



TSC ALERT

August 2007

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IMPORTANT SUBMISSION DEADLINES

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

Online registration deadline: August 31, 2007

Information and Registration Forms at: www.tsalliance.org

Change in Deadlines for TS Alliance Research Grants Program

The TS Alliance will release the RFAs for FY08 following the TSC Conference in September 2007. The anticipated deadlines for FY08 are:

- October 2007 – Release of FY08 RFAs
- December 1, 2007 - Deadline for submission of Letter of Intent (LOI) to the TS Alliance
- January 2009 - Applicants notified of review of LOIs and invitations to submit grant applications distributed
- March 3, 2008 - Deadline for submission of grant applications
- June 2008 - Notification of grant awards
- July 1, 2008 - Earliest start date for new grant awards

FUNDING OPPORTUNITIES

National Institutes of Health

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>

Population Research Infrastructure Program (R24) (RFA-HD-07-009)

National Institute of Child Health and Human Development
Application Receipt Date(s): September 19, 2007
<http://grants.nih.gov/grants/guide/rfa-files/RFA-HD-07-009.html>

Tools and Techniques for Elucidating and Manipulating Neural Circuit Development (R21) (RFA-MH-08-060)

National Institutes of Health
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 on Deafness and Other Communication Disorders
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
Application Receipt Date(s): September 17, 2007
<http://grants.nih.gov/grants/guide/rfa-files/RFA-MH-08-060.html>

Mathematical Cognition and Specific Learning Disabilities (R01) (RFA-HD-07-005)

National Institute of Child Health and Human Development
Application Receipt Date(s): November 29, 2007
<http://grants.nih.gov/grants/guide/rfa-files/RFA-HD-07-005.html>

Computational Tools for Research in Neuroscience, Behavioral Science and Mental Health: STTR [R41/R42] (PA-07-423)

National Institute of Mental Health
Application Receipt/Submission Date(s): Multiple dates, see announcement.
<http://grants.nih.gov/grants/guide/pa-files/PA-07-423.html>

Computational Tools for Research in Neuroscience, Behavioral Science and Mental Health: SBIR [R43/R44] (PA-07-424)

National Institute of Mental Health
Application Receipt/Submission Date(s): Multiple dates, see announcement.
<http://grants.nih.gov/grants/guide/pa-files/PA-07-424.html>

Bridges to the Doctorate Program (R25) (PAR-07-410)

National Institute of General Medical Sciences
National Center for Minority Health and Health Disparities
Application Receipt/Submission Date(s): Application Submission/Receipt Date(s): September 18, 2007; January 18, 2008; September 18, 2008; January 20, 2009; September 18, 2009; January 20, 2010
<http://grants.nih.gov/grants/guide/pa-files/PAR-07-410.html>

Bridges to the Baccalaureate Program (R25) (PAR-07-411)

National Institute of General Medical Sciences
National Center for Minority Health and Health Disparities
Application Receipt/Submission Date(s): January 20, 2010
<http://grants.nih.gov/grants/guide/pa-files/PAR-07-411.html>

Large-Scale Collaborative Project Awards (R24/U54) (PAR-07-412)

National Institute of General Medical Sciences
Application Receipt/Submission Date(s): Application Receipt Date (s): Phase I: " September 17, 2007-2009; Phase II: " June 17, 2008-2010 AIDS Application Receipt Date (s): Not Applicable
<http://grants.nih.gov/grants/guide/pa-files/PAR-07-412.html>

Developmental Pharmacology (R01) (PAR-07-416)

National Institute of Child Health and Human Development
National Institute on Drug Abuse
National Institute of Environmental Health Sciences
National Institute of General Medical Sciences
National Institute of Neurological Disorders and Stroke
Application Receipt/Submission Date(s): September 21, 2007, January 22, 2008, May 22, 2008, September 22, 2008, January 21, 2009, May 21, 2009, September 21, 2009, January 21, 2010, May 23, 2010
<http://grants.nih.gov/grants/guide/pa-files/PAR-07-416.html>

Neuroimaging Informatics Software Enhancement for Improved Interoperability and Dissemination (R03) (PAR-07-417)

National Institute of Biomedical Imaging and Engineering
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 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 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
Application Receipt/Submission Date(s): September 24, 2007; January 15, 2008; May 15, 2008; September 15, 2008, January 15, 2009; May 15, 2009; September 15, 2009; January 15 2010; and May 14, 2010
<http://grants.nih.gov/grants/guide/pa-files/PAR-07-417.html>

NIDCR Small Grant Program for New Investigators (R03) (PAR-07-418)

National Institute of Dental and Craniofacial Research
Application Receipt/Submission Date(s): Multiple dates, see announcement.
<http://grants.nih.gov/grants/guide/pa-files/PAR-07-418.html>

Lymphatic Biology in Health and Disease (R01) (PAR-07-420)

National Heart, Lung, and Blood Institute
National Institute of Child Health and Human Development
National Institute of Diabetes and Digestive and Kidney Diseases

National Institute of Nursing Research
Application Receipt/Submission Date(s): September 28, 2007, September 18, 2008, September 18, 2009
<http://grants.nih.gov/grants/guide/pa-files/PAR-07-420.html>

Other Foundation Support



The PKD Foundation is pleased to announce the release of a Request for Applications for the Young Investigator Career Development Award

Objective: To support research in the field of Polycystic Kidney Disease by individuals who have recently completed fellowship training and hold untenured faculty positions at U.S. university institutions or affiliated medical centers.

Eligibility: Applicant must have completed research fellowship training involving polycystic kidney disease research within two years prior to the start of the grant award. Applicant must intend to pursue research directly related to polycystic kidney disease (PKD) and hold or will hold a full-time appointment to a faculty position at a U.S. university or an equivalent position as a scientist on the staff of a U.S. research-oriented institution for no more than three years prior to the start of the award. Applicant must have stellar recommendations from his fellowship mentor and from two professors to accompany his application. Recipients typically hold an appointment as an Instructor or Assistant Professor.

Level and Number of Awards: The grant is \$65,000 per year and renewable for two additional years. The total award amount is \$195,000. There will be a maximum of two of grants awarded per year, with a maximum of six awards active at any time.

RFA Release Date: July 2007

Letter of Intent: All applicants must submit a brief (1 page) Letter of Intent by **August 15, 2007**, stating his plan to submit an application for this award. This LOI is non-binding. Mail LOI to:

Attn: Amy Freaney
PKD Foundation
9221 Ward Parkway, Suite 400
Kansas City, MO 64114-3367

Deadline: Applications are due **September 1, 2007**. Funding effective July 1 of the following year or when applicant begins faculty position. For application information, go to:

http://www.pkdcure.org/site/PageServer?pagename=2007_research_younginvestigator

Letter of Intent for LAM Foundation Research Grants

The fall deadline for LAM Foundation grant proposals is September 30th. Scientists who wish to apply for LAM Foundation funding must submit a Letter of Intent (LOI), [click here to download](#). Letters of Intent for the fall deadline must reach The LAM Foundation by July 30th.

Health Policy Fellowships Database

The Kaiser Family Foundation has created a database that summarizes and links to fellowships and internships in health policy and related fields for undergraduates, graduate students, and professionals. For more information: <http://www.kaiseredu.org/fellowships/default.aspx>

NEW TSC PUBLICATIONS

Aspuria PJ, Sato T, Tamanoi F (2007) The TSC/Rheb/TOR Signaling Pathway in Fission Yeast and Mammalian Cells: Temperature Sensitive and Constitutive Active Mutants of TOR. *Cell Cycle* 2007 May 21;6(14) [Epub ahead of print]

Bruno P, Calastretti A, Priulla M, Asnaghi L, Scarlatti F, Nicolin A, Canti G (2007) Cell survival under nutrient stress is dependent on metabolic conditions regulated by Akt and not by autophagic vacuoles. *Cell Signal* 2007 Jun 28 [Epub ahead of print]

Curtis JR, Hurst E, Lee M, Sheehan DJ (2007) A true molluscum pendulum. *Int J Dermatol* 46(8):853-4

Date H, Aoe M, Nagahiro I, Shimizu N (2004) Living-donor lobar lung transplantation for lymphangioliomyomatosis. *Interact Cardiovasc Thorac Surg* 3(1):188-90

de Vries PJ, Howe CJ (2007) The tuberous sclerosis complex proteins - a GRIPP on cognition and neurodevelopment. *Trends Mol Med* 2007 Jul 12 [Epub ahead of print]

Deann Cook J, Davis BJ, Goewey JA, Berry TD, Walker CL (2007) Identification of a sensitive period for developmental programming that increases risk for uterine leiomyoma in eker rats. *Reprod Sci* 14(2):121-36

Guerra MP, Cavalleri F, Migone N, Lugli L, Delalande O, Cavazzuti GB, Ferrari F (2007) Intractable epilepsy in hemimegalencephaly and tuberous sclerosis complex. *J Child Neurol* 22(1):80-4

Ibrahim CP, Thakker P, Miller PA, Barron D (2003) Cardiac rhabdomyoma presenting as left ventricular outflow tract obstruction in a neonate. *Interact Cardiovasc Thorac Surg* 2(4):572-4

Jozwiak J, Grajkowska W, Kotulska K, Jozwiak S, Zalewski W, Zajaczkowska A, Roszkowski M, Slupianek A, Wlodarski P (2007) Brain tumor formation in tuberous sclerosis depends on erk activation. *Neuromolecular Med* 9(2):117-28

Lamouille S, Derynck R (2007) Cell size and invasion in TGF- β induced epithelial to mesenchymal transition is regulated by activation of the mTOR pathway. *J Cell Biol* 178(3):437-51

Land SC, Tee AR (2007) Hypoxia-inducible Factor 1 α is Regulated by the Mammalian Target of Rapamycin (mTOR) via an mTOR Signaling Motif. *J Biol Chem* 282(28):20534-43

Lefrou L, d'Alteroche L, Harchaoui Y, Franco D, Metman EH (2007) Peritoneovenous Shunt After Failure of Octreotide Treatment for Chylous Ascites in Lymphangioliomyomatosis. *Dig Dis Sci* 2007 Jul 20 [Epub ahead of print]

Lopiccolo J, Ballas MS, Dennis PA (2007) PTEN hamartomatous tumor syndromes (PHTS): Rare syndromes with great relevance to common cancers and targeted drug development. *Crit Rev Oncol Hematol* 2007 Jul 19 [Epub ahead of print]

Ma L, Teruya-Feldstein J, Bonner P, Bernardi R, Franz DN, Witte D, Cordon-Cardo C, Pandolfi PP (2007) Identification of S664 TSC2 Phosphorylation as a Marker for Extracellular Signal-Regulated Kinase Mediated mTOR Activation in Tuberous Sclerosis and Human Cancer. *Cancer Res* 67(15):7106-12

Madhavan D, Weiner HL, Carlson C, Devinsky O, Kuzniecky R (2007) Local epileptogenic networks in tuberous sclerosis complex: A case review. *Epilepsy Behav* 2007 Jul 3 [Epub ahead of print]

- Mhaweck-Fauceglia P, Fischer G, Alvarez V Jr, Ahmed A, Herrmann FR (2007) Predicting outcome in minimally invasive (T1a and T1b) urothelial bladder carcinoma using a panel of biomarkers: a high throughput tissue microarray analysis. *BJU Int* 2007 Jul 23 [Epub ahead of print]
- Minami K, Tambe Y, Watanabe R, Isono T, Haneda M, Isobe KI, Kobayashi T, Hino O, Okabe H, Chano T, Inoue H (2007) Suppression of Viral Replication by Stress-inducible GADD34 via the mTOR Pathway. *J Virol* 2007 Aug 1 [Epub ahead of print]
- Mirabella G, Morong S, Buncic JR, Snead OC, Logan WJ, Weiss SK, Abdolell M, Westall CA (2007) Contrast sensitivity is reduced in children with infantile spasms. *Invest Ophthalmol Vis Sci* 48(8):3610-5.
- Nakashima A, Yoshino KI, Miyamoto T, Eguchi S, Oshiro N, Kikkawa U, Yonezawa K (2007) Identification of TBC7 having TBC domain as a novel binding protein to TSC1-TSC2 complex. *Biochem Biophys Res Commun* 2007 Jul 16 [Epub ahead of print]
- Oshiro N, Takahashi R, Yoshino K, Tanimura K, Nakashima A, Eguchi S, Miyamoto T, Hara K, Takehana K, Avruch J, Kikkawa U, Yonezawa K (2007) The Proline-rich Akt Substrate of 40 kDa (PRAS40) Is a Physiological Substrate of Mammalian Target of Rapamycin Complex 1. *J Biol Chem* 282(28):20329-39
- Parisi P, Bombardieri R, Curatolo P (2007) Current role of vigabatrin in infantile spasms. *Eur J Paediatr Neurol* 2007 Jul 9 [Epub ahead of print]
- Saemundsen E, Ludvigsson P, Hilmarsdottir I, Rafnsson V (2007) Autism Spectrum Disorders in Children with Seizures in the First Year of Life-A Population-Based Study. *Epilepsia* 2007 Jun 6 [Epub ahead of print]
- Scheele JS, Marks RE, Boss GR (2007) Signaling by small GTPases in the immune system. *Immunol Rev* 218:92-101
- Schwartz RA, Fernandez G, Kotulska K, Jozwiak S (2007) Tuberous sclerosis complex: advances in diagnosis, genetics, and management. *J Am Acad Dermatol* 57(2):189-202
- Siniatchkin M, van Baalen A, Jacobs J, Moeller F, Moehring J, Boor R, Wolff S, Jansen O, Stephani U (2007) Different Neuronal Networks Are Associated with Spikes and Slow Activity in Hypsarrhythmia. *Epilepsia* 2007 Jul 21 [Epub ahead of print]
- Steagall WK, Glasgow CG, Hathaway OM, Avila NA, Taveira-Dasilva AM, Rabel A, Stylianou MP, Lin JP, Chen X, Moss J. (2007) Genetic and Morphologic Determinants of Pneumothorax in Lymphangioliomyomatosis. *Am J Physiol Lung Cell Mol Physiol* 2007 Jul 6 [Epub ahead of print]
- Takata K, Gasparetto EL, Leite Cda C, Lucato LT, Reed UC, Matushita H, Aguiar PH, Rosemberg S (2007) [Subependymal giant cell astrocytoma in patients with tuberous sclerosis: magnetic resonance imaging findings in ten cases.] *Arq Neuropsiquiatr* 65(2A):313-6 [Article published in Portuguese]
- Tatli M, Guzel A (2007) Bilateral temporal arachnoid cysts associated with tuberous sclerosis complex. *J Child Neurol* 22(6):775-9
- Tilz C, Wang-Tilz Y, Junemann A, Stefan H, Michelson G (2007) Visual field defect during therapy with valproic-acid. *Eur J Neurol* 14(8):929-32
- Urban T (2007) [Pulmonary lymphangioliomyomatosis with or without tuberous sclerosis.] *Rev Mal Respir* 24(6):725-40 [Article published in French]

Verma KK, Ovung EM, Sirka CS (2001) Extensive facial angiofibromas in tuberous sclerosis treated with carbon dioxide laserabrasion. Indian J Dermatol Venereol Leprol 67(6):326-8

Yapici Z, Dortcan N, Baykan BB, Okan F, Dincer A, Baykal C, Eraksoy M, Roach S (2007) Neurological aspects of tuberous sclerosis in relation to MRI/MR spectroscopy findings in children with epilepsy. Neurol Res 2007 Jan 16 [Epub ahead of print]

Zhou Y, Pan Y, Zhang S, Shi X, Ning T, Ke Y (2007) Increased phosphorylation of p70 S6 kinase is associated with HPV16 infection in cervical cancer and esophageal cancer. Br J Cancer. 97(2):218-22 [Epub 2007 Jul 10]

CONFERENCES AND SEMINARS

September 6-8, 2007

4th Annual World Congress of the International Brain Mapping & Intraoperative Surgical Planning Society (IBMISPS)

Washington Plaza Hotel, Washington, D.C.

Information and Registration: www.ibmisps.org

September 7-11, 2007

Joint Molecular Imaging Conference

Providence, RI

Information: <http://www.molecularimaging.org/2007jointconf/abstracts07.php>

September 20 & 21, 2007

Eyes on the Prize: Truth Telling about Genetic Testing

Washington, DC

More information and registration coming soon!

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

Online registration deadline: August 31, 2007

For more information, visit the TS Alliance website at www.tsalliance.org

October 23-27, 2007

57th Annual Meeting of the American Society of Human Genetics

San Diego Convention Center, San Diego, CA

For more information: www.ashg.org

November 3-4, 2007

Advances in Tuberous Sclerosis: From Pathway to Therapy

Sydney Children's Hospital, Randwick, NSW, Australia

For more information, contact Dr. David Mowat at d.mowat@unsw.edu.au or Dr John Lawson at John.Lawson@unsw.edu.au

November 27-29, 2007

2007 National Prevention and Health Promotion Summit

Hyatt Regency Capitol Hill

Washington D.C.

Conference Contact Information: <http://www.cdc.gov/cochp/conference/index.htm>

November 30 – December 4, 2007

American Epilepsy Society

Philadelphia Convention Center, Philadelphia, PA

For more information and to submit an abstract, go to: www.AESNET.org

TSC SIG will be held on Friday, November 30 at 1:00 pm, and stop by the TS Alliance exhibit in the Exhibit Hall!

April 4-6, 2008

LAM Foundation 2008 International Research Conference (LAMposium)

Westin Hotel, Cincinnati, OH

For more information: www.thelamfoundation.org

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

Protein Distinguishes Fetal and Adult Stem Cells

In a discovery that fills a critical gap in the understanding of stem cells, researchers have discovered a protein that fetal, but not adult, blood-forming stem cells need to replenish themselves. Finding regulatory pathways specific to fetal blood-forming cells could help scientists understand childhood leukemias and generate blood-forming cells for bone marrow transplants. This research was published in the July 26, 2007, issue of Cell by Sean J. Morrison, Ph.D., HHMI investigator at the University of Michigan Medical School. For the full story, go to:

<http://www.hhmi.org/news/morrison20070727.html>

TSC CLINICAL TRIALS AND STUDIES

A 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>

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 August 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 September 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>