



NOVEMBER 2005

Office of Education, Division of Intramural Research National Heart, Lung, and Blood Institute **FELLOWS NEWSLETTER**

The Fellows Newsletter is published monthly by the Office of Education, Division of Intramural Research, National Heart, Lung and Blood Institute and distributed to NHLBI DIR members to promote the interest of DIR Fellows.

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From the Director of the Office of Education

The Fellows Advisory Committee is very busy planning events for NHLBI fellows.

Our Career Development Seminars speaker this month, on Tuesday, November 8th is Dr. Martin Frank, Executive Director of the American Physiological Society. Dr. Frank started his career as a Physiology faculty member, but then moved to the NIH Extramural Program before assuming his current position at APS in 1985.

The Fellows Retreat will be held once again at Harbortowne Resort in St. Michaels, MD on April 27-28, 2006. Our Keynote speaker will be Dr. J. Craig Venter, former NIH Scientist who developed expressed sequence tags (ESTs). He left NIH to found The Institute for Genomic Research (TIGR) where he pioneered the whole genome shotgun technique, later applied to the Human genome after his move to Celera Genomics. Our Scientific Speaker is Dr. Stuart Orkin, a Howard Hughes Medical Institute investigator at Children's Hospital and Dana Farber Cancer Institute where his research concerns how commitment to specific lineages is programmed and cell-specific patterns of gene expression are established in hematopoietic stem cells.

We invite all NHLBI fellows to participate in our activities, either by volunteering to help organize them or through your input to the Fellows Advisory Committee.

Career Transition Awards

Dr. Herbert M. Geller, Director, Office of Education

Career Transition Awards are designed to assist NIH fellows seeking Academic positions. These programs provide for fellowship support while at NIH, and startup money at their new place of employment. The major program at NIH is the K22 program, which is currently open to U.S. Citizens and Permanent Residents (though changes are being discussed which would make all Fellows eligible). Another program is the GRIP program, administered by the Fogarty International Center, that allows for 5 years of grant funding for Fellows

who obtain an Academic Position in a developing country. However, there are three new Career Transition Award programs that allow for Visiting Fellows from Germany, France or Flanders to receive training at NIH as a Visiting Fellow and then have money to start up their own lab once they return home.

Germany

The NIH-DFG (Deutsche Forschungsgemeinschaft) (German Research Foundation) "Research Career Transition Awards Program, is now beginning it's second cycle of applicants. The purpose of this program is to enable young scientists to pursue research in two phases (2-3 years at an NIH institute in the USA and 2-3 years at

Lenfant Fellowship Winners Present Seminars



NHLBI Scientific Director Dr. Robert Balaban congratulates Lenfant Fellowship winners Drs. George Stan, Hai-Hui Xue, and Tae-young Roh after their seminars to DIR on October 24 in Lipsett Auditorium. Dr. Julie Donaldson chairs the Lenfant Fellowship review committee.

a research institution in Germany) over a consecutive period of five to six-years. This program is open to young, qualified German researchers who have received their doctorate within four years prior to proposal submission. For the first phase (at NIH), the NIH will provide a visiting fellows stipend as well as travel expenses to the US (up to a maximum of US\$2,000 for fellows and their dependents). In addition, the DFG will fund up to four trips to Germany, enabling the researcher to prepare the second phase of the project. During the second phase of the project (in Germany), the DFG will fund the researcher's position in Germany and will provide €30,000 in direct project costs for a two-year period. A renewal proposal may be submitted for an additional year of funding.

France

NIH and Inserm sponsor the "European Research Career Transition and Faculty Development Awards". This is also in two phases, which will total five years. For the first phase (at NIH), the NIH will provide a visiting fellows stipend as well as travel expenses to the US (up to a maximum of \$2,000 for fellows and their dependents).

During the second year, all awardees will take part in a European conference, for the purpose of presenting their work and of renewing their contact with the European community. In the third and final year at NIH, the awardees will submit a research proposal to Inserm, including a plan for their return to France. For phase 2, the awardees will be included, after evaluation of their project, in one of Inserm's programs for young researchers, i.e. Avenir contract, Young researchers contracts, etc. This program is dedicated in priority to researchers (Ph.D.'s or MD's) at the end of their thesis who are considering a first post-doctoral stay or to those starting a second post-doctorate.

Flanders

NIH and the Flemish Government are sponsoring the "Flemish Career Transition and Faculty Development Awards". This is also in two phases, which will total five - six years. For the first phase (at NIH), the NIH will provide a visiting fellows stipend as well as travel expenses to the US (up to a maximum of \$2,000 for fellows and their dependents). During the second year, all awardees will take part in a European

conference, for the purpose of presenting their work and of renewing their contact with the European community. In the third and final year at NIH, the awardees will submit a research proposal to Inserm, including a plan for their return to France. For phase 2, the awardees will be provided funds to initiate their own laboratory in a Flanders University.

While these programs are optimally designed for those just finishing their Ph.D., fellows from these countries can apply for the return portion of the program. If you are interested, please contact Dr. Geller in the Office of Education. In addition, we are exploring ways to extend these programs to other countries. If you are a Visiting Fellow who believes such a program would be good for your country, provide the name of the Science or Education contact at your Embassy to Dr. Geller, who will follow up.

Take 10 Room Opens in Bldg. 10



All Fellows are invited to "Take 10" in Room 2N238 in Building 10, pictured above. The room is equipped with an exercise bicycle, elliptical trainer, weights, exercise balls and mats. Sign up on the NHLBI intranet to reserve time or to enter the contest to win prizes as you maintain your health.

New NHLBI Fellows



Dr. Sylvain Cecchini recently joined the Laboratory of Biochemical Genetics under the supervision of Dr. Robert Kotin as a Visiting Fellow. He recently completed his Ph.D. in Radiobiology at the University of Sherbrooke, Québec, Canada. He is working on combining his interests in radiotherapy with gene therapy strategies in the Kotin Lab.



Dr. Yuji Miura joined the Hematology Branch under the supervision of Dr. Adrian Weistner as a Research Fellow. Dr. Miura received his M.D. from Toyama Medical and Pharmaceutical College, School of Medicine, Japan in 1993. He then earned his Ph.D. from Kanazawa University Graduate School of Medicine, Japan in 1999. His research focuses on lymphoid malignancy, especially CLL (chronic lymphocytic leukemia) with a goal to cure patients with CLL by gene targeting or immunologic method.



Mr. Anthony Panzera joined the Laboratory of Cell Biology under the supervision of Dr. Lois Greene as a Postbaccalaureate IRTA Fellow. Mr. Panzera earned his B.S. in Biology and Society from Cornell University, Ithaca, New

York. He is working on cellular trafficking and the mechanisms by which abnormal prions invoke cellular changes.



Dr. Arun Samidurai joined the Pulmonary Critical Care Medicine Branch under the supervision of Dr. Vincent Manganiello as a Visiting Fellow. Dr. Samidurai received his M.Sc. in Biochemistry from University of Madras, Chennai, India in 1999. He is completing his Ph.D. at Justus Liebig University, Giessen, Germany. He will continue his work on signal transduction.



Dr. Efstathia Tzatha has joined the NHLBI as a Fellow in the laboratory of Dr. Roderick Pettigrew, the head of the National Institute of Biomedical Imaging and BioEngineering. She completed her M.D. from the National and Capodistrian University of Athens Medical School, Greece in 2004. She's working on targeted imaging of early atherosclerosis in apolipoprotein E deficient mice.



Dr. Yelena Shmist recently joined the Laboratory of Molecular Cardiology under the supervision of Dr. Robert Adelstein as a Visiting Fellow.

Dr. Shmist received her M. Md. Sc. from Ben Gurion University Medical School, Beer-Sheva, Israel. She completed her Ph.D. at Bar-Ilan University, Ramat Gan, Israel. Her research will focus on studies of the effects of knocking out myosin expression in cell physiology.



Dr. Zhong Zhao joined the Laboratory of Cell Biology under the supervision of Dr. Edward Korn as a Postdoctoral Fellow. He received his M.D. from Beijing University, where he was trained in Urology. He received his Ph.D. in 2005 from the University of Massachusetts. Dr. Zhao will be working on signal transduction pathways in chemotaxis.



Dr. Li Zhi joined the Cardiovascular Branch under the supervision of Dr. Paul Huang as a Postdoctoral Fellow. She received her Medical training in China, where she specialized in Cardiology. She received her Ph.D. in 2005 from the University of Massachusetts. She will be working on the proteomic analysis of cardiovascular diseases.

Recent Publications by NHLBI Fellows

Al-Shami A., Spolski R., Kelly J., Keane-Myers A. and Leonard W. J. (2005) A role for TSLP in the development of inflammation in an asthma model. *J. Exptl. Med.* **202**, 829-839.

Calmels B., Ferguson C., Laukkanen M. O., Adler R., Faulhaber M., Kim H. J., Sellers S., Hematti P., Schmidt M., von K. C., Akagi K., Donahue R. E. and Dunbar C. E. (2005) Recurrent retroviral vector integration at the Mds1/Evi1 locus in nonhuman primate hematopoietic cells. *Blood* **106**, 2530-2533.

Dries D. L., Victor R. G., **Rame J. E.**, Cooper R. S., Wu X. D., Zhu X. F., Leonard D., Ho S. I., Wu Q. Y., Post W. and Drazner M. H. (2005) Corin gene minor allele defined by 2 missense mutations is common in blacks and associated with high blood pressure and hypertension. *Circulation* **112**, 2403-2410.

Elshal M. F., Khan S. S., **Takahashi Y.**, Solomon M. A. and McCoy J. P. (2005) CD146 (Mel-CAM), an adhesion marker of endothelial cells, is a novel marker of lymphocyte subset activation in normal peripheral blood. *Blood* **106**, 2923-2924.

Ganesh S. K. and Nabel E. G. (2005) Genomics of in-stent restenosis - Early insights

Come to the Career Development Seminars

Next Seminar:

Tuesday, November 8th,
12:00 Noon, 7S235

Martin Frank, PhD
Executive Director
American Physiological Society

will speak on

Careers- It's Not All Academic

into a complex disease. *Circulation* **112**, 2378-2379.

Helm P. A., Tseng H. J., Younes L., McVeigh E. R. and Winslow R. L. (2005) Ex vivo 3D diffusion tensor imaging and quantification of cardiac laminar structure. *Magn. Reson. Med.* **54**, 850-859.

Hoorn E. J., Hoffert J. D. and Knepper M. A. (2005) Combined proteomics and pathways analysis of collecting duct reveals a protein regulatory network activated in vasopressin escape. *J. Am. Soc. Nephrol.* **16**, 2852-2863.

Kim H. P., Kim B. G., Letterio J. and Leonard W. J. (2005) Smad-dependent cooperative regulation of interleukin 2 receptor alpha chain gene expression by T cell receptor and transforming growth factor-beta. *J. Biol. Chem.* **280**, 34042-34047.

Lee D. W., Zhao X. H., **Zhang F.**, Eisenberg E. and Greene L. E. (2005) Depletion of GAK/auxilin 2 inhibits receptor-mediated endocytosis and recruitment of both clathrin and clathrin adaptors. *J. Cell Sci.* **118**, 4311-4321.

Lee D. Y., Rhee S. G., Ferretti J. and Gruschus J. M. (2005) H-1, N-15, and C-13 chemical shift assignments of the human Sulfiredoxin (hSrx). *J. Biomolec. NMR* **32**, 339.

Mcleod C. J., Aziz A., Hoyt R. F., McCoy J. P. and Sack M. N. (2005) Uncoupling proteins 2 and 3 function in concert to augment tolerance to cardiac ischemia. *J. Biol. Chem.* **280**, 33470-33476.

Raval A. N. and Lederman R. J. (2005) Real-time magnetic resonance imaging to guide pediatric endovascular procedures. *Pediat. Cardiol.* **26**, 251-259.

Sconocchia G., Provenzano M., **Rezvani K.**, **Li J. M.**, Melenhorst J., Hensel N. and Barrett A. J. (2005) CD34+ cells cultured in stem cell factor and interleukin-2 generate CD56+ cells with antiproliferative effects on tumor cell lines. *J. Translat. Med.* **3**.

Srinivasan R., Balow J. E., Sabnis S., **Lundqvist A.**, **Igarashi T.**, **Takahashi Y.**, Austin H., Tisdale J., Barrett J., Geller N. and Childs R. (2005) Nephrotic syndrome: an under-recognized immune-mediated complication of non-myeloablative allogeneic haematopoietic cell transplantation. *Brit. J. Haematol.* **131**, 74-79.

Wlodarski M. W., O'Keefe C., Howe E. C., **Risitano A. M.**, **Rodriguez A.**, Warshawsky I., Loughran T. P. and Maciejewski J. P. (2005) Pathologic clonal cytotoxic T-cell responses: nonrandom nature of the T-cell-receptor restriction in large granular lymphocyte leukemia. *Blood* **106**, 2769-2780.

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Volunteer for the Fellows Advisory
Committee