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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 immensely enjoyed this year's Fellows Retreat, and the responses on the evaluation form indicate that fellows felt the same way. Dr. Balaban was also impressed by the program and your response to it. The two main speakers, Dr. Yancopoulos and Dr. Leshner, were outstanding. The fellows poster presentations were all at an extremely high level of achievement, and it was extremely difficult to pick winners. The career development talks were very well-received. In addition, the entertainment on Thursday night was a real treat. We all owe a great deal to the Fellows Advisory Committee and Jessica Llewellyn for making this all possible.

The Office of Education needs your input and feedback as to the types of programs you would like us to sponsor. The responses on the evaluation form indicated that many fellows would like to see more activities that promote networking. In response, the Fellows Advisory committee is planning more events, both scientific and social, that will enhance your experience here. However, we'd also like to hear from those fellows who did not attend the retreat. For that reason, you will soon be getting a questionnaire in your mailbox. You can either print it and send it back to us anonymously via campus mail, or you can return it via e-mail. We thank you in advance for your participation in this survey.

The NHLBI Fellows Retreat: the Highlight of MY NHLBI year.

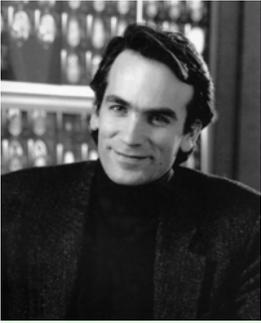
by
Mark McDermott, Ph.D.

Could it have been the very highlight of the NIH research year? Undoubtedly, the National Heart, Lung and Blood Institute's Fifth Annual Fellows Retreat was nothing short of sensational! It was so good that I almost didn't want to come home. Seriously, I can't believe they paid me to go to it. The event

showcase the awesome work presently going on within the institute. It even gave me a ton of new ideas to help me with my research and more collaborators than you could shake a stick at.

To be completely honest, I am really busy right now. I didn't know if I would be able to make it to the retreat. I am writing a grant and a paper; just moved a lab; work 36 hour days; had a wedding planned and have 16 hungry mouths to feed. (Okay – maybe I don't have 16 mouths to feed, but you know what I mean). It was going to take a lot

McVeigh Wins Best Mentor 2007



Dr. Elliot McVeigh, Laboratory of Cardiac Energetics was chosen as the Winner of the 2007 Fellows Award for Research

Mentoring. Dr. McVeigh came to the NIH in 1999 from Johns Hopkins University. In a brief interview about his award winning mentoring style, our winner had the following to say:

JL: How do you feel about winning this award?

EM: Absolutely terrific. I really enjoy mentoring students and post-docs. It's the best part of this job!

JL: Is there anyone you would particularly like to thank for this award?

EM: I'd like to thank all my students for this award – they are joy to work with.

JL: Do you have any other advice for other mentors hoping to win the next mentoring award?

EM: Give students a lot freedom to explore their own ideas as opposed to defining precisely what they should do.

Nominations for the the Fellows Award for Research Mentoring are solicited from all active NHLBI fellows once a year. A committee of fellows then evaluates the nominations and contacts present and past fellows of the nominees for their input.

We congratulate Dr. McVeigh, who joins Drs. Robert Adelstein, Jim Sellers, Cindy Dunbar, Lance Pohl and Rodney Levine as winners of this award.

to get me to go to that meeting. I remember Dr. Geller telling me about the great speakers and people I would meet at the retreat. He told me that it would be one of the best experiences for me at NHLBI. I was not disappointed.

The keynote speakers were amazing. Dr. Alan Leshner, was one. He's the Chief Executive Officer for the Association for the Advancement of Science – you know - the guy that publishes Science magazine? He gave a fascinating and very entertaining talk about science and society, which touched on many topics of great current interest including stem cell research and global warming as well as discussing such age old questions as the relationship between science and religion in society.

The scientific talk was given by Dr. George Yancopoulos, one of the world's most cited scientists during the 1990's and Chief Scientific Officer of Regeneron Pharmaceuticals. Dr. Yancopoulos discussed some of the awesome research his company is currently doing including the use of Traps, soluble decoy receptors, engineered by fusing two distinct receptor components and the FC region of an antibody molecule. These act to block the effects of cytokines, interleukins and growth factors and are currently in clinical studies studying their effects on inflammation and angiogenesis. He also discussed the incredibly high throughput "Velocigene" method of knocking out mice genes which they have used to identify the next angiogenesis target-delta like ligand 4 (Dll4), and their \$240 million dollar mouse which they have engineered to produce fully human monoclonal antibodies.

We were watching masters at work, speakers of a lifetime. You just don't get speakers of that caliber speaking at such intimate venues. I'm surprised we didn't have a struggle to stop members from other institutes from crashing this awesome retreat!

Throw a few top notch NHLBI Fellows talks into that mix, a quality career development session, and representatives from every core facility on campus and you're onto a guaranteed winner. I think it's been the talk of the campus ever since, with potential speakers for next year's retreat already lined up. Many thanks also to Ms. Jessica Llewellyn for organizing the retreat. She quite literally played the crowd, whipping them in to a veritable frenzy during the awards session.

I'll look forward to seeing the Office of Education crew, the Fellows Advisory Committee and you there next year for what promises to be another sell out science spectacular.

Mark McDermott is a new Research Fellow in the Laboratory of Kidney and Electrolyte Metabolism.



New NHLBI Fellow



Lizzie Santiago, Ph.D. is the newest post-doc in the Developmental Neurobiology Section under the supervision of Dr. Herbert Geller. Dr. Santiago received her Ph.D. in chemical engineering from Penn State University and was a postdoctoral fellow at the University of Pittsburgh. While at the NHLBI, Dr. Santiago will be working on optical methods to monitor signal transduction in neurons.

Fellows Award Winners



Congratulations to the winners of our Fellows Retreat Research Awards. This year, awards were given to two post-doctoral fellows in basic and clinical research, one predoctoral fellow, and one post-baccalaureate fellow for their presentations. Congratulations to Drs. Steven Yee (Laboratory of Molecular Physiology), Amar Sethi (Vascular Medicine Branch), Ms. Rozalina Grubina (Vascular Medicine Branch), and Mr. Alexander Lin (Laboratory of Cardiac Energetics) for a job well done! Each poster was evaluated for content and presentation by a committee consisting of Tenure Track Investigators and members of the Fellows Advisory Committee.

Dr. Yee's winning poster was entitled, "The Pathologic Role of the Innate Immune System in Acetaminophen-Induced Liver Disease in Interleukin-13 Deficient Mice," and was co-authored by M. Bourdi, M.J. Masson, L.R. Pohl from the Laboratory of Molecular Immunology. Dr. Sethi's poster was co-authored by J.A. Stonik, S.J. Demosky, and A.T. Remaley from the Vascular Medicines Branch and was entitled, "Complexation of an ApoA-I Mimetic Peptide with Phospholipid Increases ABCA1-specific Cholesterol Efflux."

In addition, Mr. Lin's winning predoctoral poster, entitled "Mapping 2D Strain in the wall of the carotid artery using displacement-encoded MRI," was co-authored with E. Bennett, L. Wisk, M. Gharib, S. Fraser, and H. Wen. Lastly, Ms. Grubina's winning poster, co-authored with Z. Huang, M. S. Joshi, S. Basu, D. B. Kim-Shapiro, M. T. Gladwin was entitled "Concerted Nitric Oxide Formation and Release from the Simultaneous Reactions of Nitrite with Deoxy- and Oxy-Hemoglobin."

Jessica's Corner

Boy-oh- boy what a month we've had Fellow Fellows! With preparing for the Summer Internship Program and creating a fabulous retreat, our office has been working non-stop! I hope you all had just as great a time as I did in Gettysburg. It was wonderful to meet so many new people and finally put a face to all the names I've seen tons of times. I am looking forward to the next one and I hope that you are too! Next time in a new location, with even more fellows and a longer karaoke madness session! Retreat #6 is going to be quite the mix!

As awesome as April was, May promises to be almost as hectic - but in a good way. Get ready for the arrival of our summer students who are all excited for science and anxious to meet you! To help with this meet and greet, our office, in conjunction with the Fellows Advisory Committee will be planning a ton of social events. And let me tell you folks, there is nothing I like more than a social event! So let me know what you want to do and I'll do my best to make it happen!

Of course you know, I can't just let the column end without giving you a little inspiration for the month. Don't laugh, but I've been listening to a lot of 70's musicals lately - particularly *Pippin*. It puts a smile on my face and a little spring in my step - despite my daily obstacles. If you can, I suggest that you rent it. Enjoy :)

***"Oh - It's time to start living. Time to take a little from the world we're given.
Time to take time, for spring will turn to fall - in just no time at all."***

Recent Publications by NHLBI Fellows

Che, Y., Brooks, B. R., Riley, D. P., Reaka, A. J. H., & Marshall, G. R. (2007). Engineering metal complexes of chiral pentaazacrowns as privileged reverse-turn scaffolds. *Chem. Biol. Drug Des.* 69, 99-110.

Chen, Y., Schnetz, M. P., Irarrazabal, C. E., Shen, R. F., Williams, C. K., Burg, M. B., & Ferraris, J. D. (2007). Proteomic identification of proteins associated with the osmoregulatory transcription factor TonEBP/OREBP: functional effects of Hsp90 and PARP-1. *Am. J. Physiol. Renal Physiol.* 292, F981-F992.

Jobsis, P. D., Rothstein, E. C., & Balaban, R. S. (2007). Limited utility of acetoxymethyl (AM)-based intracellular delivery systems, in vivo:

interference by extracellular esterases. *J. Microsc.* -Oxford 226, 74-81.

Kang, S. G., Brown, A. L., & Chung, J. H. (2007). Oxygen tension regulates the stability of insulin receptor substrate-1 (IRS-1) through caspase-mediated cleavage. *J. Biol. Chem.* 282, 6090-6097.

Kuroda, F., Moss, J., & Vaughan, M. (2007). Regulation of brefeldin A-inhibited guanine nucleotide-exchange protein 1 (BIG1) and BIG2 activity via PKA and protein phosphatase 1 gamma. *Proc. Natl. Acad. Sci. U. S. A.* 104, 3201-3206.

Shiva, S., Huang, Z., Grubina, R., Sun, J. H., Ringwood, L. A., MacArthur, P. H., Xu, X. L., Murphy, E., rley-Usmar, V. M., & Gladwin, M.

T. (2007). Deoxymyoglobin is a nitrite reductase that generates nitric oxide and regulates mitochondrial respiration. *Circul. Res.* 100, 654-661.

Sloand, E. M., Pfannes, L., Chen, G. B., Shah, S., Solomou, E. E., Barrett, J., & Young, N. S. (2007). CD34 cells from patients with trisomy 8 myelodysplastic syndrome (MDS) express early apoptotic markers but avoid programmed cell death by up-regulation of antiapoptotic proteins. *Blood* 109, 2399-2405.

Woodcock, H. L., Moran, D., Brooks, B. R., Schleyer, P. V., & Schaefer, H. F. (2007). Carbene stabilization by aryl substituents. Is bigger better? *J. A. C. S.* 129, 3763-3770.

Come to the next
Career Development Seminar!

May 15th @ Noon
10/7S235A

Presentation on
"Dealing with Conflict"