



TSC ALERT

January 2007

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SAVE THE DATE

March 29-30, 2007

Curing Epilepsy 2007: Translating Discoveries into Therapies

Natcher Conference Center, National Institutes of Health
Bethesda, MD

Information and registration at: <http://curingepilepsy.ninds.nih.gov/>

May 24-26, 2007

Tuberous Sclerosis International Research Conference in Rome (Italy)

Organized by the Italian Tuberous Sclerosis Association
Convenor: Paolo Curatolo

Venue: Grand Hotel Palazzo Carpegna, Rome, Italy

Deadline for Submission of Abstracts: January 31, 2007

Information for registration and hotel accommodation: www.ptsroma.it/tsc2007

September 23-25, 2007

Tuberous Sclerosis Complex: From Genes to New Therapeutics

International TSC Conference organized by the Tuberous Sclerosis Alliance
Loews Annapolis Hotel, Annapolis, MD

Deadline for Submission of Abstracts: July 1, 2007

Information, Abstract Submission Forms, Registration Forms at: www.tsalliance.org

September 11-14, 2008

International TSC Conference

Organized by the Tuberous Sclerosis Association, U.K.
Brighton, U.K.

More information coming soon!

REQUEST FOR INFORMATION

Request for Information (RFI): Tools and Resources for Human Embryonic Stem Cell Research in the Nervous System (Neuroscience Blueprint) (NOT-DC-06-004)

National Institute on Deafness and Other Communication Disorders

National Center for Complementary and Alternative Medicine

National Center for Research Resources

National Eye Institute

National Institute on Aging

National Institute on Alcohol Abuse and Alcoholism

National Institute of Biomedical Imaging and Engineering

National Institute of Child Health and Human Development

National Institute on Drug Abuse

National Institute of Dental and Craniofacial Research

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

Office of Behavioral and Social Science Research

<http://grants.nih.gov/grants/guide/notice-files/NOT-DC-06-004.html>

FUNDING OPPORTUNITIES

Understanding and Treating Tuberous Sclerosis Complex (R01) (PAS-07-190)

National Institute of Neurological Disorders and Stroke

National Cancer Institute

National Institute of Arthritis and Musculoskeletal and Skin Diseases

National Institute of Diabetes and Digestive and Kidney Diseases

National Institute of Mental Health

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

<http://grants.nih.gov/grants/guide/pa-files/PAS-07-190.html>

Ruth L. Kirschstein National Research Service Awards for Individual Predoctoral Fellowships (F31) to Promote Diversity in Health-Related Research (PA-07-106)

National Cancer Institute

National Center for Complementary and Alternative Medicine

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 Mental Health
National Institute of Neurological Disorders and Stroke
National Institute of Nursing Research
Office of Dietary Supplements
Application Receipt/Submission Date(s): Multiple dates, see announcement.
<http://grants.nih.gov/grants/guide/pa-files/PA-07-106.html>

Ruth L. Kirschstein National Research Service Awards (NRSA) for Individual Postdoctoral Fellows (F32) (PA-07-107)

National Institute on Aging
National Cancer Institute
National Center for Research Resources
National Eye Institute
National Human Genome Research Institute
National Heart, Lung, and Blood Institute
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
Office of Dietary Supplements
Application Receipt/Submission Date(s): Multiple dates, see announcement.
<http://grants.nih.gov/grants/guide/pa-files/PA-07-107.html>

Integrating Lung Genetics and Genomics in Human Populations (R01) (PA-07-135)

National Heart, Lung, and Blood Institute
Application Receipt/Submission Date(s): Multiple dates, see announcement.
<http://grants.nih.gov/grants/guide/pa-files/PA-07-135.html>

Protein Interactions Governing Membrane Transport in Pulmonary Health and Disease (R01) (PA-07-137)

National Heart, Lung, and Blood Institute
Application Receipt/Submission Date(s): Multiple dates, see announcement.
<http://grants.nih.gov/grants/guide/pa-files/PA-07-137.html>

Research on Sleep and Sleep Disorders (R01) (PA-07-140)

National Heart, Lung, and Blood Institute
National Center for Complementary and Alternative Medicine
National Cancer Institute
National Center on Sleep Disorders Research
National Institute on Aging
National Institute on Alcohol Abuse and Alcoholism
National Institute of Arthritis and Musculoskeletal and Skin Diseases
National Institute of Child Health and Human Development
National Institute on Drug Abuse
National Institute of Mental Health
National Institute of Neurological Disorders and Stroke

National Institute of Nursing Research
Office of Research on Women's Health
Application Receipt/Submission Date(s): Multiple dates, see announcement.
<http://grants.nih.gov/grants/guide/pa-files/PA-07-140.html>

Mechanisms of Adverse Drug Effects in Children (R01) (PA-07-146)

National Institute of Child Health and Human Development
Application Receipt/Submission Date(s): Multiple dates, see announcement.
<http://grants.nih.gov/grants/guide/pa-files/PA-07-146.html>

Oral Health of Special Needs and Older Populations (R01) (PA-07-151)

National Institute of Dental and Craniofacial Research
National Institute on Aging
Application Receipt/Submission Date(s): Multiple dates, see announcement.
<http://grants.nih.gov/grants/guide/pa-files/PA-07-151.html>

Health Disparities Among Minority and Underserved Women (R01) (PA-07-154)

National Institute of Nursing Research
National Institute of Child Health and Human Development
National Institute on Drug Abuse
National Institute of Diabetes and Digestive and Kidney Diseases
Office of Research on Women's Health
Application Receipt/Submission Date(s): Multiple dates, see announcement.
<http://grants.nih.gov/grants/guide/pa-files/PA-07-154.html>

Early Identification and Treatment of Mental Disorders in Children and Adolescents (R01) (PA-07-158)

National Institute of Mental Health
Application Receipt/Submission Date(s): Multiple dates, see announcement.
<http://grants.nih.gov/grants/guide/pa-files/PA-07-158.html>

Research on Psychopathology In Intellectual Disabilities (Mental Retardation) (R01) (PA-07-162)

National Institute of Mental Health
Application Receipt/Submission Date(s): Multiple dates, see announcement.
<http://grants.nih.gov/grants/guide/pa-files/PA-07-162.html>

Clinical Research on Mental Illnesses in Older Adults (R01) (PA-07-163)

National Institute of Mental Health
Application Receipt/Submission Date(s): Multiple dates, see announcement.
<http://grants.nih.gov/grants/guide/pa-files/PA-07-163.html>

Pathogenesis And Treatment Of Lymphedema And Lymphatic Diseases (R01) (PA-07-165)

National Heart, Lung, and Blood Institute
National Center for Complementary and Alternative Medicine
National Cancer Institute
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 of Nursing Research
Application Receipt/Submission Date(s): Multiple dates, see announcement.
<http://grants.nih.gov/grants/guide/pa-files/PA-07-165.html>

Tools for Zebrafish Research (R01) (PAR-07-145)

National Institute of Child Health and Human Development
National Cancer Institute
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 Arthritis and Musculoskeletal and Skin Diseases
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
Trans-NIH Zebrafish Coordinating Committee
Application Receipt/Submission Date(s): September 19, 2007
<http://grants.nih.gov/grants/guide/pa-files/PAR-07-145.html>

Building Translational Research in Integrative Behavioral Science (R01) (PAR-07-155)

National Institute of Mental Health
National Institute on Drug Abuse
Application Receipt/Submission Date(s): Multiple dates, see announcement.
<http://grants.nih.gov/grants/guide/pa-files/PAR-07-155.html>

Collaborative Awards in Epilepsy Research for Junior Investigators (R01) (PA-07-200)

National Institute of Neurological Disorders and Stroke
National Institute on Aging
Application Receipt/Submission Date(s): Multiple dates, see announcement.
<http://grants.nih.gov/grants/guide/pa-files/PA-07-200.html>

Characterization, Behavior and Plasticity of Pluripotent Stem Cells (R01) (PA-07-201)

National Institute of Neurological Disorders and Stroke
National Cancer Institute
National Institute on Aging
National Institute of Child Health and Human Development
National Institute on Drug Abuse
National Institute on Deafness and Other Communication Disorders
National Institute of Mental Health
Application Receipt/Submission Date(s): Multiple dates, see announcement.
<http://grants.nih.gov/grants/guide/pa-files/PA-07-201.html>

Deep Sequencing and Haplotype Profiling of Mental Disorders (R01) (PA-07-209)

National Institute of Mental Health
Application Receipt/Submission Date(s): Multiple dates, see announcement.
<http://grants.nih.gov/grants/guide/pa-files/PA-07-209.html>

Functional Assessment of People with Mental Disorders (R01) (PA-07-210)

National Institute of Mental Health
Application Receipt/Submission Date(s): Multiple dates, see announcement.
<http://grants.nih.gov/grants/guide/pa-files/PA-07-210.html>

Health Behavior Change in People with Mental Disorders (R01) (PA-07-211)

National Institute of Mental Health

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

<http://grants.nih.gov/grants/guide/pa-files/PA-07-211.html>

Research on Co-Morbid Mental and Other Physical Disorders (R01) (PA-07-212)

National Institute of Mental Health

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

<http://grants.nih.gov/grants/guide/pa-files/PA-07-212.html>

Networks and Pathways Collaborative Research Projects (R01) (PA-07-266)

National Center for Research Resources

National Cancer Institute

National Heart, Lung, and Blood Institute

National Institute on Aging

National Institute on Drug Abuse

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

Office of Dietary Supplements

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

<http://grants.nih.gov/grants/guide/pa-files/PA-07-266.html>

Brain Disorders in the Developing World: Research Across the Lifespan (R01) (PAR-07-268)

John E. Fogarty International Center

Canadian Institutes of Health Research

National Alliance for Autism Research

National Institute on Aging

National Institute on Alcohol Abuse and Alcoholism

National Institute of Child Health and Human Development

National Institute on Drug Abuse

National Institute of Environmental Health Sciences

National Institute of Mental Health

National Institute of Neurological Disorders and Stroke

Office of Dietary Supplements

Application Receipt/Submission Date(s): August 23, 2007

<http://grants.nih.gov/grants/guide/pa-files/PAR-07-268.html>

Interactions Between Stem and Progenitor Cells and the Microenvironment in Vivo (R01) (PAS-07-189)

National Institute of Neurological Disorders and Stroke

National Cancer Institute

National Eye Institute

National Institute on Aging

National Institute on Alcohol Abuse and Alcoholism

National Institute of Biomedical Imaging and Engineering

National Institute on Drug Abuse

National Institute on Deafness and Other Communication Disorders

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

<http://grants.nih.gov/grants/guide/pa-files/PAS-07-189.html>

Autism and Autism Spectrum Disorders Research Encouraged

The National Institute of Neurological Disorders and Stroke (NINDS) invites grant applications for research on autism and autism spectrum disorders. This announcement is made together with 6 other components of the National Institutes of Health (NIH) and is supported by 3 funding mechanisms: R01, R21, and R03.

Autism is a complex neurodevelopmental disorder with early childhood onset. Autism spectrum disorders share a cluster of impairments in reciprocal social interaction and communication and/or the presence of stereotyped behavior, interests, and activities. These complex disorders are usually lifelong, and affect multiple aspects of development, learning, and adaptation in the community. The causes of these disorders are poorly understood, but are thought to include genetic, metabolic, immunologic, or infectious or other environmental influences.

For more information, potential applicants should contact Dr. Deborah Hirtz, Program Director, Clinical Trials Group, NINDS; telephone: 301-496-5821; e-mail: dh83f@nih.gov. For a more detailed description of this announcement, visit <http://grants.nih.gov/grants/guide/pa-files/PA-06-390.html> (R01), <http://grants.nih.gov/grants/guide/pa-files/PA-06-392.html> (R21), or <http://grants.nih.gov/grants/guide/pa-files/PA-06-391.html> (R03).

Research Sought on Brain Disorders in the Developing World

The National Institute of Neurological Disorders and Stroke (NINDS) encourages grant applications for research on brain disorders across the lifespan relevant to developing nations. This announcement is made together with 9 other components of the National Institutes of Health (NIH), the Canadian Institutes of Health Research (CIHR), and the National Alliance for Autism Research (NAAR).

The purpose of this initiative is to support innovative, collaborative research and research training projects-between scientists from developed and developing countries-on brain disorders throughout life, relevant to low- and middle-income nations. The collaborative programs should involve research on neurological or neurodevelopmental function and impairment throughout life, and contribute to the long-term goal of building sustainable research capacity in developing countries to initiate and conduct such research.

For more information, potential applicants should contact Dr. Yuan Liu, Chief, Office of International Activities, NINDS; telephone: 301-496-1917; e-mail: y15o@nih.gov. For a more detailed description of this announcement, visit <http://grants.nih.gov/grants/guide/pa-files/PAR-06-420.html>.

Clinical Trial Planning Grant Applications Sought

The National Institute of Neurological Disorders and Stroke (NINDS) invites applications for the NINDS clinical trial planning grant program.

The Institute seeks to fund high-quality clinical trials to evaluate treatments for neurological disorders. The purpose of the program is to provide support for the organization of activities critical for the successful implementation of high-risk, complex, or large-scale clinical trials. It is designed to permit early peer review of the rationale for the proposed clinical trial and provide support for the development of a detailed manual of procedures and other essential elements that are needed before a large, clinical trial can begin.

For more information, potential applicants should contact Dr. Scott Janis, Clinical Research Project Manager, Clinical Trials Group, NINDS; telephone: 301-496-9135; e-mail: sj151t@nih.gov. For a more detailed description of this announcement, visit <http://grants.nih.gov/grants/guide/pa-files/PAR-06-460.html>

Development and Application of PET and SPECT Imaging Ligands Encouraged

The National Institute of Neurological Disorders and Stroke (NINDS) encourages applications to develop and apply positron emission tomography (PET) and single photon emission computed

tomography (SPECT) imaging ligands as biomarkers for drug discovery and for pathophysiological studies of central nervous system disorders. This announcement is made together with 5 other components of the National Institutes of Health (NIH) and is supported by 2 funding mechanisms: R21 and R33.

Tremendous opportunities exist for using PET and SPECT imaging in studies of the pathophysiology of brain disorders, but relatively few radioligands are currently available for functional imaging of target molecules implicated in normal brain function, aging, and brain and behavioral disorders. The purpose of this announcement is to support the development of novel radioligands for PET or SPECT imaging in the human brain.

For more information, potential applicants should contact Dr. Debra Babcock, Program Director, Systems and Cognitive Neuroscience Cluster, NINDS; telephone: 301-496-9964; e-mail: db390r@nih.gov. For a more detailed description of this announcement, visit <http://grants.nih.gov/grants/guide/pa-files/PA-06-461.html> (R21) or <http://grants.nih.gov/grants/guide/pa-files/PA-06-462.html> (R33).

Global Research Initiative Program Applications Sought

The National Institute of Neurological Disorders and Stroke (NINDS) encourages applications for the global research initiative program in basic and biomedical sciences. This announcement is made together with 4 other components of the National Institutes of Health (NIH).

The goal of this initiative is to provide funding opportunities for the increasing pool of foreign basic and biomedical scientists, clinical investigators, nurses, and other health professionals upon their return to their home countries. These opportunities will promote state-of-the-art knowledge of research methods to advance the critical issues in global health through basic and biomedical sciences research and technology development.

For more information, potential applicants should contact Dr. Yuan Liu, Chief, Office of International Activities, NINDS; telephone: 301-496-1917; e-mail: y15o@nih.gov. For a more detailed description of this announcement, visit <http://grants.nih.gov/grants/guide/pa-files/PAR-06-394.html>

Independent Scientist Award Applications Encouraged

The National Institute of Neurological Disorders and Stroke (NINDS) encourages applications for independent scientist awards. This announcement is made together with 12 other components of the National Institutes of Health (NIH).

The purpose of the award is to foster the development of outstanding scientists and enable them to expand their potential to make significant contributions to their field of research. The award provides 3, 4, or 5 years of salary support and "protected time" for newly independent scientists who can demonstrate the need for a period of intensive research focus as a means of enhancing their research careers.

For more information, potential applicants should contact Dr. Stephen Korn, Director, Training and Career Development, NINDS; telephone: 301-496-4188; e-mail: NINDStrainingoffice@ninds.nih.gov. For a more detailed description of this announcement, visit <http://grants.nih.gov/grants/guide/pa-files/PA-06-527.html>

International Collaboration on Basic Biomedical Research Encouraged

The National Institute of Neurological Disorders and Stroke (NINDS) invites grant applications for international collaboration on basic biomedical research. This announcement is made together with 10 other components of the National Institutes of Health (NIH).

The opportunity to collaborate internationally provides access to new information and perspectives, innovative concepts and methods, emerging research technologies, and unique populations and environments important for addressing global health problems. The goal of this initiative is to

support collaborative basic biomedical research between scientists supported by NIH and investigators in developing countries. NINDS is specifically interested in supporting collaborations that are relevant to its mission. The institute encourages basic and translational neuroscience research that will lead to the reduction of neurological disease borne by every age group and segment of society throughout the world.

For more information, potential applicants should contact Dr. Yuan Liu, Chief, Office of International Activities, NINDS; telephone: 301-496-1917; e-mail: yl5o@nih.gov. For a more detailed description of this announcement, visit <http://grants.nih.gov/grants/guide/pa-files/PA-06-436.html>

International Research Collaboration in Behavioral and Social Sciences Sought

The National Institute of Neurological Disorders and Stroke (NINDS) encourages grant applications for international research collaboration in behavioral and social sciences. This announcement is made together with 10 other components of the National Institutes of Health (NIH). The opportunity to collaborate internationally provides access to new information and perspectives, innovative concepts and methods, emerging research technologies, and unique populations and environments important for addressing global health problems. The goals of this initiative are to support collaborative behavioral and social science research between scientists supported by NIH and investigators in developing countries, and to help build research capabilities and foster further sustained and productive research and research collaborations at the foreign site.

For more information, potential applicants should contact Dr. Yuan Liu, Chief, Office of International Activities, NINDS; telephone: 301-496-1917; e-mail: yl5o@nih.gov. For a more detailed description of this announcement, visit <http://grants.nih.gov/grants/guide/pa-files/PA-06-437.html>

Networks and Pathways Collaborative Research Projects Sought

The National Institute of Neurological Disorders and Stroke (NINDS) encourages applications for networks and pathways collaborative research projects. This announcement is made together with 11 other components of the National Institutes of Health (NIH).

The purpose of this announcement is to support research projects that will leverage and complement the ongoing technology development being pursued in the National Technology Centers for Networks and Pathways (TCNPs) program - an NIH Roadmap program. TCNPs are interdisciplinary, combining multiple technologies to create novel approaches to map protein networks and pathways of interaction. The NIH Roadmap is an innovative approach to accelerate fundamental discovery and translate that knowledge into effective prevention strategies and new treatments.

For more information, potential applicants should contact Dr. Danilo Tagle, Program Director, Neurogenetics Cluster, NINDS; telephone: 301-496-5745; e-mail: dt39y@nih.gov. For a more detailed description of this announcement, visit <http://grants.nih.gov/grants/guide/pa-files/PA-06-522.html>.

Rapid Access to Intervention Development (RAID) (NOT-CA-07-006)

National Cancer Institute

<http://grants.nih.gov/grants/guide/notice-files/NOT-CA-07-006.html>

The Genes, Environment, and Development Initiative (U01) (RFA-DA-07-012)

National Institute on Drug Abuse

National Cancer Institute

Application Receipt Date(s): March 15, 2007

<http://grants.nih.gov/grants/guide/rfa-files/RFA-DA-07-012.html>

Research on Rural Mental Health and Drug Abuse Disorders (R01) (PA-07-103)

National Institute of Mental Health

National Institute on Drug Abuse

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

<http://grants.nih.gov/grants/guide/pa-files/PA-07-103.html>

Co-Occurring Mental Illness, Alcohol and/or Drug Abuse & Medical Conditions (R01) (PA-07-104)

National Institute of Mental Health

National Institute on Alcohol Abuse and Alcoholism

National Institute on Drug Abuse

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

<http://grants.nih.gov/grants/guide/pa-files/PA-07-104.html>

Cross-Disciplinary Translational Research at NIH (R01) (PA-07-109)

National Institute on Drug Abuse

National Cancer Institute

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

<http://grants.nih.gov/grants/guide/pa-files/PA-07-109.html>

Behavioral & Integrative Treatment Development Program (R01) (PA-07-111)

National Institute on Drug Abuse

National Center for Complementary and Alternative Medicine

National Institute on Alcohol Abuse and Alcoholism

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

<http://grants.nih.gov/grants/guide/pa-files/PA-07-111.html>

The Development Of Frontal Cortex And Limbic System And Their Roles In Drug Abuse Or Mental Health (R01) (PA-07-121)

National Institute on Drug Abuse

National Institute of Mental Health

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

<http://grants.nih.gov/grants/guide/pa-files/PA-07-121.html>

Research Opportunities in Stuttering (R01) (PA-07-124)

National Institute on Deafness and Other Communication Disorders

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

<http://grants.nih.gov/grants/guide/pa-files/PA-07-124.html>

Shared Instrumentation Grant Program (S10) (PAR-07-105)

National Center for Research Resources

Application Receipt/Submission Date(s): March 21, 2007

<http://grants.nih.gov/grants/guide/pa-files/PAR-07-105.html>

NIDCD Translational Research Grants (R01) (PAR-07-128)

National Institute on Deafness and Other Communication Disorders

Application Receipt/Submission Date(s): February 22, 2007

<http://grants.nih.gov/grants/guide/pa-files/PAR-07-128.html>

NEW TSC PUBLICATIONS

Ahmed Z, Rauf F, Azad NS, Ahsan A (2006) Subependymal giant cell astrocytoma. *J Pak Med Assoc* 56(10):463-5

Boehm D, Bacher J, Neumann HP (2007) Gross genomic rearrangement involving the TSC2-PKD1 contiguous deletion syndrome: characterization of the deletion event by quantitative polymerase chain reaction deletion assay. *Am J Kidney Dis* 49(1):e11-21

Camprubi M, Balaguer A, Azon Masoliver A, Jimenez-Feijoo R, Escribano Subias J (2006) Unilateral facial angiofibromas; a review of the literature. *Pediatr Dermatol* 23(3):303-5

Carvalho Neto AD, Gasparetto EL, Bruck I (2006) Subependymal giant cell astrocytoma with high choline/creatine ratio on proton MR spectroscopy. *Arq Neuropsiquiatr* 64(3b):877-880

Chen TC (1998) Hereditary neurological tumor syndromes: clues to glioma oncogenesis? *Neurosurg Focus* 4(4):e1

Choo AY, Rouz PP, Blenis J (2006) Mind the GAP: Wnt steps onto the mTORC1 train. *Cell* 126(5):834-6

Cichon-Mikolajczyk A, Podwinska E, Smietana J, Slota P (2006) [Bourneville-Pringle disease. Case report] *Przeegl Lek* 63(2):104-5 [Published in Polish]

Dorai T, Sawczuk I, Pastorek J, Wiernik PH, Dutcher JP (2006) Role of carbonic anhydrases in the progression of renal cell carcinoma subtypes: proposal of a unified hypothesis. *Cancer Invest* 24(8):754-79

Hebert C, 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* 5:3 <http://www.pubmedcentral.nih.gov/articlerender.fcgi?tool=pubmed&pubmedid=16412252>

Kothur K, Ray M (2006) Antenatal MRI in the Diagnosis of Tuberous Sclerosis. *Indian Pediatr* 43(11):1007-1008

Lee WJ, Kim DU, Lee MY, Choi KY (2006) Identification of proteins interacting with the catalytic subunit of PP2A by proteomics. *Proteomics* 2006 Dec 13 [Epub ahead of print]

Levine NB, Collins J, Franz DN, Crone KR (2006) Gradual formation of an operative corridor by balloon dilation for resection of subependymal giant cell astrocytomas in children with tuberous sclerosis: specialized minimal access technique of balloon dilation. *Minim Invasive Neurosurg* 49(5):317-20

Listernick R (2006) A 6-month-old boy with seizures. *Pediatr Ann* 35(9):614, 617-20

March JC, Bentley WE (2006) Engineering eukaryotic signal transduction with RNAi: enhancing *Drosophila* S2 cell growth and recombinant protein synthesis via silencing of TSC1. *Biotechnol Bioeng* 95(4):645-52

Neufeld TP (2007) TOR Regulation: Sorting out the Answers. *Cell Metab* 5(1):3-5

Parsons RG, Gafford GM, Helmstetter FJ (2006) Translational control via the mammalian target of rapamycin pathway is critical for the formation and stability of long-term fear memory in amygdala neurons. *J Neurosci* 26(50):12977-83

- Robb VA, Karbowniczek M, Klein-Szanto AJ, Henske EP (2007) Activation of the mTOR signaling pathway in renal clear cell carcinoma. *J Urol* 177(1):346-52
- Santos ML, Dinato SL, Morales JM, Nakanishi CP, Dinato MM (2006) [Familial clinical manifestation in patients with neuromesodermic defect.] *Arq Neuropsiquiatr* 64(3b):798-801 [Article in Portuguese]
- Stemmer K, Ellinger-Ziegelbauer H, Lotz K, Ahr HJ, Dietrich DR (2006) Establishment of a protocol for the gene expression analysis of laser microdissected rat kidney samples with affymetrix genechips. *Toxicol Appl Pharmacol* 217(1):134-42 [Epub 2006 Aug 8]
- Thiryayi WA, Donaldson-Hugh M, Ross S, Chakrabarty A (2006) High grade glioma in a focal cortical dysplastic lesion. *J Clin Neurosci* 2006 Dec 21 [Epub ahead of print]
- Valencia I, Legido A, Yelin K, Khurana D, Kothare SV, Katsetos CD (2006) Anomalous inhibitory circuits in cortical tubers of human tuberous sclerosis complex associated with refractory epilepsy: aberrant expression of parvalbumin and calbindin-d(28k) in dysplastic cortex. *J Child Neurol* 21(12):1058-63
- Verulashvili I, Glonti L, Miminoshvili D, Mania M, Mdivani K (2006) [Basal Ganglia calcification: clinical manifestations and diagnostic evaluation.] *Georgian Med News* (140):39-43 [Published in Russian]
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- Weisman R, Roitburg I, Schonburn M, Harari R, Kupiec M (2006) Opposite effects of Tor1 and Tor2 on nitrogen starvation responses in fission yeast. *Genetics* 2006 Dec 18 [Epub ahead of print]
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CONFERENCES AND SEMINARS

January 18, 2007 5-7pm

LAM/TSC Seminar Series

SPEAKER: Dr. Lew Cantley

"mTOR Dependent Regulation of Growth and Metabolism: Implications for the Treatment of LAM/TSC"

New Research Building - Harvard Medical School, 77 Avenue Louis Pasteur, Rm. 350, Boston, MA

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

February 1, 2007 5-7pm

LAM/TSC Seminar Series

SPEAKER: Dr. Cheryl Walker

New Research Building - Harvard Medical School, 77 Avenue Louis Pasteur, Rm. 350, Boston, MA

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

February 1-2, 2007

National Coalition for Health Professional Education in Genetics (NCHPEG) and Genetics Resources on the Web (GROW) 10th Annual Meeting: Pharmacogenomics

Hyatt Regency Bethesda, Bethesda, MD

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

March 29-30, 2007

Curing Epilepsy 2007: Translating Discoveries into Therapies

Natcher Conference Center, Bethesda, MD

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

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

April 19-22, 2007

2007 LAM International Research Conference

The LAM Foundation

Cincinnati, OH

<http://www.thelamfoundation.org>

May 9-12, 2007

68th Annual Meeting of the Society for Investigative Dermatology

The Century Plaza Hotel, Los Angeles, CA

For more information: www.sidnet.org

May 24-26, 2007

Tuberous Sclerosis Complex International Research Conference 2007 in Rome (Italy)

Venue: Grand Hotel Palazzo Carpegna, Rome, Italy

Information: <http://www.ptsroma.it/tsc2007/>

September 23-25, 2007

Tuberous Sclerosis Complex: From Genes to New Therapeutics

International TSC Research Symposium organized by the Tuberous Sclerosis Alliance

Loews Annapolis Hotel, Annapolis, MD

More information coming soon on the TS Alliance website at www.tsalliance.org

September 11-14, 2008

International TSC Conference

Organized by the Tuberous Sclerosis Association, U.K.

Brighton, U.K.

More information coming soon!

NEWS

Neuron's "Hardware Store" Discovered

Neurobiologists have discovered the neuron's "Home Depot" – a rich source of building materials that nerve cells use to construct new connections during learning. The scientists said their discovery offers a new place to search for the factors that cause neurons to sprout connections called dendritic spines. This research was published in the December 07, 2006, issue of Neuron by Michael D. Ehlers, M.D., Ph.D., HHMI investigator at Duke University Medical Center. For the full story, go to:

<http://www.hhmi.org/news/ehlers20061207.html>

Seeing a Neurotoxin's Deadly Grip

Two Howard Hughes Medical Institute research teams working independently have discovered new information about how the botulinum neurotoxin shuts down neurons with deadly efficiency. By providing detailed views of the toxin plugged into its neuronal receptor, the new studies could aid efforts to engineer specialized versions of the powerful neurotoxin that is used to treat a wide array of medical problems. This research was published in the December 13, 2006, issue of Nature by Axel T. Brunger, Ph.D., HHMI investigator, Stanford University and Edwin R. Chapman, Ph.D., HHMI investigator, University of Wisconsin–Madison. For the full story, go to:

<http://www.hhmi.org/news/botulinum20061213.html>

TSC CLINICAL TRIALS AND STUDIES

1. Sirolimus in Treating Patients with Angiomyolipoma of the Kidney

Official Title: Phase II Study of Sirolimus in Patients with Angiomyolipoma of the Kidney Secondary to Tuberous Sclerosis or Lymphangiomyomatosis

Study Purpose:

Rationale: Drugs used in chemotherapy, such as sirolimus, work in different ways to stop the growth of tumor cells, either by killing the cells or by stopping them from dividing.

Purpose: This phase II trial is studying how well sirolimus works in treating individuals with angiomyolipoma of the kidney.

Eligibility:

Ages Eligible for Study: 18 Years - 65 Years

Genders Eligible for Study: Both

Location and Contact Information:

Please refer to this study by ClinicalTrials.gov identifier NCT00126672

Connecticut

Connecticut Children's Medical Center, Hartford, Connecticut, 06106, United States; Recruiting Francis J. DiMario, MD 860-545-9460

Massachusetts

Massachusetts General Hospital, Boston, Massachusetts, 02114, United States; Recruiting Elizabeth Thiele, MD, PhD 617-726-6540

New York

New York University Medical Center, New York, New York, 10016, United States; Recruiting Daniel K. Miles, MD 212-263-8318

Ohio

Cincinnati Children's Hospital Medical Center, Cincinnati, Ohio, 45229-3039, United States; Recruiting

David Franz, MD 513-636-4222 david.franz@chmcc.org

Pennsylvania

University of Pennsylvania Medical Center, Philadelphia, Pennsylvania, 19104-4283, United States; Recruiting

Peter Crino, MD, PhD 215-349-5312

Texas

University of Texas Southwestern Medical Center at Dallas, Dallas, Texas, 75390, United States; Recruiting

Arthur I. Sagalowsky, MD 214-645-8797 arthur.sagalowsky@utsouthwestern.edu

Study chairs or principal investigators: Sandra Dabora, MD, PhD, Study Chair, Brigham and Women's Hospital

For more information about this clinical trial, visit:

<http://www.cancer.gov/clinicaltrials/DFCI-04298>

2. Siblings Wanted for a Modifier Gene Research Study



The Herscot Center for Tuberous Sclerosis Complex and the Center for Human Genetic Research at the Massachusetts General Hospital are trying to identify additional genes that play a role in neurological problems in TSC.

We would like to enroll TSC siblings over 2 years of age that differ in their expression of autism or infantile spasms or uncontrollable seizures

Participants will have:

- clinical evaluation by a neurologist specialized in TSC (Dr. Elizabeth Thiele)
- blood drawn
- brain MRI
- EEG
- neuropsychological testing (only for siblings differing in autism)

The whole study will take about 2 days to complete. There is no direct cost to the participants.

Travel and lodging will be reimbursed for participants who live more than 2 hours away from Boston.

For more information contact Susana Camposano 617-726 0240 (M-F, 8-5), scamposano@partners.org

3. TSC and TSC/LAM Protocols at the National Institutes of Health

The Clinical Research Nurses can be reached toll-free at 1-877-NIH-LUNG, # 3 on the menu or locally through 301-496-3632.

4. Individuals with Seizures Sought

Scientists at the National Institute of Neurological Disorders and Stroke (NINDS) seek people age 5 and older with seizures for participation in research studies. People with seizures that are not controlled by standard antiepileptic drugs are eligible. However, those with other medical conditions, particularly if on-going therapy is needed, may be excluded. The scientists will record seizures with video-EEG (electroencephalogram) monitoring, and will conduct non-invasive brain imaging tests such as positron emission tomography (PET) and magnetic resonance imaging (MRI) scans. The studies may last several months, with an inpatient stay of up to 2 weeks and 10-15 outpatient visits of about an hour each.

Before patients enter the study, they will be screened in the outpatient clinic. The screening will include a history, a neurological examination, an EEG, and an MRI scan, if needed. Even if patients decide not to enter the study after the initial screening, the investigators may be able to make suggestions for further seizure evaluation or treatment.

The studies will take place at the National Institutes of Health (NIH) Clinical Center in Bethesda, MD. All study-related expenses will be paid by the NIH. There is no cost for participation or for any tests associated with the research.

For further information, contact Dr. William Theodore, Chief, Clinical Epilepsy Section, NINDS, NIH, Building 10, Room 5N250, 10 Center Drive MSC 1408, Bethesda, MD 20892-1408; telephone: 301-496-1923. Please refer to study number 01-N-0139.

TSC INFORMATION

For information about TSC and the Tuberous Sclerosis Alliance, 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.

This is the January 2007 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 2007 *TSC Alert* contact: vwhitemore@tsalliance.org

Archived issues of the TSC Alert can be found at: <http://www.tsalliance.org/pages.aspx?content=25>