

TSC ALERT

June 2008



FUNDING OPPORTUNITIES

FEDERAL FUNDING AGENCIES

Department of Defense

Department of Defense Tuberous Sclerosis Complex Research Program (TSCR)

The Fiscal Year 2008 (FY08) Defense Appropriations Act provides \$4 million to the Department of Defense TSCR 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

NHLBI Progenitor Cell Biology Consortium Planning Awards (R03) (RFA-HL-08-012)

National Heart, Lung, and Blood Institute

Application Receipt Date(s): August 15, 2008

<http://grants.nih.gov/grants/guide/rfa-files/RFA-HL-08-012.html>

NCMHD Exploratory Centers of Excellence (P20) (RFA-MD-08-004)

National Center for Minority Health and Health Disparities

Application Receipt Date(s): July 31, 2008

<http://grants.nih.gov/grants/guide/rfa-files/RFA-MD-08-004.html>

NCMHD Comprehensive Centers of Excellence (P60) (RFA-MD-08-005)

National Center for Minority Health and Health Disparities

Application Receipt Date(s): August 29, 2008

<http://grants.nih.gov/grants/guide/rfa-files/RFA-MD-08-005.html>

NINDS Research Education Programs for Residents and Fellows in Neurology and Neurosurgery (R25) (RFA-NS-09-001)

National Institute of Neurological Disorders and Stroke

Application Receipt Date(s): September 10, 2008

<http://grants.nih.gov/grants/guide/rfa-files/RFA-NS-09-001.html>

OTHER FUNDING AGENCIES

AMERICAN EPILEPSY SOCIETY

Early Career Physician - Scientist Award

The American Epilepsy Society and the Milken Family Foundation are proud to announce the Early Career Physician - Scientist Award, for physician scientists who are embarking on academic careers and wish to develop outstanding epilepsy research programs. Generously funded by the Milken Family Foundation, this program seeks to encourage the development of new therapies for epilepsy by providing research training for physicians early in their academic career. *Awardees are required to be present for the award announcement at the AES Annual Meeting in Seattle, WA this December.* Application Deadline: 5 p.m. (EST) Monday, September 8, 2008 For details, visit:

www.aesnet.org.

Research Initiative Fund

AES has established a novel grant opportunity for its membership that will provide seed support to encourage innovative, collaborative basic or clinical research associated with the epilepsy field. Awards from the Research Initiative Fund will be given to AES members who are established investigators. The objective of these awards is to encourage established investigators to think "outside the box" and involve other established investigators who may not now be working in the field of epilepsy. *Members who are candidates for an Epilepsy Foundation Junior Investigator Award or AES and EF research or training fellowships will not be considered.* Application Deadline: Monday, August 25, 2008. For information, visit: www.aesnet.org.

Research Infrastructure Award

The Research Infrastructure Award is the result of AES and the Epilepsy Foundation partnering to provide an opportunity for scientists to obtain support for worldwide, collaborative networks of clinical or basic science researchers focused on understanding the causes, consequences and treatment of epilepsy. *Nominations for this award are not limited to AES members.* Application Deadline: Monday, August 25, 2008. For details, visit: www.aesnet.org.

PKD FOUNDATION

Request for Applications for the Standard Grant Award

The PKD Foundation is interested in fostering further research in polycystic kidney disease and other hereditary cystic disorders in order to understand the physiological, biochemical and genetic mechanisms of disease and to support the development of potential interventions that would slow the rate of both renal and biliary lesions and other systemic manifestations of PKD and lead to therapeutic interventions for these disorders.

Key Details: This is a two-year award for \$85,000/year for a total of \$170,000. Second year funding is dependent upon review of the first year progress report and the availability of funds.

Key Facts: The PKD Foundation historically funds approximately 41% of those grant applications received.

Key Dates:

Application Deadline: August 15, 2008

Peer Review Dates: September – November 2008

Anticipated Funding Start Date: February 2009

For application information and downloadable forms, go to:

<http://www.pkdcure.org/tabid/388/default.aspx>

TSC PUBLICATIONS

Camposano SE, Major P, Halpern E, Thiele EA (2008) Vigabatrin in the treatment of childhood epilepsy: A retrospective chart review of efficacy and safety profile. *Epilepsia* 2008 May 9 [Epub ahead of print]

Crino PB (2007) Focal brain malformations: a spectrum of disorders along the mTOR cascade. *Novartis Found Symp* 288:260-72; discussion 272-81

Dan HC, Baldwin AS (2008) Differential Involvement of I{kappa}B Kinases {alpha} and {beta} in Cytokine- and Insulin-Induced Mammalian Target of Rapamycin Activation Determined by Akt. *J Immunol* 180(11):7582-9

Egan JJ, Remund KF, Corris P (2008) Sirolimus for lymphangi leiomyomatosis lesions. *N Engl J Med* 358(18):1963-4; author reply 1964

Froio E, Piana S, Cavazza A, Valli R, Abrate M, Gardini G (2008) Multifocal PEComa (PEComatosis) of the Female Genital Tract Associated With Endometriosis, Diffuse Adenomyosis, and Endometrial Atypical Hyperplasia. *Int J Surg Pathol* 2008 May 21 [Epub ahead of print]

Gupta S, Bhowate R, Degwekar SS (2008) Clinical and radiological findings related to tuberous sclerosis complex: a case report. *J Contemp Dent Pract* 9(4):85-91

Hawker MJ, Astbury NJ (2008) The ocular side effects of vigabatrin (Sabril): information and guidance for screening. *Eye* 2008 May 23 [Epub ahead of print]

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Imamura O, Okada H, Takashima Y, Zhang D, Kobayashi T, Hino O (2008) siRNA-mediated Erc gene silencing suppresses tumor growth in Tsc2 mutant renal carcinoma model. *Cancer Lett* 2008 May 17 [Epub ahead of print]

Iwamoto I, Fujino T, Douchi T (2008) Chylous vaginal discharge in a patient with lymphangi leiomyomatosis. *Am J Obstet Gynecol* 2008 May 22 [Epub ahead of print]

Jiang X, Kenerson H, Aicher L, Miyaoka R, Eary J, Bissler J, Yeung RS (2008) The tuberous sclerosis complex regulates trafficking of glucose transporters and glucose uptake. *Am J Pathol* 172(6):1748-56

- Johnston MV, Ishida A, Ishida WN, Matsushita HB, Nishimura A, Tsuji M (2008) Plasticity and injury in the developing brain: Lecture for the 49th meeting of the Japanese Society of Child Neurology. *Brain Dev* 2008 May 17 [Epub ahead of print]
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- Kobayashi M, Nakano K, Nukui A, Goto K, Morita T (2008) Bilateral Massive Renal Angiomyolipoma Concurrent with Oncocytoma in Tuberous Sclerosis Complex Associated with Pulmonary Lymphangiomyomatosis. *Urology* 2008 May 1 [Epub ahead of print]
- La Parra Casado C, Muro Velilla D, Molina Fàbrega R, Sangüesa Nebot C (2008) [Radiologic findings in non-wilms' renal tumors in children.] *Radiologia* 50(3):215-24 [Article published in Spanish]
- Leventer RJ, Guerrini R, Dobyns WB (2008) Malformations of cortical development and epilepsy. *Dialogues Clin Neurosci* 10(1):47-62
- 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
- Major P, Thiele EA (2008) Vagus nerve stimulation for intractable epilepsy in tuberous sclerosis complex. *Epilepsy Behav* 2008 May 7 [Epub ahead of print]
- 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]
- McNeill H, Craig GM, Bateman JM (2008) Regulation of neurogenesis and EGFR signalling by the insulin receptor/TOR pathway in *Drosophila*. *Genetics* 2008 May 27 [Epub ahead of print]
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Rizzardi G, Loy M, Marulli G, Rea F (2008) Persistent chylothorax in lymphangiomyomatosis treated by intrapleural instillation of povidone. Eur J Cardiothorac Surg 2008 Apr 30 [Epub ahead of print]

Ruths D, Muller M, Tseng JT, Nakhleh L, Ram PT (2008) The signaling petri net-based simulator: a non-parametric strategy for characterizing the dynamics of cell-specific signaling networks. PLoS Comput Biol 4(2):e1000005
<http://www.pubmedcentral.nih.gov/articlerender.fcgi?tool=pubmed&pubmedid=18463702>

Salinas-Martín MV, Muñoz-Repeto I, Pavón-Delgado A (2008) [Cardiac rhabdomyomatosis associated with tuberous sclerosis.] Med Clin (Barc) 130(16):638 [Article published in Spanish]

Santra G (2008) Tuberous sclerosis. J Assoc Physicians India 56:107

Schenck A, Goto-Silva L, Collinet C, Rhinn M, Giner A, Habermann B, Brand M, Zerial M (2008) The endosomal protein Appl1 mediates Akt substrate specificity and cell survival in vertebrate development. Cell 133(3):486-97

See WA (2008) Predicting outcome in minimally invasive (T1a and T1b) urothelial bladder carcinoma using a panel of biomarkers: A high throughput tissue microarray analysis Mhawech-Fauceglia P, Fischer G, Alvarez V Jr, Ahmed A, Herrmann FR, Department of Pathology and Laboratory Medicine at Roswell Park Cancer Institute, Buffalo, NY. Urol Oncol 26(3):336

Wang W, Piao YS, Liu L, Chen L, Wei LF, Yang H, Lu DH (2008) [Expression of drug resistance-associated proteins in brain of patients with refractory epilepsy] Zhonghua Bing Li Xue Za Zhi 37(1):21-6 [Article published in Chinese]

Winship IM, Dudding TE (2008) Lessons from the skin--cutaneous features of familial cancer. Lancet Oncol 9(5):462-72

Xia H, Nho R, Kleidon J, Kahm J, Henke CA (2008) Polymerized collagen inhibits fibroblast proliferation via a mechanism involving the formation of a beta I integrin/PP2A/TSC2 complex that suppresses S6K1 activity. J Biol Chem 2008 May 16 [Epub ahead of print]
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Zhang YX, Meng H, Zhong DR, Jiang YX, Dai Q, Zhang H (2008) Cardiac rhabdomyoma and renal cyst in a fetus: early onset of tuberous sclerosis with renal cystic disease. J Ultrasound Med. 27(6):979-82

CONFERENCES, WORKSHOPS, SEMINARS

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

Tuberous Sclerosis International Research Conference

University of Sussex, Brighton, UK

We extend a warm invitation to all of our colleagues in the scientific community and beyond with an interest in tuberous sclerosis complex. The latest advances in the field will be presented for discussion and abstracts are invited for sessions on -

TSC Molecular Biology and Genetics
Neurobiology and Epilepsy
Behaviour and Social Care
Clinical trials
Epidemiology and Natural History
Clinical problems

Booking details and an outline conference programme will be posted on the website (www.tuberous-sclerosis.org) shortly. Click here to download an [invitation flyer](#) or [email](#) Jane Cox, Deputy Head of Research for more information.

October 3, 2008

What A Difference an X Makes: The State of Women's Health Research

Barbara Jordan Conference Center, Kaiser Family Foundation
Washington, DC

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NEWS

HHMI Selects 56 of the Nation's Top Scientists

Fifty-six of the nation's most creative biomedical scientists are being given the opportunity to tackle their most ambitious, risky research plans, as they become the newest class of Howard Hughes Medical Institute investigators. The 42 men and 14 women represent 31 institutions nationwide. The Institute is committing more than \$600 million over their first term of appointment. Included in the group of 56 are Dujaila Pan, Ph.D., Johns Hopkins University who was instrumental in identifying the function of the TSC1/2 genes in *Drosophila*; Bernardo Sabatini, M.D., Ph.D., whose research included understanding the role of the TSC1/2 genes in dendritic spines; and David Sabatini, M.D., Ph.D., who identified mTOR (mammalian target of rapamycin), and continues to study this important signaling pathway. For the full story, as well as profiles of each of the 56 new HHMI investigators, go to <http://www.hhmi.org/news/20080527>

TSC CLINICAL TRIALS

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.easycgi.com/pages.aspx?content=370>

INFORMATION ABOUT TSC

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 June 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 July 2008 *TSC Alert* contact: vwhitemore@tsalliance.org

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