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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

This issue leads off with an article by Dr. Lee Ann Cohen about our September Career Development Seminar which was incredibly insightful about the subject of Community College Teaching. It was clear from this seminar that Community Colleges are providing increasingly high-quality education for students who would otherwise not be able to attend college. Many of these students ultimately get their B.S. degree and so a career in this area can be very rewarding. In addition, enrollment is growing, and there are increasing opportunities for Fellows to obtain teaching experience. Our October speaker will talk about a career as a technical services representative, while later speakers will talk about careers as an overseer of pharmaceutical standards, bioethics, and scientific writing. These are all held at noon on the third Tuesday of each month.

We will soon open registration for the **Fellows Retreat** in downtown **Annapolis, Maryland**, on **March 13-14, 2008**. Scientific speakers will include Dr. Napoleone Ferrara, a Genentech Fellow, and Dr. Katherine High, Professor of Pediatrics and Howard Hughes Investigator, University of Pennsylvania and Children's Hospital of Philadelphia whose research is in the area of gene therapy. Our after dinner speaker will be Dr. Nina Federoff, who has just taken the position of Science Advisor to the Secretary of State. In addition, we are planning a tour of Annapolis, the state capital. It is home to the United States Naval Academy as well as the current capital building, which was in use at the time of George Washington becoming the first American President. Finally, we will have an option for Fellows to bring their spouse to the retreat, at an additional cost. More information will be forthcoming, so keep an eye on your e-mail.

A Community College Teaching Career

By
Lee Cohen, Ph.D.

As part of last month's NHLBI/NIDDK Career Development Seminar Series, Dr. Barbara G. Hoberman, Head of the Biology

Department at Montgomery College, visited NIH to discuss how careers in teaching at a community college have changed over the last ten years. Dr. Hoberman has been a member of the faculty at the Rockville Campus of Montgomery College (MC) for the last 14 years. She came to Montgomery College from George Washington

University (GWU) where she was an Associate Professor at the medical school. She took a year long sabbatical from GW after the birth of her daughter, and when she became bored and restless from staying at home, a friend suggested taking an adjunct position at MC. It was this experience that hooked her on community college teaching. The difference was that instead of teaching to medical students who needed to learn the material as a way to achieve their next already determined step, she found herself confronted with young students from varied backgrounds who she could help as they started their career, helping them realize that they can get through her course and are capable of pursuing a career in science.

As rewarding as it can be, we were warned that the wide variety of educational backgrounds for students at open enrollment institutions like MC, can sometimes create frustration for teachers as some students struggle with deficiencies in language skills or math that can make it hard for them to master the material.

Community college education is rapidly changing as the price of education at traditional 4 year colleges continues to climb. Community colleges can offer quality education toward the first two years of a four year degree at a fraction of the cost. This can allow good students to get started in college while minimizing the amount of debt they take on. For this reason, the enrollment at community colleges has increased over the last ten years. Dr. Hoberman stated that 46% of all undergraduate students are community college students. Enrollment at Montgomery College's three campuses

is around 26,000 students, which is second only to University of Maryland - College Park in the state of Maryland. As the demand for affordable quality education increases, so does the need for quality educators. The days of where a master's degree qualified someone to teach science courses in community college course are disappearing, as schools like MC look to invest in quality educators who have PhDs and backgrounds in research science. They are looking to attract such faculty by offering opportunities to keep some research going on the side, as well as offering opportunities for their faculty to travel to conferences and encouraging them to stay in touch with their research backgrounds. Teaching at a community college can be a good career option for post-docs who are interested and committed to teaching. MC will be looking to recruit faculty in the coming years as the current faculty retires. They also hire a number of adjunct faculty each semester, providing a part time position to fellows who are looking to get some teaching experience. For more information, consult the MC employment page available on its website:

jobs.montgomerycollege.edu.

If you are looking for more career options or opportunities, the Office of Education, in conjunction with the NIDDK's Fellowship Office, offers a monthly seminar series on Career Alternatives. These occur on the Third Tuesday of every month – watch for the e-mails.

Dr. Lee Cohen is a postdoctoral fellow in the Laboratory of Cell Biology under the mentorship of Dr. Julie Donaldson. She is also an active member of the

Jessica's Corner

Ah yes October: my favorite month. In general, the weather is pretty nice and temperate; students have settled into their school years; and Halloween is right around the corner!

That's right - I still make time to dress up in a silly costume and go trick or treating. My favorite thing to do is go out and dance to none other than Michael Jackson's "Thriller", and eat as much candy as I can around this time! I also take the time to volunteer with as many Halloween-themed charities/ events as I can - especially ones dealing with kids.

Life comes at you hard and constantly demands your attention, focus and pursuit of success. You're always up and down - succeeding and failing - and being pulled in a million different directions. It's down right maddening! So every now and then we ALL need to take time to reconnect with that sense of wonder and youthful exuberance that we used to have. It's what keeps us all young at heart and productive - and sane.

If you are in need of some serious Halloween fun, I would definitely encourage you to look into some of the fine family friendly events that the DC metro area has to offer. My personal favorites include:

- * **Fright Fest at Six Flags**
- * **Boo at the Zoo (the National Zoo)**
- * **Ghost Tours around the DC Area**
- * **Nightmare on M Street in Georgetown**

While you're doing all of these fun and spooky events, DO keep my Halloween theme song in your head:

*"Cause This Is Thriller, Thriller Night/
And No One's Gonna Save You From The
Beast About Strike/ You Know It's Thriller
(He He!) Thriller Night/ You're Fighting
For Your Life Inside A Killer, Thriller/
Tonight"*

New NHLBI Fellows



Raja Jothi, Ph.D. is a research fellow in the Laboratory of Molecular Immunology under the mentorship of Dr. Keji Zhao. He received his Ph.D. in Computer Science from the University of Texas at Dallas, Texas. He will be working on bioinformatics while at the NHLBI.



Bum Chan Park, Ph.D., is a Research Fellow in the Laboratory of Cell Biology under the mentorship of Dr. Lois Greene. He received his Ph.D. in microbiology from Chungnam National University in Korea. While at NHLBI, he will be working on membrane trafficking.



Jean Chen Kuo, Ph.D. is a visiting fellow in the Laboratory of Cell and tissue Morphodynamics under the mentorship of Dr. Clare Waterman. She received her Ph.D. in molecular medicine from the National Taiwan University in Taipei, Taiwan. She will be working on the functional characterization of focal adhesion maturation while at the NHLBI.



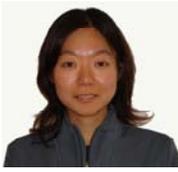
Xavier Roussett, Ph.D. is a recent addition to the Pulmonary and Vascular Medicine Branch under the mentorship of Dr. Alan Remaley. He received his Ph.D. from the University Pierre & Marie Curie in Paris, France. While at the NHLBI, Dr. Roussett will be working on lipoproteins and their metabolism.



Rebecca Lopez, Ph.D. is a new fellow in the Hematology Branch under the mentorship of Dr. Rick Childs. She received her Ph.D. in Microbiology from the University of Wisconsin. While at the NHLBI, Dr. Lopez will be studying cancer immunology and autoimmunity.



Ingo Thievensen, Ph.D. is a visiting fellow in the Laboratory of Cell and Tissue Morphodynamics under the mentorship of Dr. Clare Waterman. He received his Ph.D. in molecular medicine from the Max-Planck Institute of Biochemistry in Martinsried, Germany. While at the NHLBI, Dr. Thievensen will be working on integrin/ matrix interactions in endothelial cells.



Yukako Nishimura, Ph.D. is a visiting fellow in the laboratory of Dr. Clare Waterman. She received her Ph.D. in cell biology from the University of Tokyo. While at NHLBI, Dr. Nishimura will be working on cytoskeleton and cell migration.



Olga Vasality, Ph.D., is a recent addition to the imaging Probe Development Center under the mentorship of Dr. Gary Griffiths. She received her Ph.D. in chemistry from the University of Texas at Dallas. While at the NHLBI, Dr. Vasality will be working on developing probes for MRI and optical imaging.

**Come to the next
Career Development Seminar
Tuesday, October 16th @ 12 Noon
10/13S235B**

**Featuring
"Biomedical Services Representative Careers"**

**Leena K. Paul, Ph.D.
Amara Biosystems**

Recent Publications by NHLBI Fellows

- bd-Elmoniem, K. Z., **Sampath, S.**, Osman, N. F., & Prince, J. L. (2007). Real-time monitoring of cardiac regional function using FastHARP MRI and region-of-interest reconstruction. *IEEE Trans Biomed Eng* 54, 1650-1656.
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- Che, Y.**, Brooks, B. R., & Marshall, G. R. (2007). Protein recognition motifs: Design of peptidomimetics of helix surfaces. *Biopolymers* 86, 288-297.
- Ciaccio, E. J., **Ashikaga, H.**, Kaba, R. A., Cervantes, D., **Hopenfeld, B.**, Wit, A. L., Peters, N. S., McVeigh, E. R., Garan, H., & Coromilas, J. (2007). Model of reentrant ventricular tachycardia based on infarct border zone geometry predicts reentrant circuit features as determined by activation mapping. *Heart Rhythm* 4, 1034-1045.
- Gidvani, V., **Ramkissoon, S.**, Sloand, E. M., & Young, N. S. (2007). Cytokine gene polymorphisms in acquired bone marrow failure. *Am. J. Hematol.* 82, 721-724.
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- Kim, H. P.** & Leonard, W. J. (2007). CREB/ATF-dependent T cell receptor-induced FoxP3 gene expression: a role for DNA methylation. *J. Exp. Med.* 204, 1543-1551.
- Negrete, A.**, Ling, T. C., & Lyddiatt, A. (2007). Production of adenoviral vectors and its recovery. *Process Biochem.* 42, 1107-1113.
- Sharma, S. K.** & Nirenberg, M. (2007). Silencing of genes in cultured *Drosophila* neurons by RNA interference. *Proc. Natl. Acad. Sci. U.S.A.* 104, 12925-12930.
- Sloand, E. M., Read, E. J., **Scheinberg, P.**, Tang, Y., More, K., Leitman, S. F., Maciejewski, J., & Young, N. S. (2007). Mobilization, collection, and immunomagnetic selection of peripheral blood CD34 cells in recovered aplastic anemia patients. *Transfusion* 47, 1250-1253.
- Wu, W. W.**, **Wang, G.**, **Yu, M. J.**, Knepper, M. A., & Shen, R. F. (2007). Identification and quantification of basic and acidic proteins using solution-based two-dimensional protein fractionation and label-free or O-18-labeling mass spectrometry. *J. Proteome Res.* 6, 2447-2459.
- Yong, A. S. M.**, **Rezvani, K.**, **Savani, B. N.**, Eniafe, R., **Mielke, S.**, Goldman, J. M., & Barrett, A. J. (2007). High PR3 or ELA2 expression by CD34(+) cells in advanced-phase chronic myeloid leukemia is associated with improved outcome following allogeneic stem cell transplantation and may improve PR1 peptide-driven graft-versus-leukemia effects. *Blood* 110, 770-775.
- Zheng, W. J.**, Brooks, B. R., & Hummer, G. (2007). Protein conformational transitions explored by mixed elastic network models. *Proteins-Struct. Funct. and Bioinform.* 69, 43-57.