

<http://www.ninds.nih.gov>

July 8-12, 2007

27th International Epilepsy Congress

Suntec Singapore International Convention and Exhibition Center

Singapore

For more information: www.epilepsycongress.org

NEWS

NOBELIST DISCOVERS ANTIDEPRESSANT PROTEIN IN MOUSE BRAIN

<http://www.nimh.nih.gov/press/depressionprotein.cfm>

INITIAL RESULTS HELP CLINICIANS IDENTIFY PATIENTS WITH TREATMENT-RESISTANT DEPRESSION

<http://www.nimh.nih.gov/press/stard.cfm>

DEPRESSION AND ANXIETY IMPROVE AFTER EPILEPSY SURGERY Depression and anxiety are common problems for people whose epilepsy cannot be controlled by medication. A new study found that depression and anxiety improve significantly after epilepsy surgery.

The study, which is published in the December 13, 2005, issue of *Neurology*, the scientific journal of the American Academy of Neurology, found that the rate of depression and anxiety disorders decreased by more than 50 percent up to two years after the surgery. People who no longer experienced any seizures after surgery were even more likely to be free of depression and anxiety.

"These results are important because depression and anxiety can significantly affect the quality of life," said study author Orrin Devinsky, MD, a Fellow of the American Academy of Neurology with the New York University School of Medicine. "For people with refractory epilepsy, studies show that depression is more likely to affect their quality of life than how often they have seizures or how many drugs they have to take."

The study involved 360 people in seven U.S. epilepsy centers who were undergoing epilepsy surgery to remove the area of the brain producing the seizures. Epilepsy surgery is generally reserved for those whose seizures cannot be adequately controlled by medication. The majority of participants had surgery on the brain's temporal lobe. The

participants' mental health and any symptoms of depression and anxiety were evaluated before surgery and at three months, one year, and two years after surgery.

Prior to the surgery, 22 percent of the participants met the criteria for a diagnosis of depression, compared to 9 percent two years after the surgery. For anxiety disorders, 18 percent met the criteria for a diagnosis before the surgery, compared to 10 percent two years after the surgery.

Of those who had no seizures following surgery, 8 percent met the criteria for depression, compared to 18 percent of those who still had some seizures after surgery. For anxiety, 8 percent of those who were seizure free had depression, compared to 15 percent of those with ongoing seizures.

Researchers aren't sure why depression and anxiety improve after epilepsy surgery. "Removing dysfunctional areas of the brain may be critical," Devinsky said. "Whether the benefit comes from reducing or eliminating seizures or other effects is not clear. People may also be benefiting from an improved sense of self-control, less fear of seizures, higher activity levels and a lessened burden from medications."

This article was issued as a press release by The American Academy of Neurology, an association of nearly 19,000 neurologists and neuroscience professionals, is dedicated to improving patient care through education and research. A neurologist is a doctor with specialized training in diagnosing, treating and managing disorders of the brain and nervous system such as Alzheimer's disease, multiple sclerosis, restless legs syndrome, narcolepsy, and stroke. For more information about the American Academy of Neurology, visit www.aan.com

The NIH Office of Extramural Research recently launched an e-newsletter, the "NIH Extramural Nexus," designed to provide regular updates on NIH policies and activities. For a sample copy, see <http://grants1.nih.gov/grants/nexus.htm> To subscribe, send a plain text e-mail to Listserv@list.nih.gov including only the words Subscribe EXTRAMURALNEXUS in the body of the message.

Other NIH websites of interest:

- NIH News in Health is a monthly newsletter bringing you practical health news and tips based on recent research. It is fully reproducible and available online (and in hard copy format) at <http://newsinhealth.nih.gov>
- The NIH Roadmap website is <http://nihroadmap.nih.gov>
- Dr. Zerhouni's website is <http://www.nih.gov/about/director/index.htm>
- The Neuroscience Blueprint website is <http://neuroscienceblueprint.nih.gov>
- The Medlineplus website is <http://medlineplus.gov>
- Clinical trial information is <http://clinicaltrials.gov>

EMPLOYMENT OPPORTUNITIES

Scientific Director, The Rothberg Institute The Scientific Director will be responsible for providing oversight to The Rothberg Institute's Drug Development Program. **Interested individuals can view the job description at:** <http://www.childhooddiseases.org>

Director, Coordinating Center for Health Promotion (CoCHP) AD-601/602 –00 Department of Health and Human Services (HHS), Centers for Disease Control and Prevention (CDC), Coordinating Center for Health Promotion (CoCHP), Atlanta, GA **Applicants may visit the CDC Home Page at** <http://www.cdc.gov>

TSC INFORMATION

For information about TSC, visit the TS Alliance Web site at: <http://www.tsalliance.org> or contact the TS Alliance at info@tsalliance.org or by telephone: 1-800-225-6872 or 301-562-9890.