



TSC ALERT

May 2007

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ABSTRACT 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

Deadline for Submission of Abstracts: July 1, 2007

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

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>

Innovative Therapies and Clinical Studies for Screenable Disorders (R21)

National Institute of Child Health and Human Development

National Institute on Deafness and Other Communication Disorders

National Institute of Diabetes and Digestive and Kidney Diseases

Letter Of Intent Receipt Date: 30 days prior to the application receipt date

Application Receipt Date: November 02, 2009

[PAR-07-184](http://www.nih.gov/grants/guide/pa-files/PAR-07-184.html)

Institutional Clinical and Translational Science Award (U54)(RFA-RM-07-007)

Letters of Intent Receipt Date: September 24, 2007

Application Receipt Date: October 24, 2008

<http://grants.nih.gov/grants/guide/rfa-files/RFA-RM-07-007.html>

Notice of Clarification of Application Instructions for NIH Director's New Innovator Award (DP2) NOT-RM-07-007

<http://grants1.nih.gov/grants/guide/notice-files/NOT-RM-07-007.html>

Multidisciplinary Clinical Research Centers (P60) (RFA-AR-07-001)

Letters of Intent Receipt Date: May 29, 2007

Application Receipt Date: June 29, 2007

<http://grants.nih.gov/grants/guide/rfa-files/RFA-AR-07-001.html>

Innovations in Biomedical Computational Science and Technology (R01) (PAR-07-344)

Letters of Intent Receipt Dates: Not applicable

Application Receipt Dates: Multiple dates, see announcement.

<http://grants1.nih.gov/grants/guide/pa-files/PAR-07-344.html>

Bioengineering Research Partnerships (BRP) [R01] (PAR-07-352)

Letters of Intent Receipt Dates: Not applicable

Application Receipt Dates: Multiple dates, see announcement.

<http://grants.nih.gov/grants/guide/pa-files/PAR-07-352.html>

Announcing the NIH Director's Bridge Awards (NOT-OD-07-056)

<http://grants.nih.gov/grants/guide/notice-files/NOT-OD-07-056.html>

Revision: Ruth L. Kirschstein National Research Service Award (NRSA) Stipend and Other Budgetary Levels Effective for Fiscal Year 2007 (NOT-OD-07-057)

<http://grants.nih.gov/grants/guide/notice-files/NOT-OD-07-057.html>

Continuation of the Extension of the NIH Pilot Study to Shorten the Review Cycle for New Investigator R01 Applications (NOT-OD-07-058)

<http://grants.nih.gov/grants/guide/notice-files/NOT-OD-07-058.html>

NOTICE: Administrative Supplements for Making Knockout Mice (NOT-HG-07-011)

<http://grants.nih.gov/grants/guide/notice-files/NOT-HG-07-011.html>

Notice of Intent to Publish a Request for Applications (RFA) for the Rare Diseases Clinical Research Consortia (NOT-OD-07-062)

National Institutes of Health

Office of Rare Diseases

<http://grants.nih.gov/grants/guide/notice-files/NOT-OD-07-062.html>

Collaborative Neurological Sciences (CNS) Award (S11) (PAR-07-357)

National Institute of Neurological Disorders and Stroke

National Institute on Alcohol Abuse and Alcoholism

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

<http://grants.nih.gov/grants/guide/pa-files/PAR-07-357.html>

National Institutes of Health Rapid Access to Interventional Development (NIH-RAID Pilot) (X01) (PAR-07-358)

NIH Roadmap Initiatives

Application Receipt/Submission Date(s): June 28, 2007; September 14, 2007; January 15, 2008;

May 15, 2008, September 15, 2008

<http://grants.nih.gov/grants/guide/pa-files/PAR-07-358.html>

George M. O'Brien Kidney Research Core Centers (P30) (RFA-DK-07-002)

National Institute of Diabetes and Digestive and Kidney Diseases

Application Receipt Date(s): November 15, 2007

<http://grants.nih.gov/grants/guide/rfa-files/RFA-DK-07-002.html>

Collaborative Studies on Systems Biology of Complex Phenotypes (R01) (RFA-GM-08-001)

National Institute of General Medical Sciences

National Institute of Environmental Health Sciences

Application Receipt Date(s): October 23, 2007

<http://grants.nih.gov/grants/guide/rfa-files/RFA-GM-08-001.html>

Global Network for Women's and Children's Health Research (U01) (RFA-HD-07-016)

National Institute of Child Health and Human Development

Application Receipt Date(s): July 27, 2007

<http://grants.nih.gov/grants/guide/rfa-files/RFA-HD-07-016.html>

NEW TSC PUBLICATIONS

Bar-Cohen Y, Silka MJ, Sklansky MS (2007) Neonatal tuberous sclerosis and multiple cardiac arrhythmias. *Circulation* 115(15):e395-7

Brandt N, Franke K, Rasin MR, Baumgart J, Vogt J, Khrulev S, Hassel B, Pohl EE, Sestan N, Nitsch R, Schumacher S (2007) The neural EGF family member CALEB/NGC mediates dendritic tree and spine complexity. *EMBO J* 2007 Apr 12 [Epub ahead of print]

Brandt-Hansen P, Solhoff R (2007) [Tuberous sclerosis complex.] *Tidsskr Nor Laegeforen* 127(7):870-873 [Article published in Norwegian]

Chapman AB (2007) Autosomal dominant polycystic kidney disease: time for a change? *J Am Soc Nephrol* 18(5):1399-407 [Epub 2007 Apr 11]

Dann SG, Selvaraj A, Thomas G (2007) mTOR Complex1-S6K1 signaling: at the crossroads of obesity, diabetes and cancer. *Trends Mol Med* 2007 Apr 20 [Epub ahead of print]

Durnian JM, Clearkin LG (2007) Retinal nerve fibre layer characteristics with vigabatrin-associated visual field loss-could scanning laser polarimetry aid diagnosis? *Eye* 2007 Mar 30 [Epub ahead of print]

Hemady N, Noble C (2007) An infant with a hypopigmented macule. *Am Fam Physician* 75(7):1053-4 <http://www.aafp.org/afp/20070401/photo.html>

Henriques-Souza AM, Ataide Junior L, Laurentino SG (2007) [Treatment of West syndrome with vigabatrin: clinical and electroencephalographic evaluation of 13 patients.] *Arq Neuropsiquiatr* 65(1):114-49 [Article published in Portuguese]

Hoyer-Hansen M, Jaattela M (2007) AMP-Activated Protein Kinase: A Universal Regulator of Autophagy? *Autophagy* 2007 Jul 5 3(4) [Epub ahead of print]

Iilina MV, Jaeggi ET, Lee KJ (2007) Neonatal rhabdomyoma causing right ventricular inflow obstruction with duct-dependent pulmonary blood flow: Successful stenting of PDA. *Catheter Cardiovasc Interv* 2007 Apr 13 [Epub ahead of print]

Ju X, Katiyar S, Wang C, Liu M, Jiao X, Li S, Zhou J, Turner J, Lisanti MP, Russell RG, Mueller SC, Ojeifo J, Chen WS, Hay N, Pestell RG (2007) Akt1 governs breast cancer progression in vivo. *Proc Natl Acad Sci U S A* 2007 Apr 25 [Epub ahead of print]

Knox S, Ge H, Dimitroff BD, Ren Y, Howe KA, Arsham AM, Easterday MC, Neufeld TP, O'Connor MB, Selleck SB (2007) Mechanisms of TSC-mediated Control of Synapse Assembly and Axon Guidance. *PLoS ONE* 2007 Apr 18 2:e375

Kobayashi S, Kishimoto T, Kamata S, Otsuka M, Miyazaki M, Ishikura H (2007) Rapamycin, a specific inhibitor of the mammalian target of rapamycin, suppresses lymphangiogenesis and lymphatic metastasis. *Cancer Sci* 98(5):726-33

Manent JB, Jorquera I, Mazzucchelli I, Depaulis A, Perucca E, Ben-Ari Y, Represa A (2007) Fetal Exposure to GABA-Acting Antiepileptic Drugs Generates Hippocampal and Cortical Dysplasias. *Epilepsia* 48(4):684-93

Pantuck AJ, Seligson DB, Klatte T, Yu H, Leppert JT, Moore L, O'Toole T, Gibbons J, Belldegrun AS, Figlin RA (2007) Prognostic relevance of the mTOR pathway in renal cell carcinoma: implications for molecular patient selection for targeted therapy. *Cancer* 2007 Apr 17 [Epub ahead of print]

Perry B, Banyard J, McLaughlin ER, Watnick R, Sohn A, Brindley DN, Obata T, Cantley LC, Cohen C, Arbiser JL (2007) AKT1 overexpression in endothelial cells leads to the development of cutaneous vascular malformations in vivo. *Arch Dermatol* 143(4):504-6

Petricoin EF 3rd, Espina V, Araujo RP, Midura B, Yeung C, Wan X, Eichler GS, Johann DJ Jr, Qualman S, Tsokos M, Krishnan K, Helman LJ, Liotta LA (2007) Phosphoprotein pathway mapping: Akt/mammalian target of rapamycin activation is negatively associated with childhood rhabdomyosarcoma survival. *Cancer Res* 67(7):3431-40

Rosner M, Hengstschlager M. (2007) Cytoplasmic/nuclear localization of tuberin in different cell lines. *Amino Acids* 2007 Apr 26 [Epub ahead of print]

Rossetti S, Harris PC (2007) Genotype-phenotype correlations in autosomal dominant and autosomal recessive polycystic kidney disease. *J Am Soc Nephrol* 2007 May 18(5):1374-80 [Epub 2007 Apr 11]

Samadani U, Judkins AR, Akpalu A, Aronica E, Crino PB (2007) Differential cellular gene expression in ganglioglioma. *Epilepsia* 48(4):646-53

Schiavina M, Di Scioscio V, Contini P, Cavazza A, Fabiani A, Barberis M, Bini A, Altimari A, Cooke RM, Grigioni WF, D'Errico-Grigioni A (2007) Pulmonary Lymphangiomyomatosis in a Karyotypically Normal Man Without Tuberous Sclerosis Complex. *Am J Respir Crit Care Med* 2007 Apr 12 [Epub ahead of print]

Soulard A, Hall MN (2007) SnapShot: mTOR Signaling. *Cell* 129(2):434

Tzatsos A, Tsiachlis PN (2007) Energy depletion inhibits phosphatidylinositol 3-kinase/Akt signaling and induces apoptosis via AMP-activated protein kinase-dependent phosphorylation of IRS-1 at Ser794 *J Biol Chem*. 2007 Apr 25 [Epub ahead of print]

van den Hombergh P, Veeken H (2007) [Diagnostic image (315). A mentally retarded woman with facial skin lesions] *Ned Tijdschr Geneeskd* 151(11):641 [Article published in Dutch]

Wang C, Mao X, Wang L, Liu M, Wetzell MD, Guan KL, Dong LQ, Liu F (2007) Adiponectin sensitizes insulin signaling by reducing p70 S6 kinase-mediated serine phosphorylation of IRS-1. *J Biol Chem* 282(11):7991-6 [Epub 2007 Jan 22]

Weir E, Cohen M (2007) A 48-year-old woman with lymphangioliomyomatosis. CMAJ 176(9):1271-2

CONFERENCES AND SEMINARS

May 10, 2007; 5:00 – 7:00 PM

LAM/TSC Seminar Series

SPEAKERS: Celeste Simon, PhD and Lief Ellison, MD, PhD

The HIF1 Signaling Pathway and Therapeutic Targets Relevant to LAM/TSC

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

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

June 18-19, 2007

Depression & Anxiety Conference

Crowne Plaza Hotel - The City, London, UK

Book online at <http://www.smi-online.co.uk/goto/depressionanxiety.asp?emref=T72ER91694257&>

Alternatively, contact Andrew Hinton on tel +44 (0) 20 7827 6722 or email ahinton@smi-online.co.uk

June 24-26, 2007

Epileptology: Comprehensive Review and Practical Exercises

Renaissance Quail Hollow Resort, Painesville, OH

For more information: www.clevelandclinicmeded.com/Epiletology07

June 27-29, 2007

17th International Cleveland Clinic Epilepsy Symposium: Epilepsy Surgery

InterContinental Hotel & Bank of America Conference Center, Cleveland, OH

For more information: www.clevelandclinicmeded.com/EpilSurg07

September 6-8, 2007

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

Washington Plaza Hotel, Washington, D.C.

Deadline for submission of abstracts: June 30, 2007

Information and Registration: www.ibmisps.org

September 7-11, 2007

Joint Molecular Imaging Conference

Providence, RI

Deadline for submission of abstracts: May 15, 2007

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

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

Deadline for Submission of Abstracts: July 1, 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

Deadline for submission of abstracts: June 7, 2007

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

Deadline for Submission of Abstracts: June 4, 2007

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

September 11-14, 2008

International TSC Conference

Organized by the Tuberous Sclerosis Association, U.K.

Brighton, U.K. More information coming soon!

NEWS

Elizabeth Petri Henske, M.D. Receives the Society for Women's Health Research Medtronic Prize for Scientific Contributions to Women's Health

Elizabeth Petri Henske, M.D., a member of the TS Alliance Board of Directors, Professional and International Scientific Advisory Boards, received the second annual "Society for Women's Health Research Medtronic Prize for Scientific Contributions to Women's Health" at the Society's gala event at the Ritz Carlton, Washington, DC on April 30, 2007. The Medtronic Prize is a \$75,000 award that encourages women to work on issues uniquely related to women's health, and rewards women scientists and engineers in mid-career who have devoted a significant part of their work to this area and have served as a role model and mentor for both colleagues and students. Dr. Henske, a tenured, senior member of Fox Chase Cancer Institute in Philadelphia, PA, was nominated by both the Tuberous Sclerosis Alliance and the LAM Foundation for her outstanding research on the role of the tuberous sclerosis complex (TSC) genes in lymphangiomyomatosis (LAM). Congratulations, Lisa!

U.S. House Passes Genetic Information Non-discrimination Act

The U.S. House of Representatives passed the Genetic Information Non-discrimination Act on the afternoon of National DNA Day by a vote of 420-3. The U.S. Senate will now consider the legislation, versions of which it had previously approved unanimously in the last two Congresses. President Bush has also expressed the need for this federal protection against discrimination in health care and employment based on genetics.

 [Read the Statement of Administration Policy](#)

 [Visit the Genetic Information Nondiscrimination Act of 2007 Web Page](#)

A Genetic "Gang of Four" Drives Spread of Breast Cancer

Studies of human tumor cells implanted in mice have shown that the abnormal activation of four genes drives the spread of breast cancer to the lungs. The new studies by Howard Hughes Medical Institute researchers reveal that the aberrant genes work together to promote the growth of primary breast tumors. Cooperation among the four genes also enables cancerous cells to escape into the bloodstream and penetrate through blood vessels into lung tissues. Although shutting off these genes individually can slow cancer growth and metastasis, the researchers found that turning off all four together had a far more dramatic effect on halting cancer growth and metastasis. This research was published in the April 12, 2007, issue of *Nature* by Joan Massagué, Ph.D., HHMI investigator at Memorial Sloan-Kettering Cancer Center. For the full story, go to:

<http://www.hhmi.org/news/massague20070412.html>

Seeing the Brain in a New Light

Researchers have devised a clever way to activate neurons in a living mouse by shining light on the surface of the animal's brain. The "light switch" that turns neurons on is actually a light-sensitive protein that is produced by algae. When this protein is genetically engineered into the neurons of living mice, researchers can precisely trigger those neurons with light, causing them to generate electrical impulses. The scientists who developed the new method believe it will change how researchers map the function of brain circuits in living animals. This research was published in the April 19, 2007, 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/ehlers20070419.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.easycqi.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 May 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 June 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>