

TSC ALERT

May 2008



FUNDING OPPORTUNITIES

FEDERAL FUNDING AGENCIES

Department of Defense

Department of Defense Tuberous Sclerosis Complex Research Program (TSCRCP)

The Fiscal Year 2008 (FY08) Defense Appropriations Act provides \$4 million to the Department of Defense TSCRCP to support the best medical research on TSC. The program is administered by the US Army Medical Research and Materiel Command through the Office of the Congressionally Directed Medical Research Programs (CDMRP). The specifics for the program grant mechanisms can be found at: <http://cdmrp.army.mil/funding/tscrp.htm>

Department of Defense Peer Reviewed Medical Research Program (PRMRP)

The Fiscal Year 2008 (FY08) Defense Appropriations Act provides \$50 million to the Department of Defense Peer Reviewed Medical Research Program (PRMRP) to support the best medical research to protect and support military personnel and their beneficiaries and to eradicate diseases that impact these populations. This program is administered by the US Army Medical Research and Materiel Command through the Office of the Congressionally Directed Medical Research Programs (CDMRP). The specifics of the application are given at <http://cdmrp.army.mil/pubs/press/2008/08prmrppreann.htm>

FY08 PRMRP Supplements to the Broad Agency Announcement (BAA) will be released by April 2008 for the various award mechanisms. Proposed research must be focused in one of the following 21 Congressionally directed topic areas: Alcoholism Research, Amyotrophic Lateral Sclerosis, Blood Cancer, Drug Abuse, Epilepsy Research, Eye and Vision Research, Integrated Tissue Hypoxia Research, Interstitial Cystitis, Inflammatory Bowel Disease, Leishmaniasis, Lupus, Kidney Cancer, Mesothelioma, Multiple Sclerosis, Nutrition and Health Promotion, Paget's Disease, Polycystic Kidney Disease, Pulmonary Hypertension, Scleroderma, Social Work Research, Tinnitus.

Please note that all CDMRP award mechanisms require the submission of a pre-application in accordance with the application instructions for that solicitation and that all subsequent proposal submissions are made through <http://www.grants.gov/>.

National Institutes of Health

Enhancing Zebrafish Research with Research Tools and Techniques

This FOA encourages investigator-initiated applications designed to exploit the power of the zebrafish as a vertebrate model for biomedical and behavioral research. Applications proposing to develop new research tools or techniques that are of high priority to the zebrafish community and

that will advance the detection and characterization of genes, pathways, and phenotypes of interest in development and aging, organ formation, neural processes, behavior, sensory processing, physiological processes, and disease processes are welcome.

Key Dates:

Release/Posted Date: April 9, 2008

Opening Date: August 17, 2008

Letters of Intent Receipt Date(s): August 17, 2008, August 17, 2009, August 17, 2010

Application Due Date(s): September 17, 2008, September 17, 2009, September 17, 2010

Earliest Anticipated Start Date(s): July 1, 2009, July 1, 2010, July 1, 2011

Expiration Date: September 18, 2010

For further inquiries regarding this funding opportunity, visit:

<http://grants.nih.gov/grants/guide/pa-files/PA-08-139.html>

Probes and Instrumentation for Monitoring and Manipulating Nervous System Plasticity (SBIR [R43/R44]) (PA-08-146)

National Institute of Mental Health

National Center for Complementary and Alternative Medicine

National Institute on Aging

National Institute on Alcohol Abuse and Alcoholism

National Institute on Deafness and Other Communication Disorders

National Institute of Neurological Disorders and Stroke

National Institute of Nursing Research

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

<http://grants.nih.gov/grants/guide/pa-files/PA-08-146.html>

NIH Support for Conferences and Scientific Meetings (Parent R13/U13) (PA-08-149)

National Institutes of Health

National Center for Complementary and Alternative Medicine

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 Allergy and Infectious Diseases

National Institute of Arthritis and Musculoskeletal and Skin Diseases

National Institute of Biomedical Imaging and Engineering

Eunice Kennedy Shriver 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 Library of Medicine

Office of Behavioral and Social Science Research

Office of Dietary Supplements

Office of Rare 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-08-149.html>

Midcareer Investigator Award in Patient-Oriented Research (K24) (PA-08-151)

National Cancer Institute
National Center for Complementary and Alternative Medicine
National Eye 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
Eunice Kennedy Shriver 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-08-151.html>

Academic Career Award (K07) (PA-08-152)

National Cancer Institute
National Center for Complementary and Alternative Medicine
National Institute on Aging
National Institute on Alcohol Abuse and Alcoholism
Office of Dietary Supplements

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

<http://grants.nih.gov/grants/guide/pa-files/PA-08-152.html>

Quick-Trials for Imaging and Image-Guided Interventions: Exploratory Grants (R21) (PAR-08-147)

National Cancer Institute

Application Receipt/Submission Date(s): August 11, 2008; December 10, 2008; April 10, 2009; August 11, 2009; December 10, 2009; April 9, 2010; August 11, 2010; December 10, 2010; April 11, 2011

<http://grants.nih.gov/grants/guide/pa-files/PAR-08-147.html>

NINR Career Transition Award (K22) (PAR-08-148)

National Institute of Nursing Research

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

<http://grants.nih.gov/grants/guide/pa-files/PAR-08-148.html>

IDEA Networks of Biomedical Research Excellence (INBRE) [P20] (PAR-08-150)

National Center for Research Resources

Application Receipt/Submission Date(s): July 22, 2008, July 22, 2009, and July 22, 2010

<http://grants.nih.gov/grants/guide/pa-files/PAR-08-150.html>

Mouse Models Containing Human Alleles: Novel Tools to Study Brain Function (R21/R33) (PAR-08-158)

National Institute of Mental Health
National Institute on Aging
National Institute on Alcohol Abuse and Alcoholism
National Institute on Drug Abuse

Application Receipt/Submission Date(s): June 26, 2008; January 28, 2009; May 28, 2009; January 28, 2010; May 28, 2010; January 28, 2011
<http://grants.nih.gov/grants/guide/pa-files/PAR-08-158.html>

Request for Information (RFI): To Solicit Ideas for Common Fund / Roadmap Trans-NIH Strategic Initiatives (NOT-RM-08-014)

National Institutes of Health
<http://grants.nih.gov/grants/guide/notice-files/NOT-RM-08-014.html>

NIH Public Access Policy

The mandatory NIH Public Access Policy (<http://grants.nih.gov/grants/guide/notice-files/NOT-OD-08-033.html>) applies to final peer-reviewed manuscripts accepted for publication on or after April 7, 2008. Making published research funded by NIH accessible to everyone, including health care providers, patients, educators and scientists, helps advance science and improve human health.

The NIH Public Access Policy implements Division G, Title II, Section 218 of PL 110-161 (see <http://publicaccess.nih.gov/policy.htm>), which was signed into law late last year. Compliance with this Policy is a legal requirement and a [term and condition](#) for all active grants and contracts awarded as of April 7, 2008. Failure to comply may trigger one or more enforcement actions, depending on the severity and duration of the non-compliance.

Please see the [Public Access Web site](#) for the tools you need to comply with the Policy. The Web site houses Frequently Asked Questions ([FAQs](#)), training information, and other resources.

To ensure compliance with the Policy, please remember to:

Address Copyright - Make sure that any copyright transfer or other publication agreements allow your paper to be submitted to NIH in accordance with the Policy.

Submit Papers upon Acceptance for Publication

1. Some journals will submit the final published article on your behalf, without your involvement. See http://publicaccess.nih.gov/submit_process_journals.htm for a list of these journals.
2. For any journal other than those on this list, please:
 - a. When submitting a paper for publication, inform the journal that the final peer-reviewed manuscript is subject to the NIH Public Access Policy.
 - b. Make sure that any copyright transfer or other publication agreement allows the final peer-reviewed manuscript to be submitted to NIH in accordance with the Policy. For more information, see the FAQ [Whose approval do I need to submit my article to PubMed Central?](#) and consult with your Institution.
 - c. Submit the final peer-reviewed manuscript to NIH upon acceptance for publication at <http://www.nihms.nih.gov/>. See the [Submission Process](#) for more information.

Cite Papers

- § When citing your NIH-funded papers in NIH applications, proposals or progress reports, please include the PubMed Central reference number (PMCID) for each paper.
- § NIH will monitor compliance through citations. Effective May 25, 2008, when your NIH Program Officer reviews your progress report or application, he or she will be expecting a PMCID in the citation of every applicable paper that arose out of your NIH funding, or a

manuscript submission system reference number (NIHMSID) if the PMCID has not been issued. See Section C of our [FAQ](#) for examples.

- § If you publish through a journal listed under http://publicaccess.nih.gov/submit_process_journals.htm, there might be a slight delay in assignment of a PMCID. That is okay. We have signed agreements with these journals that allow NIH to resolve submission with them without your involvement. To facilitate your Program Officer's job, we ask that you indicate 'PMC Journal- In Process' until the PMCID is available.

The NIH Public Access Policy is a legal requirement and represents an important opportunity for science and medicine. We are very interested in your feedback on the Policy and are soliciting input through a request for information from March 31, 2008 to May 31, 2008. Please send any comments or suggestions to <http://publicaccess.nih.gov/comments.htm>.

For the latest in NIH grants policies and initiatives, subscribe to the [NIH Extramural Nexus](#)

[OTHER FUNDING AGENCIES](#)

Epilepsy Foundation

The Epilepsy Foundation supports a range of grants and fellowships to advance the understanding of epilepsy that will lead to better treatment, more effective prevention, and ultimately to a cure. The Foundation supports research and scientific training opportunities in a variety of fields on epilepsy-related issues of fundamental importance in basic, clinical, translational and the behavioral sciences. Fall proposals are due August 29, 2008 for funding to begin January 1, 2009:

- Partnership for Pediatric Epilepsy Research (up to \$100,000)
- Postdoctoral Research and Training Fellowships (\$40,000)
- Predoctoral Research and Training Fellowships (\$20,000)
- Research and Training Fellowships for Clinicians (up to 2 years/\$100,000)
- Research Grants (up to 2 years/\$100,000)
- New Therapy Grants (award amounts vary)

For further information, including applications and deadlines, please visit the Epilepsy Foundation web site at www.epilepsyfoundation.org/research/grants.cfm or phone: 301-459-3700.

TSC PUBLICATIONS

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Baskin HJ Jr (2008) The pathogenesis and imaging of the tuberous sclerosis complex. *Pediatr Radiol* 2008 Apr 15 [Epub ahead of print]

Boer K, Troost D, Jansen F, Nellist M, van den Ouweland AM, Geurts JJ, Spliet WG, Crino P, Aronica E (2008) Clinicopathological and immunohistochemical findings in an autopsy case of tuberous sclerosis complex. *Neuropathology* 2008 Apr 11 [Epub ahead of print]

Boussouga M, Harket A, Bousselmame N, Lazrak K (2008) Lymphangiomyoma of the shoulder: an exceptional localisation. A case report. *Acta Orthop Belg* 74(1):114-7

Bragatti Winckler MI, Dos Santos Riesgo R, Ohlweiler L, Ranzan J, Tellechea Rotta N (2007) [Surgical indications in pediatric epilepsy.] *Medicina (B Aires)* 67(6 Pt 1):614-22 [Article published in Spanish]

Burgstaller S, Rosner M, Lindengrun C, Hanneder M, Siegel N, Valli A, Fuchs C, Hengstschlager M (2008) Tuberin, p27 and mTOR in different cells. *Amino Acids* 2008 Apr 2 [Epub ahead of print]

Calcagni G, Gesualdo F, Tamisier D, Brunelle F, Sidi D, Ou P (2008) Arterial aneurysms and tuberous sclerosis: a classic but little known association. *Pediatr Radiol* 2008 Apr 18 [Epub ahead of print]

Catalano OA, Samir AE, Sahani DV, Hahn PF (2008) Pixel Distribution Analysis: Can It be Used to Distinguish Clear Cell Carcinomas from Angiomyolipomas with Minimal Fat? *Radiology* 2008 Apr 15 [Epub ahead of print]

Chassoux F (2008) [Malformation of cortical development: Which strategy is best?] *Neurochirurgie* 2008 Apr 17 [Epub ahead of print] [Article published in French]

Chorianopoulos D, Stratakos G (2008) Lymphangioliomyomatosis and Tuberous Sclerosis Complex. *Lung* 2008 Apr 12 [Epub ahead of print]

Cristodor P, Esmaeili M, Glaja R, Brinzeu DT, Ursoniu S (2007) [Dermabrasion in two cases of tuberous sclerosis] *Rev Med Chir Soc Med Nat Iasi* 111(4):918-21 [Article published in Romanian]

Das F, Ghosh-Choudhury N, Mahimainathan L, Venkatesan B, Feliers D, Riley DJ, Kasinath BS, Choudhury GG (2008) Raptor-riCTOR axis in TGFbeta-induced protein synthesis. *Cell Signal* 20(2):409-23 [Epub 2007 Nov 7]

Denley A, Gymnopoulos M, Hart JR, Jiang H, Zhao L, Vogt PK (2008) Biochemical and Biological Characterization of Tumor-Associated Mutations of p110alpha. *Methods Enzymol* 438:291-305

Freilinger A, Rosner M, Hanneder M, Hengstschlager M (2008) Ras mediates cell survival by regulating tuberin. *Oncogene* 27(14):2072-83 [Epub 2007 Oct 8]

Gwinn DM, Shackelford DB, Egan DF, Mihaylova MM, Mery A, Vasquez DS, Turk BE (2008) AMPK phosphorylation of raptor mediates a metabolic checkpoint. *Mol Cell* 30(2):214-26

Hendricks M, Mathuru AS, Wang H, Silander O, Kee MZ, Jesuthasan S (2008) Disruption of Esrom and Ryk identifies the roof plate boundary as an intermediate target for commissure formation. *Mol Cell Neurosci* 37(2):271-83 [Epub 2007 Oct 16]

Hu J, Zacharek S, He YJ, Lee H, Shumway S, Duronio RJ, Xiong Y (2008) WD40 protein FBW5 promotes ubiquitination of tumor suppressor TSC2 by DDB1-CUL4-ROC1 ligase. *Genes Dev* 22(7):866-71

Huang J, Dibble CC, Matsuzaki M, Manning BD (2008) The TSC1-TSC2 complex is required for proper activation of mTOR complex 2. *Mol Cell Biol* 2008 Apr 14 [Epub ahead of print]

Humphrey A, Ploubidis GB, Yates JR, Steinberg T, Bolton PF (2008) The Early Childhood Epilepsy Severity Scale (E-Chess). *Epilepsy Res* 2008 Apr 1 [Epub ahead of print]

Kalantari BN, Salamon N (2008) Neuroimaging of tuberous sclerosis: spectrum of pathologic findings and frontiers in imaging. *AJR Am J Roentgenol* 190(5):W304-9

Korol UB, Schoor R, Nanda V, Almas K, Phelan JA (2008) Gingival Enlargement as a Manifestation of Tuberous Sclerosis: Case Report and Periodontal Management. *J Periodontol* 79(4):759-763

Kossoff EH, Hedderick EF, Turner Z, Freeman JM (2008) A case-control evaluation of the ketogenic diet versus ACTH for new-onset infantile spasms. *Epilepsia* 2008 Apr 10 [Epub ahead of print]

Lee DF, Hung MC (2007) All roads lead to mTOR: integrating inflammation and tumor angiogenesis. *Cell Cycle* 6(24):3011-4 [Epub 2007 Sep 20]

Lenci I, Angelico M, Tisone G, Orlacchio A, Palmieri G, Pinci M, Bombardieri R, Curatolo P (2008) Massive hepatic angiomyolipoma in a young woman with tuberous sclerosis complex: Significant clinical improvement during tamoxifen treatment. *J Hepatol* 2008 Mar 31 [Epub ahead of print]

Lu KH, Wu W, Dave B, Slomovitz BM, Burke TW, Munsell MF, Broaddus RR, Walker CL (2008) Loss of tuberous sclerosis complex-2 function and activation of Mammalian target of rapamycin signaling in endometrial carcinoma. *Clin Cancer Res* 14(9):2543-50

Maheshwari N, Zaiwalla Z, McShane MA (2008) Management of infantile spasms in a regional centre before and after the United Kingdom infantile spasms study (UKISS). *Arch Dis Child* 93(5):448

Matsuyama A, Hisaoka M, Ichikawa K, Fujimori T, Udo K, Uchihashi K, Aoki S, Hashimoto H (2008) Sclerosing variant of epithelioid angiomyolipoma. *Pathol Int* 58(5):306-10

McBride SM, Haas-Kogan DA (2008) Nutrient-sensitive, antagonistically pleiotropic genes and their contribution to malignant behavior. *Med Hypotheses* 70(2):444-53 [Epub 2007 Aug 8]

McCampbell AS, Walker CL, Broaddus RR, Cook JD, Davies PJ (2008) Developmental reprogramming of IGF signaling and susceptibility to endometrial hyperplasia in the rat. *Lab Invest* 2008 Apr 21 [Epub ahead of print]

Moorman NJ, Cristea IM, Terhune SS, Rout MP, Chait BT, Shenk T (2008) Human Cytomegalovirus Protein UL38 Inhibits Host Cell Stress Responses by Antagonizing the Tuberous Sclerosis Protein Complex. *Cell Host Microbe* 3(4):253-62

Peng L, Wen Y, Han Y, Wei A, Shi G, Mizuguchi M, Lee P, Hernando E, Mittal K, Wei JJ (2008) Expression of insulin-like growth factors (IGFs) and IGF signaling: molecular complexity in uterine leiomyomas. *Fertil Steril* 2008 Apr 24 [Epub ahead of print]

Pymer LS, Platt FM, Askham JM, Morrison EE, Knowles MA (2008) Bladder tumour derived somatic TSC1 missense mutations cause loss of function via distinct mechanisms. *Hum Mol Genet* 2008 Apr 7 [Epub ahead of print]

Ramirez-Valle F, Braunstein S, Zavadil J, Formenti SC, Schneider RJ (2008) eIF4GI links nutrient sensing by mTOR to cell proliferation and inhibition of autophagy. *J Cell Biol* 181(2):293-307

Ramon J, Rimon U, Garniek A, Golan G, Bensaid P, Kitrey ND, Nadu A, Dotan ZA (2008) Renal Angiomyolipoma: Long-term Results Following Selective Arterial Embolization. *Eur Urol* 2008 Apr 23 [Epub ahead of print]

Sato T, Umetsu A, Tamanoi F (2008) Characterization of the Rheb-mTOR Signaling Pathway in Mammalian Cells: Constitutive Active Mutants of Rheb and mTOR. *Methods Enzymol* 438:307-20

Schade GR, Gofrit ON, Zorn KC (2008) Renal angiomyolipoma with intravascular extension into the inferior vena cava: a case report and review of the literature. *Can J Urol* 15(2):4012-5

Scrima A, Thomas C, Deaconescu D, Wittinghofer A (2008) The Rap-RapGAP complex: GTP hydrolysis without catalytic glutamine and arginine residues. *EMBO J* 27(7):1145-53 [Epub 2008 Feb 28]

Smith EM, Proud CG (2008) cdc2-cyclin B regulates eEF2 kinase activity in a cell cycle- and amino acid-dependent manner. *EMBO J* 27(7):1005-16 [Epub 2008 Mar 13]

Stavrinou P, Spiliotopoulos A, Patsalas I, Balogiannis I, Karkavelas G, Polyzoidis K, Selviaridis P (2008) Subependymal giant cell astrocytoma with intratumoral hemorrhage in the absence of tuberous sclerosis. J Clin Neurosci 2008 Apr 3 [Epub ahead of print]

Wang QP, Jammoul F, Duboc A, Gong J, Simonutti M, Dubus E, Craft CM, Ye W, Sahel JA, Picaud S (2008) Treatment of epilepsy: the GABA-transaminase inhibitor, vigabatrin, induces neuronal plasticity in the mouse retina. Eur J Neurosci 27(8):2177-87

Yagishita A (2008) [Imaging of the brain malformations] Brain Nerve 60(4):453-62 [Article published in Japanese]

Yen CJ, Izzo JG, Lee DF, Guha S, Wei Y, Wu TT, Chen CT, Kuo HP, Hsu JM, Sun HL, Chou CK, Buttar NS, Wang KK, Huang P, Ajani J, Hung MC (2008) Bile acid exposure up-regulates tuberous sclerosis complex 1/mammalian target of rapamycin pathway in Barrett's-associated esophageal adenocarcinoma. Cancer Res 68(8):2632-40

Zajac A, Herman-Sucharska I, Krocza S, Kubik A, Mardzewska-Szczepanik M (2007) [Brain MRI data in children with so called primary generalized seizures] Przegl Lek 64(11):942-5 [Article published in Polish]

Zamponi N, Rychlicki F, Corpaci L, Cesaroni E, Trignani R (2008) Vagus nerve stimulation (VNS) is effective in treating catastrophic 1 epilepsy in very young children. Neurosurg Rev 2008 Apr 30 [Epub ahead of print]

Zeng LH, Xu L, Gutmann DH, Wong M (2008) Rapamycin prevents epilepsy in a mouse model of tuberous sclerosis complex. Ann Neurol 2008 Apr 3 [Epub ahead of print]

Zhao L (2008) Gene symbol: TSC2. Disease: Tuberous sclerosis. Hum Genet 123(1):113

CONFERENCES, WORKSHOPS, SEMINARS

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May 15-17, 2008

Conference on Diagnosis and Treatment in Pediatric Neurology

Warsaw, Poland

For more information: www.neuroped2008.pl

May 20-22, 2008

4th International Conference on Rare Diseases and Orphan Drugs (ICORD)

Global Approaches for Rare Diseases Research and Orphan Products Development

Washington, DC

For more information: <http://www.icord.cc>

May 29, 2008; 5:00 – 7:00 pm

LAM/TSC Seminar Series

Ray Yeung, M.D., F.R.C.S. (C), F.A.C.S.

New Research Building, Harvard, Boston, MA

<http://www.lamtsccseminarseries.org>

Email LAMTSClive@LAMTreatmentAlliance.org for remote access to the webcast and webchat for this session!

June 12-17, 2008

The World Cancer Congress 2008: From Basic Research to Therapeutics

Shanghai & Hangzhou, China

For more information: <http://www.bitlifesciences.com/cancer2008/>

June 22-25, 2008

1st International Epilepsy Colloquium on the Mesial Temporal Lobe Epilepsies

Marburg, Germany

This colloquium is part of a series to be continued in Lyon, France in 2009 and Cleveland, Ohio, USA in 2010.

For more information:

AKM Congress Service GmbH

Hauptstr. 18

D-79576 Weil am Rhein

Phone: +49 (7621) 983345

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E-mail: laubscher.s@akmcongress.com

www.akmcongress.com

July 12-16, 2008

6th FENS Forum of European Neuroscience

Geneva, Switzerland

More information: forum2008@fens.org

July 27-Aug 1, 2008

PKD Meeting Sponsored by FASEB

Snowmass, CO

For more information: <http://www.faseb.org/meetings/futuremeetings.htm>

August 3-8, 2008

Gordon Conference: Mechanisms of Epilepsy and Neuronal Synchronization

Colby College, Waterville, ME

Application Deadline: Applications for this meeting must be submitted by July 13, 2008

<http://www.grc.org/programs.aspx?year=2008&program=epilepsy>

September 11-13, 2008

TSC International Research Conference 2008

University of Sussex, Brighton, UK

Organized by the Tuberous Sclerosis Association, U.K.

For more information: www.tuberous-sclerosis.org

NEWS

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Epilepsy Drug Causes Bone Loss in Young Women

ST. PAUL, Minn. – Young women who took the commonly used epilepsy drug phenytoin for one year showed significant bone loss compared to women taking other epilepsy drugs, according to a study published in the April 29, 2008, issue of *Neurology*[®], the medical journal of the American Academy of Neurology.

Researchers tested the bone health of 93 women with epilepsy who were between the ages of 18 and 40 and were taking the epilepsy drugs phenytoin, carbamazepine, lamotrigine or valproate. Bone mineral density was measured at the spine and two areas of the hip, (the femoral neck and total hip) at the beginning of the study and one year later. Researchers also evaluated each woman's nutrition and physical activity, along with other factors that affect bone health.

The study found women taking phenytoin for one year lost 2.6 percent of the bone density in the femoral neck of the hip. Women taking the other epilepsy drugs did not lose any bone density in the femoral neck. There was no bone loss at the spine or the total hip in any group.

"This is a significant amount of bone loss and raises serious concerns about the long-term effects of taking phenytoin in young women with epilepsy," said study author Alison M. Pack, MD, with Columbia University in New York, NY, and member of the American Academy of Neurology. "This is one of the first prospective studies to examine the long-term effects of common epilepsy drugs on rates of bone loss in young women."

"This amount of bone loss, especially if it continues over the long term, could put these women at increased risk of fractures after menopause," Pack said. Femoral neck fractures are tied to a higher risk of death in elderly people.

The study was supported by grants from the National Institutes of Health and GlaxoSmithKline.

TSC CLINICAL TRIALS

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TSC Clinical Trials: A complete list of clinical trials that are currently enrolling study participants can be viewed on the TS Alliance web site at:

<http://tsalliance.easycqi.com/pages.aspx?content=370>

INFORMATION ABOUT TSC

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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 May 2008 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 June 2008 *TSC Alert* contact: vwhittemore@tsalliance.org

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