



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

I recently attended the Society for Neuroscience meeting in Atlanta, where I ate lunch with two of my former graduate students, both of whom are now gainfully employed; one as an Assistant Professor in a basic science department of a Medical School and the other as a scientist with a major Pharmaceutical Firm. Aside from the usual reminiscing, I was interested to learn what characteristics had enabled them to succeed in obtaining the jobs that they wanted, and if any were due to my mentoring. Surprisingly, both of them pointed to one thing that I had taught them, but not deliberately: when faced with going the safe route or making a risky choice, it seemed that I had most often opted for taking the risk. And it seems that they have incorporated this into some of their own behavior. Another was my habit of insisting that they go to seminars and interact with the speakers and other attendees. While we now have a formal name for this activity ("networking" – see the Matt Wolfe interview below), it is always to one's advantage to increase their circle of friends and colleagues. The result was that both of these students went on to successful postdoctoral positions with scientists that they met through these opportunities.

The Office of Education sponsors many different activities, the major goal of which is to increase your interaction with others at NHLBI and at NIH. One never knows when these contacts will turn out to be useful, but there is no doubt that some of them will be exceedingly so. So the next time you see a flyer for an activity, seminar, or workshop, don't just focus on how attending may or may not add value to your current set of experiments. Instead, think about how it might be a good time to practice networking.

Fellows - One Year Later: Matt Wolfe, Schafer Corp.

Interviewed by
Jessica M. Llewellyn

In continuation of our monthly column on successful NHLBI Alumni, I interviewed Matt Wolfe. Dr. Wolfe was a former member of Dr. Thressa Stadtman's Laboratory of Biochemistry from 2001 to 2005. After leaving the NHLBI, Dr. Wolfe took a

position as a Senior Scientist in the Technology Management Division of Schafer Corporation in Arlington, VA, a government contracting firm that provides technology management support. His time is split between program management and new concept development. "We determine what the customer needs and try to figure out how technology can address the need. We find the types of researchers necessary and integrate various technologies to

solve customer's problems. The company manages technical programs of which I could never have dreamed." Matt had the following responses to my questions:

JL: *What was the hardest thing about transitioning from being a fellow to being a senior scientist at the Schafer Corporation?*

MW: The most difficult transition for me was going from a totally independent research environment to working as part of a team - working together with a lot of people on the same project. It was also difficult to move from the government to a private industry, as now there is more focus on budgets and costs rather than just research."

JL: *What advice do you have for fellows wanting to transition to a private corporation?*

MW: "Network, network, network, network. It's something scientists don't often do and aren't used to doing. It's especially important if you're not going into a laboratory research position. When you're trying to break into management, you have to have some contacts."

JL: *What was the best thing about your fellowship at NIH?*

MW: Having the freedom to pursue my own ideas. Terry always told me to "follow your nose", which in my case, could take a while [laughs]. But, I think it's a great lesson. Leave no stone unturned.

JL: *What skills did you need to successfully perform at your present job that you wish you had acquired during your training years?*

MW: I wish I'd had more exposure to a greater variety of technologies, thinking further out into the future. It is extremely important to understand the future implications of technology. For example, Nanotechnology. When I was a fellow at the NIH, biology and medicine viewed nanotechnology with tunnel vision. I would have liked to branch out and do more with it. Use it in novel ways. Although the NIH does already think outside of the box, it is important to do this even more so to promote broader thinking in technology and with its applications.

JL: *What gets you through the day?*

MW: Coffee! [laughs] But really it's accomplishing small goals. Completing little tasks throughout the day instead of always being concerned with the big question. That can get overwhelming.

JL: *Any other advice you would like to impart to the fellows at NHLBI?*

MW: Never limit the scope of the jobs you apply for. You can always turn a job down. Apply for a wide variety of positions. You may have come to NIH with one career in mind, but there are a lot of interesting jobs out there you may never thought you would like. In addition, take advantage of the network you already have. Follow up with any friends, relatives, former coworkers, and poke around. You never know what you might find."

For more information about this type of position, or to send a greeting, Dr. Wolfe can be contacted at mwolfe@schafermd.com.

Jessica's Corner

This month, I have been having a hard time dealing with the concept of success. What is it exactly? Is it getting the best grade in a course or on a test? Is it experiments that succeed on the first try? Is it FINALLY mastering a program that has taken six months of frustration? Sure it is. But I'm coming to the realization that success is more than just grades, research, and programs. It's inner peace and satisfaction, and knowing that whatever will be, will be. Yes, you have to work hard to get it, but you also have to realize what it means to you individually. For me, it's seeing that spark in someone else because of my actions -whether or not I have finally been able to bake that cake for my coworkers or knowing that the kids I babysit are going to turn out alright. Heck, it's even having my cat go potty in the right place!

I believe that in life, there are always two approaches to achieving that sense of success and happiness. You can scream, cry, and make life unpleasant OR you can take a breath and try again. Unfortunately, I don't always do option b, but I'm working on it. Fortunately, there are people smarter than me, who are filled with inspiration and motivation. As you attempt to achieve success, try to keep these ideas in mind:

"Nothing can stop the man with the right mental attitude from achieving his goal; nothing on earth can help the man with the wrong mental attitude." - *Thomas Jefferson, 3rd US President*

"Success is the good fortune that comes from aspiration, desperation, perspiration and inspiration." - *Evan Esar, American Humorist*

"The talent of success is nothing more than doing what you can do, well." - *Henry W. Longfellow, Author*

"The thing always happens that you really believe in; and the belief in a thing makes it happen." - *Frank Lloyd Wright, Architect*

New NHLBI Fellows



Xingmin Feng, Ph.D. is a Visiting Fellow in the Hematological Branch under the mentorship of Dr. Neal Young. He received his Ph.D. from the Kanazawa University Graduate School of Medical Science in Japan. While at the NHLBI, Dr.

Feng will be working on FOXP3 expression in aplastic anemia.



Shigehito Yamada, M.D., Ph.D. is a Visiting Fellow in the Laboratory of Developmental Biology under the supervision of Dr. Cecilia Lo. He received his M.D. and Ph.D. in Medical Sciences from Kyoto University in Japan. Dr.

Yamada will be working on imaging hum embryo while at the NHLBI.



Ermanno Puxeddu, M.D. is a Visiting Fellow in the PCCMB under the mentorship of Dr. Joel Moss. He received his M.D. in Medicine and Surgery from L'Universita degli Studi di Perugia, Italy. While at the NHLBI, Dr. Puxeddu will be

working on ARF family of protein and BIG proteins.



Eiki Yamasaki, Ph.D. is a Visiting Fellow in the PCCMB under the supervision of Dr. Joel Moss. He received his Ph.D. in Biochemistry from Kyushu University in Japan. While at the NHLBI, Dr. Yamasaki will be working on the protease ARH2

and its substrates.

Recent Publications by NHLBI Fellows

Barrett, A. J. & **Savani, B. N.** (2006). Stem cell transplantation with reduced-intensity conditioning regimens: a review of ten years experience with new transplant concepts and new therapeutic agents. *Leukemia* 20, 1661-1672.

Clauss, S. B., **Walker, D. L.**, Kirby, M. L., Schimel, D., & Lo, C. W. (2006). Patterning of coronary arteries in wildtype and Connexin43 knockout mice. *Dev. Dyn.* 235, 2786-2794.

Fu, Y. M., Zhang, H., Ding, M. J., **Li, Y. Q.**, Fu, X., Yu, Z. X., & Meadows, G. G. (2006). Selective amino acid restriction targets mitochondria to induce apoptosis of androgen-independent prostate cancer cells. *J. Cell. Physiol.* 209, 522-534.

Gallazzini, M., Ferraris, J. D., **Kunin, M.**, **Morris, R. G.**, & Burg, M. B. (2006). Neuropathy target esterase

catalyzes osmoprotective renal synthesis of glycerophosphocholine in response to high NaCl. *Proc. Natl. Acad. Sci. U. S. A* 103, 15260-15265.

Gladwin, M. T., Raat, N. J. H., **Shiva, S.**, Dezfulian, C., Hogg, N., Kim-Shapiro, D. B., & Patel, R. P. (2006). Nitrite as a vascular endocrine nitric oxide reservoir that contributes to hypoxic signaling, cytoprotection, and vasodilation. *Am. J. Physiol. Heart Circ. Physiol.* 291, H2026-H2035.

Joe, Y. S., **Jeong, J. H.**, Yang, S., **Kang, H.**, Motoyama, N., Pandolfi, P. P., Chung, J. H., & **Kim, M. K.** (2006). ATR, PML, and CHK2 play a role in arsenic trioxide-induced apoptosis. *J. Biol. Chem.* 281, 28764-28771.

Kelly, J. A., Paronto, K., Spolski, R., Al-Sharmi, A., & Leonard, W. (2006). Stat5 overexpression results in

immature CD8+T-cell expansion and lymphoma. *J. Immunol.* 176, S180-S181.

Klada, J. B., Brooks, B. R., & Pastor, R. W. (2006). Dynamical motions of lipids and a finite size effect in simulations of bilayers. *J Chem Phys* 125.

Lepore, A. C., **Neuhuber, B.**, Connors, T. M., Han, S. S. W., Liu, Y., Daniels, M. P., Rao, M. S., & Fischer, I. (2006). Long-term fate of neural precursor cells following transplantation into developing and adult CNS (vol 139, pg 513, 2006). *Neuroscience* 142, 285-+.

Li, J., Melenhorst, J., Hensel, N., **Rezvani, K.**, **Sconocchia, G.**, **Kilical, Y.**, Hou, J., Curfman, B., Major, E., & Barrett, A. J. (2006). T-cell responses to peptide fragments of the BK virus T antigen: implications for cross-

reactivity of immune response to JC virus. *J. Gen. Virol.* 87, 2951-2960.

Li, T. W., Santockyte, R., Shen, R. F., Tekle, E., Wang, G. H., Yang, D. C. H., & Chock, P. B. (2006). A general approach for investigating enzymatic pathways and substrates for ubiquitin-like modifiers. *Arch. Biochem. Biophys.* 453, 70-74.

Liu, X., **Shu, S.**, Hong, M. S. S., Levine, R. L., & Korn, E. D. (2006). Phosphorylation of actin Tyr-53 inhibits filament nucleation and elongation and destabilizes filaments. *Proc. Natl. Acad. Sci. U. S. A* 103, 13694-13699.

Ma, H. T., Lin, W. W., Zhao, B., Wu, W. T., Huang, W., Li, Y., Jones, N. L., & Kruth, H. S. (2006). Protein kinase C beta and delta isoenzymes mediate cholesterol accumulation in PMA-

activated macrophages. *Biochem. Biophys. Res. Comm.* 349, 214-220.

Shizukuda, Y., Bolan, C. D., Tripodi, D. J., Yau, Y. Y., Nguyen, T. T., Botello, G., Sachdev, V., Sidenko, S., Ernst, I., Waclawiw, M. A., Leitman, S. F., & Rosing, D. R. (2006). Significance of left atrial contractile function in asymptomatic subjects with hereditary hemochromatosis. *Am. J. Cardiol.* 98, 954-959.

Sloand, E. M., Yong, A. S. M., **Ramkissoon, S., Solomou, E., Bruno, T. C., Kim, S., Fuhrer, M., Kajigaya, S., Barrett, A. J., & Young, N. S.** (2006). Granulocyte colony-stimulating factor preferentially stimulates proliferation of monosomy 7 cells bearing the isoform IV receptor. *Proc. Natl. Acad. Sci. U. S. A* 103, 14483-14488.

Wang, J. H., He, L. S., Combs, C. A., Roderiquez, G., & Norcross, M. A. (2006). Dimerization of CXCR4 in living malignant cells: control of cell migration by a synthetic peptide that reduces homologous CXCR4 interactions. *Mol. Cancer Ther.* 5, 2474-2483.

Zeng, R., Spolski, R., Casas, E., Levy, D. E., & Leonard, W. J. (2006). An IL-21 receptor tyrosine is critical for IL-21-induced proliferation and the activation of Stat1 and Stat3. *J. Immunol.* 176, S14.

Zheng, G., Ghosh, K., **Chen, Z., & Li, Z.** (2006). Extreme rank selections for linkage analysis of quantitative trait loci using selected sib-pairs. *Ann. Hum. Genet.* 70, 857-866.

Come to the next

Career Development Seminar

Tuesday, November 14th
Noon, 10/7S235

Featuring

Jenifer Smith, Ph.D.

Section Chief of Intel Analysis, FBI

Come to the next

Fellows Science and Social Hour

Thursday, November 16th
Noon, 10/7S235

Featuring presentations
from the

Hematology Branch

**Speakers have been chosen for the Next NHLBI DIR Annual Fellows Retreat
April 19- 20, 2007, Hilton Wilmington, Delaware**

Keynote Speaker: William A. Hasletine, President, Haseltine Associates, Ltd.

Scientific Speaker: George Yancopoulos, President, Regeneron Pharmaceuticals, Inc.

Don't miss it!