



Research Administration Newsletter

Volume 1, Number 6

October 9, 2006

Funding Opportunities

Loan Repayment Programs (LRPs)

The National Institutes of Health (NIH) is now accepting online applications for its five Loan Repayment Programs (LRPs).

Through these programs, the NIH offers to repay up to \$35,000 annually of the qualified educational debt of health professionals pursuing careers in biomedical and behavioral research. The programs also provide coverage for Federal and state tax liabilities.

To qualify, applicants must possess a doctoral-level degree, devote 50% or more of their time (20 hours per week based on a 40-hour work week) to research funded by a domestic non-profit organization or government entity (Federal, state, or local), and have educational loan debt equal to or exceeding 20% of their institutional base salary. Applicants must also be U.S. citizens, permanent residents, or U.S. nationals to be eligible.

All applications for 2007 awards must be submitted online by 8:00 p.m. EST, December 1, 2006.

For an online application, program information, or other assistance, visit the LRP Web site at <http://www.lrp.nih.gov/>, telephone the Help desk at 866-849-4047, or send email inquiries to lrp@nih.gov.

Manufactured Nanomaterials: Physico-chemical Principles of Biocompatibility and Toxicity (R01)

The objective of this Funding Opportunity Announcement is to support research that will identify the physico-chemical properties of manufactured nanoscale materials that support biocompatibility and thus protect public health. This knowledge will be directly applicable to responsible development of manufactured nanoscale materials for industry and consumer products as well as medical devices and therapeutics.

Click link for details:
<http://grants.nih.gov/grants/guide/rfa-files/RFA-ES-06-008.html>

Near-Term Technology Development for Genome Sequencing (R01)

The National Human Genome Research Institute (NHGRI) solicits grant applications to develop novel technologies that will substantially reduce the cost of genomic DNA sequencing. Current technologies are able to produce the sequence of a mammalian-sized genome of the desired data quality for \$5 to \$10 million; the goal of this initiative is to reduce costs by at least two orders of magnitude. As some technologies that have potential to achieve this goal are already in or near the commercial market, applications to this FOA will need to show clear advantage over current and emerging technologies.

Click link for details:
<http://grants.nih.gov/grants/guide/rfa-files/RFA-HG-06-015.html>
For R21:
<http://grants.nih.gov/grants/guide/rfa-files/RFA-HG-06-016.html>
For R21/R33:
<http://grants.nih.gov/grants/guide/rfa-files/RFA-HG-06-017.html>

Revolutionary Genome Sequencing Technologies – The \$1000 Genome (R01)

The National Human Genome Research Institute (NHGRI) solicits grant applications to develop novel technologies that will enable extremely low-cost DNA sequencing. Current technologies are able to produce the sequence of a mammalian-sized genome of the desired data quality for \$5 to \$10 million; the goal of this initiative is to reduce costs by at least four orders of magnitude, so that a mammalian-sized genome could be sequenced for approximately \$1000. Substantial fundamental research is needed to develop the scientific and technological knowledge underpinning such a major advance. Therefore, it is anticipated that the long-term goals of this FOA may be achieved in about ten years.

Click link for details:
<http://grants.nih.gov/grants/guide/rfa-files/RFA-HG-06-020.html>
For R21:
<http://grants.nih.gov/grants/guide/rfa-files/RFA-HG-06-021.html>
For R21/R33:
<http://grants.nih.gov/grants/guide/rfa-files/RFA-HG-06-022.html>

ATTENTION TENURE TRACK INVESTIGATORS

The Ester A. & Joseph Klingenstein Fund Invites Applications for Their Fellowship Awards in Neurosciences for 2007 for a better understanding of epilepsy with particular interest in Cellular and Molecular Neuroscience, Neural Systems and Clinical Research.

Eligibility Requirements:

- Must be a permanent resident of the United States
- Must hold a Ph.D. and/or M.D. degree
- Must currently be on TENURE TRACK, but not yet holding tenure

Up to 10 Awards of \$150,000 payable over a three year period.

Interested candidates should submit their CV and brief summary of your proposal to **Gigi Petrovich**, gpetrov@usc.edu in the Office of Scientific Affairs, no later than **November 1, 2006**.

Application Deadline is December 8, 2006

For complete application guidelines please visit their website at www.klingfund.org

Articles

TOP 25, April – June 2006

In Ophthalmology

#15 PTAMD Study Group; Friberg TR, Musch DC, **Lim JI**, Morse L, Freeman W, Sinclair S. Prophylactic treatment of age-related macular degeneration report number 1: 810-nanometer laser to eyes with drusen. Unilaterally eligible patients. *Ophthalmology*, Volume 113, Issue 4, 1 April 2006, Pages 622.e1.

In Progress in Retinal and Eye Research

#6 Costa RA, Skaf M, Melo LAS, Calucci D, Cardillo JA, Castro JC, **Huang D**, Wojtkowski M. Retinal assessment using optical coherence tomography. *Progress in Retinal and Eye Research*, Volume 25, Issue 3, 1 May 2006, Pages 325-353.

#18 Carelli V, **Ross-Cisneros FN**, **Sadun AA**.

Mitochondrial dysfunction as a cause of optic neuropathies. *Progress in Retinal and Eye Research*, Volume 23, Issue 1, 1 January 2004, Pages 53-89.

In Journal of Cataract and Refractive Surgery

#14 Cionni RJ, **Tsai JH**. Color perception with AcrySof Natural and AcrySof single-piece intraocular lenses under photopic and mesopic conditions. *Journal of Cataract & Refractive Surgery*, Volume 32, Issue 2, 1 February 2006, Pages 236-242.

In Experimental Eye Research

#15 Qiu G, Stewart JM, **Sadda S**, Freda R, Lee S, Guven D, de Juan E, Varner SE. A new model of experimental subretinal neovascularization in the rabbit. *Experimental Eye Research*, Volume 83, Issue 1, 1 July 2006, Pages 141-152.

#17 Gamulescu MA, Chen Y, **He S**, **Spee C**, Jin M, **Ryan SJ**, **Hinton DR**. Transforming growth factor @b"2-induced myofibroblastic differentiation of human retinal pigment epithelial cells: Regulation by extracellular matrix proteins and hepatocyte growth factor. *Experimental Eye Research*, Volume 83, Issue 1, 1 July 2006, Pages 212-222.

MOST CITED thru September

#5 Lopez PF, Sippy BD, Lambert HM, Thach AB, **Hinton DR**. Transdifferentiated retinal pigment epithelial cells are immunoreactive for vascular endothelial growth factor in surgically excised age-related macular degeneration-related choroidal neovascular membranes. *Investigative Ophthalmology and Visual Science*. Volume 37, Issue 4, 1 April 1996, Pages 855-868.

Doheny News

New Pending Proposals

PI: James Weiland, Ph.D.

Funding Agency: NIH/STTR 2nd Sight Subcontract

Title: Hermetic Nanowire Interconnects for Neural Prosthesis

Publications

1. Wu ZQ, **Lim JI**, **Sadda SR**. Axial length: A risk factor for cataractogenesis. *Annals Academy of Medicine Singapore*. 2006;35:416-419.
2. Doan T, Mendez A, Detwiler PB, **Chen J**, Rieke F. Multiple phosphorylation sites confer reproducibility of the rod's single-photon responses. *Science*. 2006;313:530-533.
3. Ratanapakorn T, **Ameri H**, **Humayun MS**, **Weiland JD**. Enucleated eye model for intraocular retinal prosthesis implantation. *Ophthalmic Surgery Lasers & Imaging*. 2006;37:341-343.
4. Read RW, Fei Y, Accorinti M, Bodaghi B, Chee SP, Fardeau C, Goto H, Holland GN, Kawashima H, Kojima E, Lehoang P, Lemaitre C, Okada AA, Pivetti-Pezzi P, Secchi A, See RF, Tabbara KF, Usui M, **Rao NA**. Evaluation of the effect on outcomes of the route of administration of corticosteroids in acute Vogt-Koyanagi-Harada disease. *American Journal of Ophthalmology*. 2006;142:119-124.

5. Paz SH, **Varma R**, Klein R, Wu J, **Azen SP**. Noncompliance with vision care guidelines in Latinos with type 2 diabetes mellitus - The Los Angeles Latino Eye Study. *Ophthalmology*. 2006;113:1372-1377.
6. **Saraswathy S, Wu GS, Rao NA**. Retinal microglial activation and chemotaxis by docosahexaenoic acid hydroperoxide. *Investigative Ophthalmology & Visual Science*. 2006;47:3656-3663.
7. Savini G, Bellusci C, Carbonelli M, Zanini M, Carelli V, **Sadun AA**, Barboni P. Detection and quantification of retinal nerve fiber layer thickness in optic disc edema using stratus OCT. *Archives Of Ophthalmology*. 2006;124:1111-1117.
8. **Sreekumar PG, Kannan R**, de Silva AT, Burton R, **Ryan SJ, Hinton DR**. Thiol regulation of vascular endothelial growth factor-A and its receptors in human retinal pigment epithelial cells. *Biochemical and Biophysical Research Communications*. 2006;346:1200-1206.
9. **Varma R**, Deneen J, Cotter S, Paz SH, **Azen SP, Tarczy-Hornoch K**, Zhao P. The multi-ethnic pediatric eye disease study: Design and methods. *Ophthalmic Epidemiology*. 2006;13:253-262.
10. Cotter SA, **Varma R**, Ying-Lai M, **Azen SP**, Klein R. Causes of low vision and blindness in adult Latinos. *Ophthalmology*. 2006;113:1574-1582.
11. Haire SE, Pang JJ, Boye SL, Sokal I, **Craft CM**, Palczewski K, Hauswirth WW, Semple-Rowland SL. Light-driven cone arrestin translocation in cones of postnatal guanylate cyclase-1 knockout mouse retina treated with AAV-GC1. *Investigative Ophthalmology & Visual Science*. 2006;47:3745-3753.
12. **Khurana RN, LaBree LD**, Scott G, **Smith RE, Yiu SC**. Esterified estrogens combined with methyltestosterone raise intraocular pressure in postmenopausal women. *American Journal of Ophthalmology*. 2006;142:494-495.
13. O'Hearn TM, **Sadda SR, Weiland JD**, Maia M, Margalit E, **Humayun MS**. Electrical stimulation in normal and retinal degeneration (rd1) isolated mouse retina. *Vision Research*. 2006;46:3198-3204.

DEI/USC Ophthalmology Publications Citing RPB	
Year	Number of Articles
2005	32
2004	35
2003	21
2002	25
2001	21

NIH Announcements

Correction to Budget Formats on RFA-EB-06-003

The purpose of this notice is to clarify and correct application instructions for the budget format for the RFA EB-06-003 (<http://grants.nih.gov/grants/guide/rfa-files/RFA-EB-06-003.html>) which was released in the *NIH Guide for Grants and Contracts* on August 24, 2006.

Applications from U.S. institutions/organizations requesting greater than \$250,000 in total direct costs in any budget year and all applications from foreign organizations should prepare a detailed budget using the Research & Related Budget form. Applications from U.S. institutions/organizations requesting up to \$250,000 per year in direct costs must be submitted in a modular budget format on the PHS398 Modular Budget form.

Click link for details:

<http://grants.nih.gov/grants/guide/notice-files/NOT-EB-06-009.html>

Capitol Hill Watch|House Energy and Commerce Committee To Consider Bill That Would Reauthorize NIH

The [House Energy and Commerce Committee](#) on Wednesday plans to consider a bill that would reauthorize NIH for the first time since 1993, [CQ HealthBeat](#) reports (Carey, *CQ HealthBeat*, 9/19). Reauthorization would allow lawmakers to make structural and administrative changes to NIH in addition to those made indirectly through approval of the agency budget (*Kaiser Daily Health Policy Report*, 7/20/05). Under the legislation, the NIH budget would increase by 5% annually for fiscal years 2007 through 2009. The bill also would establish a "common fund" to subsidize research that involves multiple NIH institutes or centers. In addition, the legislation would establish a review board to examine the structure of NIH and would require the agency to implement an electronic system to track



RPB Citing on Publications

Every year, we like to remind faculty and researchers to cite and credit Research to Prevent Blindness (RPB) on all publications that received support from them.

The table reflects the number of DEI/USC Ophthalmology publications that cited RPB within the past five years.

research grants and other actions (*CQ HealthBeat*, 9/19). The bill likely will reach the House Floor for a vote next week (Lee, *CongressDaily*, 9/20).

Click link for details:

http://www.kaisernetwork.org/daily_reports/rep_index.cfm?DR_ID=39920

Other Resources



Textual Similarity Search Engine: An Alternative to Pub Med

[eTBLAST](#) is a unique search engine for searching biomedical literature. Their service is very different from PubMed. While PubMed searches for "keywords", their search engine lets you input an entire **paragraph** and returns MEDLINE abstracts that are **similar** to it. This is something like PubMed's "Related Articles" feature, only better because it runs on **your** unique set of interests.

Click link for details:

<http://invention.swmed.edu/etblast/index.shtml>



[Time to Renew Your Membership](#)

[NEI/FDA Ophthalmic Clinical Trial Design and Endpoints Meeting](#)

[2009 Asia-ARVO Meeting Call for Proposals–Deadline October 20, 2006](#)

[View the Latest Vision Events](#)

[NAEVR Issues Quarterly E-ZINE to Capitol Hill Highlighting NEI Research](#)

[NIH Seeks Comments on Proposed Genetic Information Repository](#)

[Other Meetings](#)

[Resources](#)

Cold Spring Harbor Protocols (CSH Protocols) a new, interactive online methods database is available on a trial basis through October 2, 2006. The database currently features 600 protocols in cell and molecular biology, genetics, protein science, imaging, and bioinformatics, and will be continuously expanded, updated, and annotated by the authors and users of the techniques. CSH Protocols is fully searchable by author and subject with a unique taxonomy for browsing, and many features that can be customized by users.

Visit [CSH Protocols](http://www.cshprotocols.org/) online at: <http://www.cshprotocols.org/> and direct any comments on this resource to Maggie Wineburgh-Freed, (323) 442-1973 or mwfreed@usc.edu.

A copy of each Newsletter is available in Outlook's Public Folder/Research Administration

If you would like to be removed from or add someone to the distribution list and/or have any suggestions for this Newsletter, please email Cathy Lee at clee@doheny.org