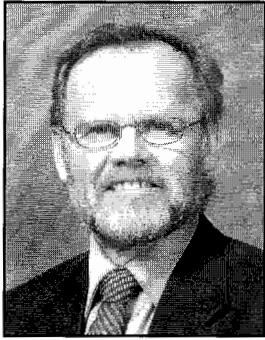

UNIVERSITY OF
Nebraska
Medical Center

**PATH/MICRO.EDU
NEWSLETTER**

May, June, July – 2004
Issue 26

James Booth Receives Golden Apple



(Jim Booth, Ph.D.)

Dr. James Booth, Associate Professor in the Department of Pathology and Microbiology and Year Two Core Director, is this year's recipient of the Golden Apple Award. The award is presented each year by the local AMSA (American Medical Student Association) chapter to M1 and M2 faculty members who, in the students' opinion, have excelled in

educational endeavors. The award is one of the highest teaching awards that a faculty member can receive.

Dr. Booth is a major contributor to the educational programs on campus and continues to accumulate awards and recognition. We congratulate him on an outstanding job and for receiving another tribute to his accomplishments.

Allied Health Receives HRSA Grant

The Career Advancement through Distance Education Technology (CADET) Project HRSA grant proposal from the School of Allied Health Professions has been funded in the amount of \$470,048 over a three year period. Karen Nichols, MS, RT(R)(M) (Primary Investigator) and Linda Fell, MS, MT (ASCP) (Co-Project Director) will lead efforts to provide access and opportunity for medical laboratory personnel (MLTs) to earn their B.S. degree in medical technology with required laboratory components at their site of employment, and diagnostic imaging technologists (RTs and NMTs) to earn their B.S. degree in radiation science technology from UNMC. These technologists will be able to complete their degrees, while they continue to live and work in their own communities, through distance education courses online.



(Karen Nichols, RSTE & Linda Fell, MS, MT (ASCP))

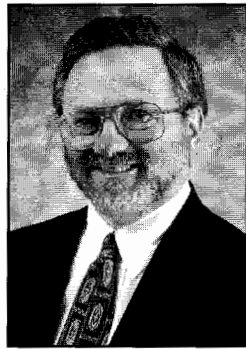
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The degree completion programs will be available regionally and nationally. The SAHP and the RSTE Divisions currently deliver several courses online and continue to add course offerings to the online curriculum. Karen Honeycutt, MEd, MT(ASCP) is directing the adaptation of medical technology curriculum for delivery online in this project.

Letter from the Chair

Change seems to be the only constant, bringing with it challenges and opportunities. New faculty, new residents, new fellows and new students to start a new academic year. Moves to new buildings, moves to old buildings, laboratory redesigns, new equipment, and new technologies.



(Dr. Sam Cohen)

New research center, new addition to the hospital, new clinics and facilities to be built in west Omaha, along with designs for additional new research and education buildings for the main campus in the near future. New science. Truly an exciting time at UNMC and in the world of biomedical research, education, and clinical service.

In addition to all of these more common changes, a member of our department, Dr. Howard E. Gendelman, has been named Chair of the Department of Pharmacology at UNMC, to be effective September 1. His move to a new department will also carry with it many of the members of the Center for Neurovirology and Neurodegenerative Disorders (CNND) from our department. Howie and the other faculty at the CNND have been highly productive in research, and undoubtedly, this will continue in this new arrangement. We wish Howie and his colleagues continued success.

While this change is occurring, new faculty, Drs. Paul Dunman and Kai Fu, are joining the department, and additional recruitments are underway. We are pleased also to have three new residents in Pathology, along with a new hematopathology fellow, and additional graduate students and post-doctoral fellows. Continuing growth of the clinical and anatomical laboratories, Regional Laboratory, the state public health laboratory and biological and chemical terrorism preparedness programs have also increased the need for additional individuals in the department.

The strength of the department is entirely dependent upon the individuals in it, and it was exciting to celebrate their numerous accomplishments of this past year with a departmental picnic held at the Henry Doorly Zoo. As Chair, it is gratifying and exciting to see the accomplishments and growth of the faculty and others in the department as well as to recruit new individuals with their vitality, enthusiasm and challenges.

Grants Awarded:

Nora Chapman, Ph.D., Inhibiting Demyelination by Immunization Using Cocksackievirus Vectors. Awarded by: Creighton University. 4/1/04 – 3/31/05 - \$39,247.

Howard Gendelman, M.D., Blood Brain Barrier Physiology and HIV Dementia. Awarded by: DHHS/NIH/NINDS. 7/1/04 – 6/30/05 - \$376,454.

Howard Gendelman, M.D., Immunopathogenesis of HIV Neurological Disorders: Project 2: Monocyte Immunity and HIV-1 Induced Dementia. Awarded by: NIH through the University of Puerto Rico. 10/1/03 – 9/30/2004 - \$119,719.

Howard Gendelman, M.D., Experimental Therapeutic Strategies for ALS. Awarded by: NIH through Columbia University (NY). 1/1/2004 – 12/31/2004 - \$82,586.

Howard Gendelman, M.D., Neural Immunity in HIV Dementia. Awarded by: DHHS/NIH/NINDS. 5/1/2004 – 4/30/2005 - \$1,203,933.

Anuja Ghorpade, Ph.D., Astrocyte Activation, Fas Ligand and HIV-1 Dementia. Awarded by: DHHS/NIH/NINDS. 4/1/2004 – 3/31/2005 - \$209,475.

Steven Hinrichs, M.D., Nebraska Bioterrorism Plan, Focus Area D, Laboratory Capacity – Chemical Agents. Awarded by: Nebraska DHHS. 8/31/2003 – 9/30/2004 - \$218,593.

Steven Hinrichs, M.D., State Preparedness Critical Infrastructure Grant Program. Awarded by: Nebraska Emergency Management Agency (NEMA). 5/10/2004 – 3/31/2005 - \$948,380.

Thomas Jerrells, Ph.D., The Role of Immune Responses in Alcoholic Liver Diseases. Awarded by: DHHS/NIH/NIAAA. 7/1/2004 – 6/30/2005 - \$294,000.

Thomas Jerrells, Ph.D., A Role for Viral Infection in Alcoholic Pancreatitis. Awarded by: DHHS/NIH/NIAAA. 8/1/2004 – 7/31/2005. \$147,000.

Marilynn Larson, Ph.D., Bovine Promoter Technology. Awarded by: UNeMED. 6/1/2004 – 5/31/2005 - \$74,000.

R. Lee Mosley, Ph.D., Neuroprotective Vaccination for Parkinson's Disease. Awarded by: DHHS/NIH. 7/1/2004 – 6/30/2005 - \$165,358.

Anthony Sambol, MT (ASCP), Nebraska Bioterrorism Plan, Focus Area D, Laboratory Capacity – Chemical Agents. Awarded by: Nebraska DHHS. 3/15/2004 – 9/30/2004 - \$206,750.

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New Employees

Lyudmila Batakina – Research Technologist I – 5/3/04
Jennifer Bradley – Research Technologist I – 5/17/04
Faith Buso – Staff Assistant – 7/26/04
Cari Coonce – Billing Representative III – 6/1/04
Tiana Curry-McCoy – Graduate Student Fellow – 7/1/04
Allison Cushman-Vokoun – House Officer I – 7/1/04
Kathryn Dufek – Secretary Specialist – 7/12/04
Paul Dunman – Assistant Professor – 7/1/04
Nathan Erdmann – Graduate Student Fellow – 7/20/04
Melissa Fladseth – Research Technologist I – 5/18/04
Kelsey Hanson – Laboratory Assistant – 5/17/04
Gerri Hollman – Lab Assistant – 7/19/04
Jamie Krueger-Gomez – Lab Assistant – 6/21/04
Vishala Neppalli – House Officer V – 7/1/04
Craig Nerby – House Officer I – 7/1/04
Kevin Olmer – Clerical Assistant III – 7/7/04
Heather Peck – House Officer I – 7/1/04
Raghava Potula – Postdoctoral Research Associate – 7/1/04
Shirene Seina – Residency Program Coordinator – 6/28/04
Laura Shafer – Researcher – 6/14/04
Victoria Smith – Research Technologist II – 6/1/04
Leigh Ann Thagard – Lab Assistant – 5/24/04
Gabrielle Tyner – Lab Assistant – 5/24/04
Lisa Walters – Research Technologist I – 5/17/04
Lori Zobel – Research Technologist I – 7/26/04

Humor –

The one important thing I have learned over the years is the difference between taking one's work seriously and taking one's self seriously. The first is imperative and the second disastrous.

- Margaret Fonteyn

Farewell Tea Held For Steve DeBerg

A farewell/retirement tea was held for Steve DeBerg, Director of the Clinical Laboratory, on Thursday, July 22, 2004, in the Private Dining Rooms. Steve joined the Department as Clinical Director and as instructor in the Medical Technology Program in January, 2000. He had previously been employed at Northwestern Memorial Hospital in Chicago.



(L to R: Sharon Jackson, Steve DeBerg, Karen Hansen & Diane Schafer)

Steve is retiring from the medical field, but not from the work that he truly loves – cooking. He and his wife, Cindy, are planning to build a home in northern Illinois in the near future. Their long term goals include travel, opening a culinary arts program and continuing with their longtime hobby as wine connoisseurs.

B RTP Recruits 9 New Graduates

The Biomedical Research Training Program (B RTP) has recruited nine new graduate students for the upcoming year. These students will begin their first year this fall and will rotate in laboratories of the five basic science departments to find a laboratory for their doctoral work.

Our department will have the opportunity to present our research and meet these students on August 16, 17 or 18th. If you have an interest in recruiting a student to your laboratory for rotation in the 2004-2005 academic year, please contact Marge Boyden (mboyden@unmc.edu or ext. 94040) to arrange presentation of your research and a chance to meet these new graduate students.

Manuscripts

Recent manuscripts submitted for publication by the Department of Pathology and Microbiology faculty and staff include the following:

Adams TB, Cohen SM, Doull J, et al. The FEMA GRAS assessment of cinnamyl derivatives used as flavor ingredients. *Food Chem Toxicol.* Feb 2004;42(2):157-185.

Bastola DR, Otu HH, Doukas SE, Sayood K, Hinrichs SH, Iwen PC. Utilization of the relative complexity measure to construct a phylogenetic tree for fungi. *Mycol Res.* Feb 2004;108(Pt 2):117-125.

Benner EJ, Mosley RL, Destache CJ, et al. Therapeutic immunization protects dopaminergic neurons in a mouse model of Parkinson's disease. *Proc Natl Acad Sci U S A.* Jun 22 2004;101(25):9435-9440.

Carlson KA, Limoges J, Pohlman GD, et al. OTK18 expression in brain mononuclear phagocytes parallels the severity of HIV-1 encephalitis. *J Neuroimmunol.* May 2004;150(1-2):186-198.

Cohen SM. Risk Assessment in the Genomic Era. *Toxicol Pathol.* 2004;32(Supplement 1):3-8.

Cohen SM. Human carcinogenic risk evaluation: an alternative approach to the two-year rodent bioassay. *Toxicol Sci.* Aug 2004;80(2):225-229.

Cohen SM, Klaunig J, Meek ME, et al. Evaluating the Human Relevance of Chemically Induced Animal Tumors. *Toxicol Sci.* Apr 2004;78(2):181-186.

Greiner TC. mRNA microarray analysis in lymphoma and leukemia. *Cancer Treat Res.* 2004;121:1-12.

Iqbal J, Sanger WG, Horsman DE, et al. BCL2 translocation defines a unique tumor subset within the germinal center B-cell-like diffuse large B-cell lymphoma. *Am J Pathol.* Jul 2004;165(1):159-166.

Mathews K, Sasson A, Cohen S. Pathologic quiz case: a woman with abdominal fullness. Adrenal myelolipoma. *Arch Pathol Lab Med.* Jun 2004;128(6):703-704.

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Residents' Corner

Welcome to the Residents Corner! Let me start by introducing myself. My name is Shirene Seina and I have recently accepted the position as the Residency Coordinator for Pathology. I have been on campus nine and a half years in a variety of roles, including staff support, fellowship coordination, as well as in clinical and basic research. I look forward to bringing this experience to the pathology and microbiology department and its residency program.



(Shirene Seina)

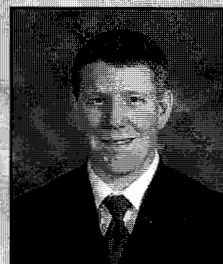
The intent of this column is to recognize the accomplishments and milestones of our Residents, in both their professional and personal lives. In addition, I will be including information relevant to the residency program and department, such as our upcoming ACGME accreditation requirements, that strongly influence our program.

Welcome To:

We would like to welcome our three new first year residents who started the program on July 1, 2004, Allison Cushman-Vokoun, Craig Nerby and Heather Peck.



(Dr. Cushman-Vokoun)



(Craig Nerby)



(Heather Peck)

Congratulations To:

Fourth year resident Kurt Mathews on his recent publication "Pathologic quiz case: a woman with abdominal fullness. Adrenal myelolipoma". *Arch Pathol Lab Med.* 128(6):703-4, 2004.

Second year resident Shane Kohl and his wife Jodi who are the proud parents of a baby girl. Olivia was born on July 29, 2004. She weighed 7lb 8oz and was 20 1/2" long.

Dissertation Defenses

Jodi R. Alt, Ph.D. candidate, gave her Doctoral Dissertation on July 26, 2004: "The Role of Mdm2 in Lymphomagenesis and DNA Repair." Her advisor is Dr. Christine Eischen.

Cory Bernadt, Ph.D. candidate, gave his Doctoral Dissertation on June 2, 2004: "The role of the CCAAT box and NF-Y in the differential regulation of the FGF-4 gene." Cory is in the M.D./Ph.D. program and will be returning to medical school. His advisor is Dr. A.A. Rizzino.

Robert Kortum, Ph.D. candidate, gave his Doctoral Dissertation on May 21, 2004: "The Molecular scaffold KSR1 regulates ERK activation and determines proliferative, oncogenic and adipogenic potential." Robert Kortum is in the M.D./Ph.D. program and he will be returning to medical school. His advisor is Dr. Robert E. Lewis.

Valerie Piening, M.S. candidate, gave her Master of Science Dissertation on July 23, 2004: "Identification and Characterization of TIP30-Interacting Proteins." Her advisor is Dr. Hua Xiao.

Summer Students of 2004

The Department of Pathology and Microbiology would like to acknowledge the following students who participated in the 2004 Summer Student Program and the researchers with whom they worked:

CNND Labs Hosted: Oluwafisayo Adejuyigbe, Robin Cotter, Sierra Gendelman Sara Gordon, Michel Kwarteng, Timothy McAuliff, Tolulope Olade, Anastassia Persidsky, Rindha Reddy, Jennifer Rolef, Jessica Schutte, Christopher Shi

Dr. Sam Cohen's Lab Hosted: James Scribner

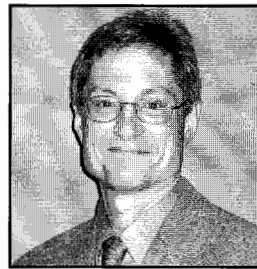
Dr. Steve Hinrichs' Lab Hosted: Sarah Hanson, Curt Safranek & Jason Uher

Dr. Thomas Jerrells' Lab Hosted: Corinna Gibbons, Danielle Pell & Quinn Saigh

It is easier to do a job right than to explain why you didn't.

- Martin Van Buren

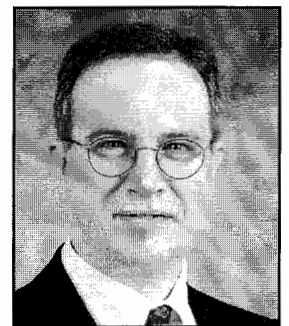
Honors



(Tony Sambol)

Anthony Sambol, MA, SM(NRM), SV (ASCP), CBSP), Assistant Professor in the School of Allied Health Professions and Assistant Director of the Nebraska Public Health Laboratory, was presented with a Homeland Planning Team award in June, 2004. Tony received the honor for his outstanding service to the State of Nebraska as a member of the Governor's Homeland Security Planning Team. The work was completed for the Nebraska Emergency Management Agency (NEMA) on behalf of the State and University of Nebraska system. Team members were honored for being "instrumental in the development and carrying out of the State Homeland Security effort, especially the 2004 strategy development, data assessment and implementation activities."

Douglas Stickle, Ph.D., Associate Professor in the Department of Pathology and Microbiology, will serve as President of the American Board of Clinical Chemistry (ABCC) for a two-year term (2005-2006). The ABCC provides certification examinations in clinical chemistry, toxicology and molecular diagnostics for doctoral level scientists. ABCC board certification is a requirement under CLIA regulations for Ph.D. directors of clinical chemistry laboratories.



(Doug Stickle, Ph.D.)

Grand Rounds 2004/2005

The speakers for the Grand Rounds fall session of 2004 have been finalized and will include an interesting list of topics. This year Grand Rounds will be held in the School of Nursing Auditorium on the first Wednesday of each month. Speakers are still needed for the January-May, 2005 sessions. Please contact Dr. Dennis Weisenburger if you have ideas for local or national speakers.

Grants Awarded (Continued from Page 3)

James Talmadge, Ph.D., Flt3-Ligand, Immunomodulation and Therapy in Asthma. Awarded by: NIH through Creighton University. 3/15/2004 – 2/28/2005 - \$48,769.

Huangui Xiong, M.D., Ph.D., Neuronal Physiology and HIV-1-Associated Dementia. Awarded by: DHHS/NIH/NINDS. 6/1/2004 – 5/31/2005 - \$184,375.

Jialin Zheng, M.D., Macrophage Activation, Chemokines and HIV Dementia. Awarded by: DHHS/NIH/NINDS. 5/1/2004 – 4/30/2005 - \$266,204.

Congratulations To:

- Joshua Batterman and Eric Schriener who returned from Military Service in Iraq after being gone nearly 18 months. Welcome Home!

- Catherine Musembi who passed her ASCP Plebotomy certification exam.

- Marc Tompkins, Janice Tompkins' son, who graduated from UNMC with the degree of Doctor of Medicine on May 14th. Marc began a preliminary year of Internal Medicine at the University of Massachusetts at Worcester on July 1st.

- Michelle and David Varney on the birth of their baby boy, Colin John. Colin was born on June 30th. He weighed 7 lbs, 3 oz and was 19.5 inches long.

Huge Turnout at Path/Micro Picnic

Saturday, July 10th, was the perfect day for a picnic and hundreds of Path/Micro employees and their families did just that. Dr. Samuel Cohen, Chair, and Dr. Rodney Markin, Vice Chair, hosted the all day event at the Henry Doorly Zoo, which included a picnic lunch and access to all the zoo exhibits, including the tram, train rides and the IMAX theatre.

Manuscripts

(Continued from Page 5)

Mohamed AM, Bastola DR, Morlock GP, Cooksey RC, Hinrichs SH. Temperature-mediated heteroduplex analysis for detection of pncA mutations associated with yrazinamide resistance and differentiation between Mycobacterium tuberculosis and Mycobacterium bovis by denaturing high-performance liquid chromatography. *J Clin Microbiol.* Mar 2004;42(3):1016-1023.

Smith RL, Adams TB, Cohen SM, et al. Safety evaluation of natural flavour complexes. *Toxicol Lett.* Apr 1 2004;149(1-3):197-207.

Xiong H, McCabe L, Costello J, Anderson E, Weber G, Ikezu T. Activation of NR1a/NR2B receptors by soluble factors from APP-stimulated monocyte-derived macrophages: implications for the pathogenesis of Alzheimer's disease. *Neurobiol Aging.* Aug 2004;25(7):905-911

Anniversaries

The following Pathology and Microbiology staff celebrated anniversaries this year with the University of Nebraska Medical Center/The Nebraska Medical Center:

30 Years of Service: Shirley Bonneau, Cheryl Cole, Barbara Miller, Barbara Nielson, Mervin Olberding, Anne Rice & Diane Weber

25 Years of Service: Milissa Gerken, Shirley Shepherd & Delinda Sundsboe

20 Years of Service: Beverly Lavoie, Deb Lytle, Phyllis Ostbloom & Barb Switzer

15 Years of Service: Nanette Cumpston, Mary Damon-Burke, Karen Fogarty, Margaret Hansen, Susan Holmes, Robert Janes, Catherine Matuella, Cynthia Page, Kaye Shepard, Katherine Swanson & Keith Young

10 Years of Service: Gayla Davis, Kevin Klahn, Robin Taylor & Thanh Thach

5 Years of Service: Kathleen Greer, Janice Jerrells, Barb Johnson, Verna Katzenstein, Melissa Koch, Petrina Lacey, Jean Lien, Lois Magee, Allison McConachie, Michelle Petersen, Leelamma Staley, Jennifer Strachota, Ana Vargas & Monica Wilcox