



PATHOLOGY NEWS

Dear Colleagues:

We have finished another fiscal year and despite the financially tight times for research funding, we are ending on positive ground. I am also proud to announce that we have launched an initiative called OMNYX to develop hardware and software aimed at bringing digital pathology into the mainstream of Pathology practice.

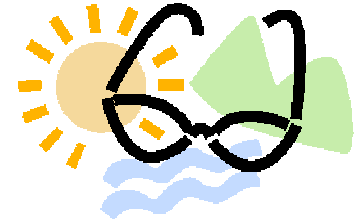
We have said good-bye to another group of residents and fellows and we are welcoming our new trainees. We will also be welcoming several new faculty and among them are five physicians from Mercy Hospital who have joined us July 1. We are also welcoming a new Director of Pathology at Children’s Hospital, Dr. Miguel Reyes-Mugica as Dr. Jaffe has stepped down as Director (at his own request). Please do your best to welcome all who have joined us for training and experience.

I am looking forward to an equally successful new academic year.

Have a safe and enjoyable summer.

Sincerely,

George K. Michalopoulos, M.D., Ph.D.
Professor and Chairman
Department of Pathology



Equipped
with his five
senses, man
explores the
universe
around him
and calls the
adventure
Science.
Edwin
Powell
Hubble,
The Nature of
Science, 1954

HOLIDAY REMINDERS

THE UNIVERSITY OF PITTSBURGH AND UPMC
CELEBRATE THE FOLLOWING DAYS: FRIDAY,
JULY 4 INDEPENDENCE DAY AND
MONDAY, SEPTEMBER 1 LABOR DAY.



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Interest

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FACULTY HIGHLIGHTS

Charleen T. Chu, MD, PhD has been selected to deliver the inaugural lecture for the **ASIP Summer Academy on Molecular Mechanisms of Human Disease** in Bethesda, MD. This new stand-alone course sponsored by the Education Committee of the American Society for Investigative Pathology is designed to present an "in-depth overview of current and cutting edge" topics in cellular and molecular pathology of human diseases. The 2008 Summer Academy to be held July 12-14 will focus upon **Injury, Inflammation and Tissue Repair**. Dr. Chu will speak on "*Mechanisms of Cell Injury and Cell Death*."

Mamatha Chivukula, M.D.

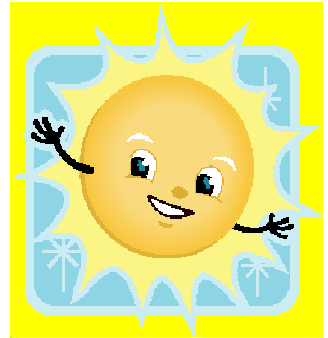
- Member of Web-Editorial Committee- American Society of Cytopathology (ASC).
- Recipient of MWRI research foundation Grant, 2008.

Jeffrey A. Kant M.D.,Ph.D.

Director, Division of Molecular Diagnostics was elected to a three year term on the Nomination and Awards Committee of the Academy for Clinical Laboratory Physicians and Scientists (ACLPS) at their Annual Meeting in Philadelphia. Dr. Kant also serves as member of the Steering Committee and co-Chair of the model test workgroup for the CDC-RAND Corporation Model Genetic Test Report project. Dr. Kant was asked to lecture on coding and reimbursement for molecular tests to the National Meeting of the CMS Carrier Medical Directors in Baltimore and to the annual Washington G2 Molecular Diagnostics Symposium as well as the 1st AACC-AMP Review Course in Molecular Diagnostics.

Paul Monga, M.D.

- standing member of Hepatobiliary Pathophysiology (HBPP) study section at the National Institutes of Health Sciences from July 1, 2008- June 30, 2012.
- will serve as an Associate Editor for the American Journal of Pathology. This term is for three years and begins July 1, 2008.
- will serve as a Section Editor in Molecular Pathology and on the Editorial Board of the Archives of Pathology and Laboratory Medicine
- will serve as a Section Editor in Molecular Pathology and on the Editorial Board of the Archives of Pathology and Laboratory Medicine.



Ah, summer,
what power
you have to
make us
suffer
and like it.
Russel
Baker

Department of
Pathology
Faculty Meeting
Monday,
September 15,
2008
5:00 p.m.
1104 UPMC
Conference
Center
Scaife Hall

FACULTY HIGHLIGHTS CONT'D

Parmjeet Randhawa, M.D.

Member, Scientific Committee, Renal Pathology Society, June 2008.

Member, Infectious Risk Ad Hoc Committee, OPTN/UNOS Disease Transmission Advisory Group & American Society of Transplantation's Infectious Diseases Community of Practice, May 2008.

Member, Task Force on Expanded Criteria Donors, Center for Organ Recovery and Education, May 2008

Co-Chair, Early Morning BK Virus Workshop: World Transplant Congress, Sydney, Australia, August 2008.

Co-Chair, Abstract Review Committee, Kidney: Polyomavirus Infection, World Transplant Congress, Sydney, Australia, August 2008.

Co-Chair, Abstract Review Committee, Kidney: Polyomavirus Infection, American Transplant Congress, Toronto, May 2008.

Darrell Triulzi, M.D., from the Division of Transfusion Medicine, joined a delegation of six members of the AABB to provide a series of lectures at the 7th Annual Hematology Congress of Saudi Arabia in Riyadh, SA May 18 -22, 2008. The level of medical care was very high and the Saudi physicians and staff were excellent hosts. The Saudi pathologists who attended were all trained in the West including the Blood Bank director at King Faisal Med Center who was trained at Duke. Dr. Triulzi is hoping to return to the Transfusion Medicine meeting in Jeddah, SA next year.

PRESENTATIONS

Shiyuan Cheng, Ph.D.

Presentation at the Mary Babb Randolph Cancer Center and Department of Physiology & Pharmacology, West Virginia University, Morgantown, WV, "Human Cancer Angiogenesis and Invasion: VEGF and Angiopoietin-2, Integrin, GEF and Beyond." April 9, 2008.

Presentation at the Department of Pathology and Laboratory Medicine, Wayne State University, School of Medicine, Detroit, MI; "Human Cancer Angiogenesis and Invasion: VEGF and Angiopoietin-2, Integrin, GEF and Beyond."

May 21, 2008.

Invited Presentation at The 17th International Conference on Brain Tumor Research and Therapy, Hakodate, Japan, "ELMO1 and Dock180, a Bipartite Rac1 Guanine Nucleotide Exchange Factor, Promotes Human Glioma Cell Invasion." June 10, 2008.

Special Seminar Invited by the Schering-Plough Japan, Keio Plaza Hotel, Tokyo, Japan, "Role of Angiopoietin-2, Integrin Signaling and Key Regulators in Human Glioma Invasion." June 13, 2008.

PRESENTATIONS

George K. Michalopoulos, M.D., Ph.D.

Received the Colgate-Palmolive traveling Lectureship in Alternative Methods in Toxicology Award in Seattle, WA on March 16, 2008

Visiting Professor for the Dean's Distinguished Lecture Series, presented "Liver Regeneration", Georgetown University, Washington, DC March 25, 2008.

Presented at the ASIP liver Pathobiology Symposium on Developmental and Regenerative Biology of Hepatic Cells, spoke on "Initiation and Termination of Liver Regeneration" San Diego, CA, April 6, 2008.

Seminar on "Liver Regeneration" at the Center for Molecular Toxicology and Carcinogenesis, University Park, PA April 16, 2008.

Will present "Liver Regeneration: Initiation and Termination Mechanisms," at the FASEB Summer Research Conference in Snowmass Village CO, August 3-8, 2008.

Paul Monga, M.D.

Wnt/b-catenin signaling in Regenerative and Developmental Biology of the Liver. EB2008, ASIP annual meeting, San Diego, CA., April, 2008

Wnt'er Wonderland in Liver Pathobiology: Implications in Development and Regeneration. Digestive Diseases Seminar, Yale University, SOM, April, 2008.

Which way the Wnt blows: Stem cells in liver development & regeneration National Cancer Institute, NIH, Bethesda, MD. May, 2008.

Parmjeet Randhawa, M.D.

Expanded criteria donors: a pathologist's perspective. Center for Organ Recovery and Education, Pittsburgh, PA, May 11, 2008.

Annual update on the in-vitro testing program for BK virus. Department of Microbiology and Infectious Disease, NIAID, NIH, Bethesda, Maryland, May 15, 2008.

BK virus: current screening recommendations. American Transplant Congress, Sunrise Symposium, Toronto, Canada, June 4, 2008.

BKV VP-1 Protein Capsids Contain Conformational Epitopes That Can Elicit Virus Neutralizing Antibodies. American Transplant Congress, Toronto, Ontario, Canada, May 31-June 4, 2008.

Clinical Utility of Measuring Antibody Isotypes to BKV Capsids in Kidney transplant Patients with Primary and Reactivation BKV infection. American Transplant Congress, Toronto, Ontario, Canada, May 31-June 4, 2008.

**University of Pittsburgh Faculty and Staff Blood Drive
Tuesday, September 9, 2008 from 8:00 a.m. to 4:00
p.m. William Pitt Student Union Lower Lounge or Victoria
Hall, First Floor Lobby 8:00 a.m. to 2:00 p.m.**



GRANTS RECEIVED

Shi-yuan Cheng, Ph.D.

NIH RO1, CA130966-01A1 Funding Period: 7/1/08 – 6/30/13

Agency: NIH, NCI Title: “ELMO1, Dock180 and Glioma Invasion”

Role in the project: P.I. The major goals of this project are to investigate the molecule mechanisms of ELMO1 and Dock180 in EGFRvIII- and PTEN modulated glioma cell invasion.

Paul Monga, M.D. (PI)

Role of Wnt/b-catenin Signaling In Liver Development. Competing renewal. Score-136; Percentile-8.6. NIDDK, NIH. Start date: Jan 1, 2009.

Jian Yu, Ph.D. (PI)

2008 Junior Scholar Award, University of Pittsburg Cancer Institute, June 20, 2008

Grant:1R01CA129829-01A1 08/01/08-05/31/13 NIH/NCI Role of PUMA in EGFR Targeted Therapy in HNSCC.

DEPARTING PATHOLOGY FACULTY

Several members of the Pathology faculty have left the Department and accepted new challenges. We wish them good luck in their future career paths. Those who left or are leaving soon include:

Antonio Amortegui, M.D.—retired after 40 years of service!

Marie Beckner, M.D.

Lisheng Ge, Ph.D.

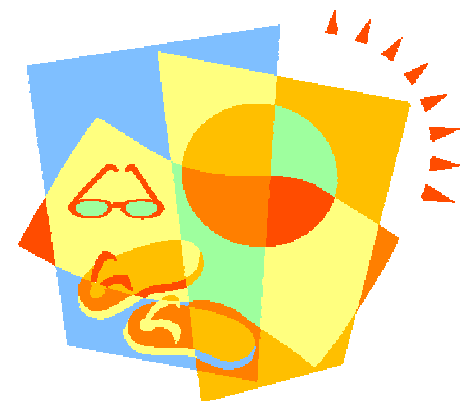
Stephen Raab, M.D.

Jorge Sepulveda, M.D.

Minh-Ha Tran, D.O.

Ewa Wieckowski, Ph.D.

Inaugural Lecture
The Thomas E. Starzl Professorship in
Transplantation Pathology Inaugural
Lecture will be given on Tuesday,
February 24, 2009 at 4:00 p.m. in 2500
Posvar Hall by Dr. A. Jake Demetris.
Title: TBA



WELCOME NEW PATHOLOGY FACULTY

Dennis Borochovitz, M.D., Clinical Professor, has joined the Department at Mercy Hospital. Dr. Borochovitz is the Director of Pathology and has previously worked at Montefiore Pathology in the past.

Wayne Cai, M.D., Clinical Assistant Professor, has joined the Department at Mercy Hospital. Dr. Cai is a staff pathologist, AP and CP certified, doing surgical pathology and cytopathology. He joined Mercy in 2000 after completing his residency at the University of Massachusetts.

Simon Chiosea, M.D. Assistant Professor, has joined the Division of Head and Neck Pathology. Dr. Chiosea completed his fellowship with Dr. Leon Barnes in June. Prior to this, he completed his residency in Anatomic Pathology at UPMC in 2007. He is certified in AP.

Scott Dufresne, M.D., Clinical Instructor, has joined the Division of Hematopathology. Dr. Dufresne has been recruited as a fellow/clinician. He joins UPMC after completing his AP and CP training at Dartmouth-Hitchcock Medical Center in Lebanon New Hampshire.

Rahman Hariri, Ph.D., Clinical Assistant, Professor, has joined the Department at Mercy Hospital. Dr. Hariri's expertise is in lab medicine. He completed his Ph.D. at the University of North Texas in 1992. He joined Mercy as the Director of Clinical Microbiology in 2001.

Agnes Liman, M.D. Assistant Professor, has joined the Department at the VA Pittsburgh Healthcare System in June. She was previously at the VAMC in Memphis TN. She is AP and CP certified. She will primarily contribute to the cytopathology service.

Sara Monaco, M.D., Assistant Professor, has joined the Department at Shadyside Hospital. Dr. Monaco completed her Cytopathology Fellowship here at the University of Pittsburgh Medical Center in 2007. Prior to that she was a resident at UPMC, after transferring from Columbia University, and completed her fourth year of training here.

Octavia Peck Palmer, Ph.D., Assistant Professor, has joined the Department as Medical Director of the Automated Testing Laboratory for PUH and Shadyside Hospitals. Dr. Peck Palmer completed her Ph.D. at the Medical University of South Carolina in 2005. She then completed a clinical chemistry fellowship at Washington University School of Medicine in St. Louis in 2008.

Aleksandr M. Pereplechikov, M.D., Ph.D., Assistant Professor, will join the Department at Mercy Hospital in August. Dr. Pereplechikov did his residency at Tufts, New England Medical Center, from 2003-2007. In 2007, he started a fellowship in Genito-Urinary Pathology at UPMC Shadyside Hospital which he completed in 2008.

Miguel Reyes-Mugica, M.D., Professor of Pathology, will join the Department at Children's Hospital as the Director of Pathology. He joins the Department coming from Yale (1995-2008) where he was the Director of the Pediatric and Developmental Pathology Program.

Sharon Steinman, M.D., Clinical Assistant Professor, has joined the Department at Mercy Hospital. Dr. Steinman is AP and CP certified. She completed a fellowship in 2006 in cytopathology at the Methodist Hospital in Texas.

Rita Windisch, Ph.D., Clinical Assistant Professor, has joined the Department at Mercy Hospital. Dr. Windisch completed her Ph.D. at Duquesne University. At Mercy, she is the Deputy Chief of Endocrinology, Clinical Chemistry and Hematology.

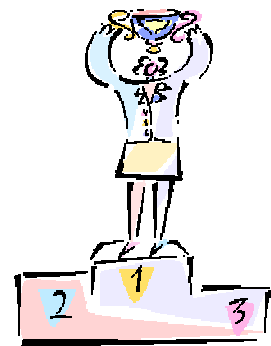
Jing Yu, M.D., Assistant Professor, will join the Department at Magee Womens Hospital in August. She will finish her Cytopathology fellowship at UPMC in 2008.

DEPARTMENT RETREAT UPDATE

The 19th Annual Pathology Research Day and 11th Annual Retreat took place on Friday May 30, from 3:00 until 9:00 PM with approximately 150 people in attendance. This year 87 abstracts were submitted; 35 from graduate students, 18 basic research trainees, 26 clinical research trainees (a record high!) and 8 from faculty. Faculty and trainee talks took place from 3:00 until 6:00 PM in room S100A of the South BST. The poster session was held from 6:15 until 9:00 PM at the Concordia Club and included appetizers with a light dinner. A special thanks to the retreat committee, our 24 judges, and especially Shari Tipton who worked tirelessly to get this organized!

Winners were:

Graduate students:	1 st	Corinne Kliment (Tim Oury)
	2 nd	Michelle Manni (Tim Oury)
	3 rd	Lauren Drowley (Johnny Huard)
Basic Research:	1 st	Fabio Marongiu (Steve Strom)
	2 nd	Fang Tian (Luyuan Li)
	3 rd	Ruben Dagda (Charleen Chu)
Clinical Research:	1 st	Jill Hagenkord (Federico Monzon & Anil Parwani)
	2 nd	Craig Horbinski (Urvashi Surti)
	3 rd	J. Manuel Zarandona (Sheldon Bastacky)



Other news of note:

- The incoming class for our parent Interdisciplinary Program (IBGP) interviewed 143 students from an applicant pool of 501 submissions. Ninety-seven of these students were offered positions and 39 will be matriculating over the summer and looking for laboratories to do rotations in the upcoming year. Our parent Medical School Training Program (MSTP) had 330 applicants, interviewed 59, and made offers to 39 students. Ten applicants matriculated on June 1, 2008 and are already hard at work in their various labs.
- Currently we have 30 students in the CMP program, 24 from the IBGP and 6 from the MSTP. Five students have graduated since last September. While it is too early to know exactly how many students will join CMP this fall, there are definitely two students; one each from IBGP and MSTP.
- The student stipend will be increasing to \$24,650.00 in the fall, in order to remain competitive with other graduate programs.
- The Summer Undergraduate Research Program (SURP) began on May 27 and will run until August 1. This year, due to size limitations imposed by the School of Medicine, our program was limited to 10 students, including three who are generously funded in conjunction with UPCI. Please plan to come and hear the student SURP presentations on the mornings of July 31/August 1. More information regarding where and when will follow.

Once again, be reminded that if you are interested in having issues brought before the CMP committee, please share them with our CMP administrator, Shari Tipton (tiptonsl@upmc.edu), or me (wmars@pitt.edu). Also, I would love to know if you are aware of any outstanding faculty members who are not currently members of CMP but who would be eligible and have a possible interest in joining. This year alone we added five new faculty members to our program, and there are two more applications in progress.

Thanks so much!

Wendy M. Mars, Ph.D., Director, Pathology SURP and CMP graduate program

RESIDENCY PROGRAM UPDATE

Chief Residents

The Chief residents for 2008 – 2009 are:

**AP – Marie Dvorakova, Jim Edinger and Alicia Liang and
CP – Amber Henry, Joey Oakley and Marian Rollins-Raval**

PGY-1 Class Orientation

This year a 7 lecture series - Introduction to General Pathology - has been organized by Dr. Schoedel and Dr. Nichols to be given Tuesday mornings during July and August. Reading assignments have been given to be completed prior to starting the program. In addition a review of normal histology will be given by Dr. Ozolek.

Residency Committee

The residency committee meets bi-monthly and membership includes all Rotation Directors, the Chief Residents and faculty who expressed interest in being committee members.

Recent decisions of the committee include a) An increase in the number of elective week rotation options by a reduction in the Core Anatomical Program requirements (Neuropathology by 4 weeks, Dermatopathology by two weeks and Gyny Breast by 2 weeks); b) An approval process for taking electives including evaluation; c) Leadership Development opportunities for residents; d) Establishment of a 4 week elective in Palermo, Italy; e) Revision of the vacation policy to redefine as 'Paid-Time-Off' in two categories of 'Personal-Time-Off' (20 work days) and 'Education-Time-Off' (5 work days).

Fellowship Committee

The Fellowship Committee meets 3 times per year and membership is comprised of all Fellowship Directors, the Department Administrator (Brian Rudolph) and Dr. Michalopoulos.

Recent decisions include a) revision of vacation policy similar to residents above; b) implementation of an annual fellowship report by each fellowship as part of an overall fellowship program review; c) decision to permit transfer of Selective Pathology Fellowships (non-boarded) to Clinical Instructor; d) initiative to improve ratio of USCAP accepted abstracts that lead to publication.

Fellowship Program ACGME Accreditation.

Six fellowships recently received 5 year accreditation without contingencies from the ACGME – Cytopathology, Neuropathology (with commendation), Gastrointestinal, Genitourinary, Thoracic and Bone & Soft Tissue.

Pathology Medical Student Interest Group (PMSIG).

This group is now in its second year with newly elected officers – President /Vice President /Secretary . It meets bi-monthly over lunch excluding the summer. Several faculty members and one fellow have shared their career paths with the group – Larry Nichols, Trevor Macpherson, Evan Baker (St Margaret's), Marie DeFrances, Mona Melhem, Nicole Esposito. In April the group organized a Clinical pathology Mini-elective with 2 hours sessions each in Chemistry (Dr. Virji), Microbiology (Dr. Pasculle, Chris Gilbert and Chris Crowe), Immunopathology (Dr. Rabin) and Molecular Diagnostics (Dr. Kant). In May a CSI TV Program was reviewed with Dr. Michael Panella from the Medial Examiners Office at a special evening meeting.

RESIDENCY PROGRAM UPDATE CONT'D

Mini-Electives

During this year Mini-Elective options of four 2 hour sessions once per week for 4 weeks for MS-1 and MS-2 students were offered in Occupational Lung Disease - Dr. Sharma and Dr. Oury, and in Clinical Pathology as described above. A Forensic Pathology Min-Elective is being planned.

GME Internal Residency Program Review

On June 12, 2008 the Residency Program had its internal GME review in preparation for its external ACGME review in 2010.

Faculty Medical School Teaching Opportunities

Opportunities for faculty teaching are available in the Case Studies Course (March each year), Organ Based Systems Course (MS-2), Pathobiology Course (August) and the Cell Biology Course. The latter has been integrated with pathology. The Pathobiology Course - co-directed by Drs. Larry Nichols and Charlene Chu – has had major modifications to increase the learning of normal histology and case studies.

Any faculty interested in exploring and teaching opportunities noted above should contact Trevor Macpherson via email: tmacpherson@mail.magee.edu or at 412-802-6013.

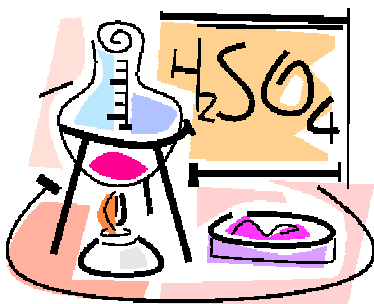
Department of Pathology Graduation Ceremony 2008

This years Graduation Ceremony was held at the Pittsburgh Golf Club. Approximately 160 trainees, faculty and guests attended. Six residents and twenty two fellows graduated. A handbook was prepared with a bio-sketch, color photograph and statement by each graduate as a substitute for speeches from the podium. Dr. Macpherson presented each resident graduate and each Fellowship Director presented their graduating fellow(s). A great time was had by all. Special thanks to Deborah Marks for organizing the event, to Deborah for taking the lead on location, program and for producing the wonderful handbook, and to Trish and Valerie for organizing the logistics of graduation gifts and certificates and providing their support for all involved in organizing a very successful and memorable graduation ceremony.

Trevor Macpherson, M.D.

Vice Chairman

Department of Pathology Education



The road to medical knowledge is through the pathological museum and not through an apothecary's shop.

~William Withey Gull

MEDICAL STUDENT TRAINING PROGRAM & PHYSICIAN SCIENTIST TRAINING PROGRAM UPDATE

For 2008 the Pittsburgh MSTP received 330 applications. We interviewed 59 of these stellar applicants and offered acceptance to 39. The male to female ratio of accepted applicants was 29:10. Their average MCAT was 11.9 with an average overall GPA of 3.8. This year we did not run a placement (aka second look) weekend at the end of March and instead worked with the Interdisciplinary program and individual graduate programs to facilitate MSTP applicants return to their program specific recruitment weekends. The good news from this revision was that more students returned for a second look (19) but the bad news was that we did not increase the matriculation ratio. On June 1st we matriculated a class of 10 stellar students (8 new students and one 2nd year medical student and one deferral). Despite our success, next year as always we will again revise the recruitment process. In addition to the Interdisciplinary, graduate program and medical school second look weekends, we will run a MSTP specific weekend with the goal of solidifying the link between applicants faculty and students. If Pathology faculty are paired with accepted applicants, please assist us in recruiting these superb students to Pittsburgh.

Of course our 2008 class has been here for a month and have already hit their stride both in the lab and participating in the Molecular Medicine course directed by Dr. Geoff Murdoch. This course meets for two hours every Tuesday and Thursday evening. The first two weeks are committed to instructing the students in the on line resources available for research in molecular medicine. In collaboration with HSLS the students learn about the abundant online sources available for researching genomic and protein sequences. In each subsequent week a different graduate program introduces an important biomedical problem from the unique perspective of their field. We will end the summer with our Annual retreat celebrating our 25th Anniversary. The first day of the retreat will be held in the South BST foyer and S100. We encourage all of the Pathology faculty, students and fellows to attend so please check out the website description: <https://www.mdphd.pitt.edu/retreat.asp>

We are now in the second year of the Physician Scientist Training Program (PSTP). The PSTP is modeled closely on the MSTP with the biggest exception being that the PSTP is a 5-year program without a required PhD. Dr. Richard Steinman from the Department of Medicine Directs the PSTP while yours truly is a co-Director. We now have 13 students distributed over 5 years. They participate in all of the same activities as MSTP students, except after their second year of medical school they will commit only one year to research before completing their MD. Because the two programs are run in parallel, PSTP students have the ability to apply to the MSTP during their research year without losing ground towards completing both degrees. This second year of the program we received 60 applicants and matriculated a class of 5 external and 3 internal (second year medical school) students.



Clayton A. Wiley, M.D./Ph.D.
ASSOCIATE DEAN,
DIRECTOR OF MSTP &
CO-DIRECTOR OF PSTP

Pathologist Investigator Residency Training Program (PIRT)

"The PIRT Program is an exciting feature of our training program, reflecting a strong statement of our commitment to clinical, translational and/or basic research as an important component for the education of all our residents."

Trevor Macpherson, MD, Pathology Residency Director

The PIRT program in the Department of Pathology at the University of Pittsburgh is designed to train academic pathologists to become independent investigators in disease-oriented research, and to play leading roles in combined research and diagnostic careers. This program, which was initiated in October 2004, has undergone significant restructuring in consultation with the Task Force to Explore Research Training and Experience for Pathology Residents and Fellows. This has allowed for expansion of the program, more efficient integration of the first PIRT research year with AP only or CP only tracks, opportunity for a second research year as a PIRT post-doctoral fellow (leave of absence from residency) and/or arranging additional research time to be integrated with fellowship training.

We would like to thank Xiao-Ming Yin, MD, PhD, Mike Shurin, MD, PhD and Tong Wu, MD, PhD, for their continuing service on the PIRT selection committee, and welcome our new members, Cary Wu, PhD, Harry Blair, MD and Rajiv Dhir, MD.

We welcome the two newest trainees of the PIRT program community, both of whom recently matched with our Pathology Residency and will begin July 1. Restructuring of the Pathology AP only and CP only requirements will make it possible for both Fei and Zaibo to pursue 12 months of elective research time within the residency program. It is anticipated that many of our trainees will choose to integrate further research training with their fellowship experiences, and/or explore other options for post-doctoral training including the leave-of-absence PIRT year, which will continue to support one trainee per year.

Fei Gao, M.Med. (Shanghai Medical Univ.-Fudan University Medical Center), **Ph.D.** (Univ. Pittsburgh), **AP/PIRT.** Environmental pulmonary pathology.

Zaibo Li, M.B. (Beijing Medical Univ.), **Ph.D.** (Univ. Rochester), **CP/PIRT.** Stem cells, angiogenesis and tumor therapeutics.

Pal Kaposi-Novak, M.D. Pal's research proposal to work on SNP genotyping of liver cancers under the mentorship of Dr. George Michalopoulos was accepted by the PIRT selection committee last fall, and he is scheduled to take his PIRRT post-doctoral fellowship year July 08-June 09, in between his first and second years of AP/CP training.

Julia Kofler, M.D. Julia is in the final phase of her PIRT post-doctoral year in Clayton Wiley's laboratory, and is scheduled to return to the NP portion of her AP/NP training. During this year, she worked on immunizing aged and juvenile macaques for Alzheimer's beta amyloid and studied alterations in Notch signaling in models of SIV encephalitis.

Edward Plowey, M.D., Ph.D. Ed's research on neurite degeneration in a genetic model of Parkinson's disease, which was initiated during his PIRRT post-doctoral year in 06-07, was published in the *Journal of Neurochemistry*. He was recently awarded a competitive research fellowship on the NINDS Training in the Neurobiology of Neurodegenerative Disease T32 grant directed by Michael Zigmond, and will return to Charleen Chu's laboratory for a second research year to be coordinated with training in diagnostic Neuropathology.

We greatly appreciate the strong support extended by Dr. Michalopoulos, Dr. Macpherson, Shari Tipton, Trish Zrimsek, and Valerie Quickley, particularly during this transition phase as we work to expand opportunities for the "PI" training track in our Pathology program.

Charleen T. Chu, M.D., Ph.D. , Tim D. Oury, M.D., Ph.D. Co-Directors, PIRT Program

PATHOLOGY POSTDOCTORAL RESEARCH TRAINING PROGRAM (PPRTP)

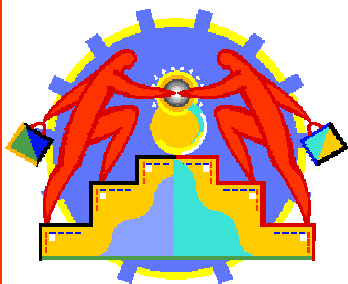
Grant awardees for this year are:

Basak Isin, Ph.D for studying the mechanisms for unwinding and translocation of DNA by helicases;

Hong Qu, Ph.D., for studying the role of integrin-binding protein Mig-2 in regulation of fibronectin deposition in mesangial cells.

Cary Wu, Ph.D., is now the Co-director of the Pathology Postdoctoral Research Training Program (PPRTP)

Aaron Bell, Ph.D.
Director, PPRTP



PIIT VOLUNTEER POOL

Career Clothing Drive

A very basic and immediate need of many men and women in transition to professional careers is clothing appropriate for a new workplace. If you are willing to help clients by donating professional clothing for men and women that is ready to wear, volunteers from the Pennsylvania Women Work will be receiving donations on **Wednesday July 9th from 8:00 a.m. to 4:30 p.m. at the William Pitt Union**. All donations are tax deductible.

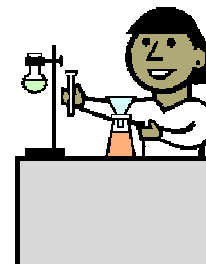
All items should be cleaned prior to donating.

Any questions, please call Gwen at 624-7702 or email her at gwatkins@pitt.edu.

Thank you for any consideration you may give this request.

“The scientist is not a person who gives the right answers, he's one who asks the right questions.”

~Claude Lévi-Strauss, Le Cru et le cuit, 1964.



CME CREDIT UPDATE

The University of Pittsburgh School of Medicine, Center for Continuing Education for the Health Sciences transcripts can be obtained via the Internet at ccehs.upmc.edu. Click on the link "Credit Transcripts" enter the required information (last name, last five digits of social security number). To receive a complete transcript do not enter dates and choose "submit." The transcript reflects the American Medical Association Category 1 credits or the Continuing Education Units (CEUs) which have been entered into the Center's database. To print the credit transcripts, please click on the drop down menu next to the Select Option and select Print Credit Transcripts. Credits from other institutions can be entered using the option "add/modify" credit information. The Center for Continuing Education will not validate this section of the credit transcript. For questions about the Continuing Medical Education Credits, please contact 412.647.8232.

ANNUAL REPORT UPDATE

The School of Medicine has requested that an annual report be submitted by October 1. In the past, we have emailed faculty the information submitted the previous year. We will do the same this year by email and ask that it be updated and returned. We will start collecting individual faculty data **July 1 and end on September 1**. The data collected will include a research summary paragraph, Study Sections, Advisory Committees, honors, recognition and awards and a bibliography for the last three years (2006, 2007, 2008). Collecting information from all members in the Department is time consuming therefore we are asking you to please respond by September 1 so that we can meet the deadline of October 1. Thank you in advance for your cooperation in compiling the annual report. If you have any questions, please contact Chris Szalkuski at szalkuskict@upmc.edu. Thank you.

EDUCATIONAL CREDIT UNIT UPDATE

Just a reminder that the Educational Credit Units (ECUs) will be collected from every faculty member at the end of July. ECU spreadsheets will be distributed to the Departments from the Office of Medical Education with the information they have captured for teaching from the Medical School and the Graduate Program. We will post the information on our webpage and ask Faculty to review and either ok or edit the information. The turn around time for responding will be four weeks, therefore this message is sent to alert you that the ECU information is to come some time in July. If you have any questions please contact Chris Szalkuski at szalkuskict@upmc.edu. Thank you.

PUBLICATION NOTIFICATION FORM UPDATE

The Dean has requested a Notification of Publication form for each manuscript accepted for publication in a peer-reviewed journal. The forms ensure compliance with human and animal research policies, technology transfer/patent guidelines and the requirements for citation of grant support. Please submit two copies of the manuscript along with the notification form directly to Dr. Michalopoulos' office and it will be forwarded to the Dean's office. The forms can be accessed via the website at: <http://www.health.pitt.edu/cbmi/notification.htm>. Thank you.

PATHOLOGY
RESEARCH SEMINAR
SERIES

Title: TBA

Bryon Petersen, Ph.D.

Associate Professor of Pathology
Department of Pathology
University of Florida
Gainesville, FL

Wednesday, September 10, 2008

noon

1104 UPMC Conference Center
Scaife Hall

"From birth to death: roles of HGF in development and maintenance of the central nervous system"

Elizabeth M. Powell, Ph.D.

Assistant Professor of Anatomy and Neurobiology and Psychiatry
University of Maryland
Baltimore, MD

Wednesday, September 17, 2008

noon

1105A/B UPMC Conference Center
Scaife Hall

Annual Fetterman Lecture

"Hirschsprung Disease and Related Disorders."

Raj P. Kapur, M.D., Ph.D.

Professor of Pathology
University of Washington
Seattle, WA

Thursday, September 18, 2008

8:00 a.m.

McCluskey Auditorium, CHP

"Finding a Pharmacological Treatment for ataxia-telangiectasia"

Rodney Shackelford, DO, Ph.D.

Molecular Pathology Fellow
Johns Hopkins University
Baltimore, MD

Wednesday, September 24, 2008

noon

1105A/B UPMC Conference Center
Scaife Hall

PUBLICATIONS

Y Lai, RW Hickey, Y Chen, H Bayir, M Sullivan, **CT Chu**, PM Kochanek, CE Dixon, LW Jenkins, SH Graham, SC Watkins, RSB Clark. (2008) Autophagy increased after traumatic brain injury in mice is partially inhibited by the antioxidant g-glutamylcysteinyl ethyl ester. *J Cereb Blood Flow Metab*, **28**: 540-550.

Plowey, ED, Cherra SJ, 3rd, Liu YJ, Chu CT (2008) Role of autophagy in G2019S-LRRK2-associated neurite shortening in differentiated SH-SY5Y cells *J. neurochem* 105:1048-1056.

SJ Cherra III & **CT Chu**. (2008) Autophagy in neuroprotection and neurodegeneration: a question of balance. *Future Neurol*, **3**: 309-323.

Imanishi, Y., Hu, B., Guo, P., Bar-Joseph, I., Jarzynka, M. J., and Cheng, S.-Y. (2007) "Angiopoietin-2 Stimulates Human Breast Cancer Cell Metastasis through the a5b1 Integrin/ILK Signaling Pathway" *Cancer Res.*, *67*(9) 4254-4263.

Hu, B., Guo, P., Imanishi, Y., Bar-Joseph, I., Jarzynka, M. J., Bogler, O., Hirose, T., Nishikawa, R., and Cheng, S.-Y. (2007) "Neuropilin-1 Promotes Glioma Progression through Potentiating the Activities of the HGF/c-Met Pathway", *Oncogene*, *26*(38):5577-5586 [Epub ahead of print on March 19].

Jarzynka M.J., Hu B., Bar-Joseph, I., Gu W., Hirose T., Tosello-Trampont, A.-C., Ravichandran K. S., Nishikawa R. and Cheng, S.-Y. (2007). "Dock180 and ELMO1 promote glioma cell migration and invasion." *Cancer Res.*, *67*(15) 7203-7211.

Gong, H.-B., Guo, P., Zhai, Y., Zhou, J., Uppal, H., Jarzynka M.J., Song, W., Cheng, S.-Y., and Xie, W., (2007) "Estrogen Deprivation and Inhibition of Breast Cancer Growth in vivo through Activation of the Orphan Nuclear Receptor LXR." *Mol. Endocrinol.*, 2007; *21*(8) 1781-1790 [Epub ahead of print on May 29].

Nichols L, Lagana S, Parwani A. Coronary artery aneurysm: A review and hypothesis regarding etiology. *Arch Pathol Lab Med* 2008 May;132(5):823-8



PATHOLOGY
RESEARCH SEMINAR
SERIES

“Immunomic and Proteomic Blood-Based Biomarkers for Lung Cancer Detection and Prognosis”

William Bigbee, Ph.D.

Professor of Pathology
University of Pittsburgh

Wednesday, October 1, 2008

Noon

1104 UPMC Conference Center
Scaife Hall

“Let Die or not-Manipulating Apoptosis in Cancer Therapy”

Jian Yu, Ph.D.

Assistant Professor of Pathology
UPCI

Wednesday, October 15, 2008- noon

1104 UPMC Conference Center
Scaife Hall

“Diversity in Xenobiotic Sensing Through Differential Splicing of the Human Nuclear Receptor, CAR”

Curt Omiecinski, Ph.D.

Professor and Hallowell Chair
Center for Molecular Toxicology and Carcinogenesis
Penn State University
University Park, PA

Wednesday, October 22, 2008—noon

1105A/B UPMC Conference Center
Scaife Hall

Title: TBA

Joseph Locker, M.D., Ph.D.

Professor of Pathology
Albert Einstein College of Medicine
Bronx, NY

Wednesday, October 29, 2008—noon

1105 A/B UPMC Conference Center
Scaife Hall

PUBLICATIONS

Zhao, C., and Austin, RM. Adjunctive high risk HPV DNA testing is a useful option for disease risk assessment. *Cancer*. 2008 May 16. [Epub ahead of print] Accepted in April, 2008.

Zhao, C., Barner, R., Vinh, TN., McManus, K, David, D., Russell, V. SF1 is a diagnostically useful immunohistochemical marker and comparable to other sex cord-stromal tumor markers for the differential diagnosis of ovarian Sertoli cell tumor. *Int J Gynecol Pathol*. 2008 in print.

Zhao, C., Austin, RM, Pan, J., Barr, N., Martin, SE., Raza, A., Cobb, C. Clinical Significance of Atypical Glandular Cells (AGC) in Conventional Pap Smears in a Large High Risk U.S. West Coast Minority Population. *Acta Cytol*. 2008. in print.

Sudeshna Bandyopadhyay, R. Marshall Austin, David Dabbs, Chengquan Zhao. Adjunctive HPV DNA Testing Is a Useful Option in Some Clinical Settings for Disease Risk Assessment and Triage of Women with ASC-H Pap Results. *Arch Pathol Lab Med*. Accepted in May 2008.

Chengquan Zhao and R. Marshall Austin. High Risk HPV DNA Testing Is Useful For Disease Risk Stratification in Women with Unsatisfactory Liquid- Based cytology Pap Test Results. *J Low Gen Tract Dis*. Accepted in June 2008.

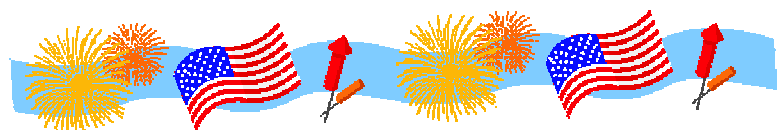
Randhawa P, Zemlicka J, Sauerbrei A, Meier C, Hostetler K, Beadle J, Farasati N, Huang Y, Bradley M. Anti-BK Virus Activity of Nucleoside Analogs. *Antimicrob Agents Chemother*. 52 (4): 1519-1521, 2008.

Batal I, Zeevi A, Heider A, Girnita A, Basu A, Tan H, Shapiro R, Randhawa P. Measurements of global cell mediated immunity in renal transplant patients with BK virus reactivation. *Am J Clin Pathol*. 129 (4): 587-591, 2008.

Drachenberg C, Odorico J, Demetris AJ, Arend L, Bajema I, Brujin JA, Cantarovich D, Chapman J, Dimosthenous K, Fyfe-Kirschner B, Gaber L, Gaber O, Goldberg J, Honsova E, Iskandar S, Klassen DK, Nankivell B, Papadimitriou JC, Racusen L, Randhawa P, Reinholt F, Renaudin K, Revelo P, Ruiz P, Torrealba JR, Vazquez-Martul E, Voska L, Stratta R, Bartlett ST, Sutherland D. Banff schema for grading pancreas allograft rejection: Working proposal by a multidisciplinary international consensus panel. *Am J Transplant*, 8: 1-13, 2008.

Solez K, Colvin RB, Racusen LC, Haas M, Sis B, Mengel M, Halloran PF, Baldwin W, Banfi G, Collins AB, Cosio F, David D, Drachenberg C, Einecke G, Fogo AB, Gibson IW, Glotz D, Iskandar SS, Kraus E, Lerut E, Mannon RB, Mihatsch M, Nankivell BJ, Nicleleit V, Papadimitriou JC, Randhawa P, Regele H, Renaudin K, Roberts I, Seron D, Smith RN, Valente M. Banff 07 Classification of Renal Allograft Pathology: Updates and Future Directions. *Am J Transplant*. 8: 753-760, 2008.

Shi, X. and Wu, C. A suppressive role of mitogen inducible gene-2 (Mig-2) in mesenchymal cancer cell invasion. *Mol Cancer Res*. (2008) 6(5): 715 – 724



PATHOLOGY
RESEARCH SEMINAR
SERIES

“Bias Role of PGE₂ and Adenosine in the Host-Tumor Conflict”

Eli Gorelik, M.D., Ph.D.

Professor of Pathology

University of Pittsburgh Cancer Institute

Wednesday, November 5, 2008- noon

1104 UPMC Conference Center
Scaife Hall

ANNUAL TOTTEN LECTURE

"Serous intraepithelial neoplasia of the female genital tract: A unifying concept and its application".

Christopher P. Crum, M.D.

Professor of Pathology

Harvard Medical School

Boston, MA

Wednesday, November 12, 2008

4:00 p.m.

Auditorium, Zero Level

Magee Womens Hospital

Reception immediately following lecture in Conference Room A and B

Title: TBA

Shekhar R. Gandhi, M.S., Ph.D.

Associate Professor of Surgery and

Pathology

Department of Surgery

University of Pittsburgh

Wednesday, November 19, 2008—noon

1105A/B UPMC Conference Center
Scaife Hall



PUBLICATIONS

Wiebe, C. B., Petricca, G., Häkkinen, L., Jiang, G., Wu, C. and Larjava, H. S., Kindler Syndrome and periodontal disease: Review of the literature and 12-year follow-up of treatment outcome. *J. Periodontology* (2008) 79(5):961-966

Ma, Y-Q., Qin, J., Wu, C. and Plow, E. F. Kindlin-2 (Mig-2): A co-activator of beta3-integrins. *J. Cell Biol.* (2008) 181(3):439-46.

Mayolo, A. A., Mays, L., Zhang, Y., Cheng, C.-M., Watkins, S. C., Wu, C. and LeDuc, P. R. Spatiotemporal response of living cell structures in *Dictyostelium discoideum* with semiconductor quantum dots. *Nano Letters* (2008) 8(5):1303-8

Shi, X., Qu, H., Kretzler, M. and Wu, C. The roles of PINCH-2 in regulation of glomerular cell shape change and fibronectin matrix deposition. *Am. J. Physiol. Renal Physiol.* 2008 May 14. [Epub ahead of print]

Wang, X., Fukuda, K., Byeon, I.J., Velyvis, A., Wu., C., Gronenborn, A and Qin, J. The structure of a-parvin CH2/paxillin LD1 complex reveals a novel modular recognition for focal adhesion assembly. *J. Biol. Chem.* 2008 May 28. [Epub ahead of print]

Qiu W, Carson-Walter EB, Liu H, Epperly M, Greenberger JS, Zambetti, GP, Zhang L, Yu J. (2008) PUMA regulates intestinal progenitor cell radiosensitivity and gastrointestinal syndrome. *Cell Stem Cell.* 2008 Jun 5;2(6):576-83.

Dudgeon C and Yu J. (2008) Green Tea and PUMA: A Deadly Combination? *Cancer Biol Ther.* 2008 May 21;7(6). [Epub ahead of print] (invited commentary)

Garrison, SP, Jeffers JR, Yang C., Nilsson JA, Hall M, Rehg JE, Yue W, Yu J, Zhang L, Onciu M, Sample JT, Cleveland JL, and Zambetti GP. (2008) Selection against PUMA gene expression in Myc-driven B cell lymphomagenesis. *Molecular and Cellular Biology.* In press.

Ming L, Sakaida T, Yue W, Jha A, Zhang L, and Yu J. (2008) Sp1 and p73 activate PUMA following serum starvation. *Carcinogenesis.* In press.

Castro ECC, Galambos C, Shaw PH, Ranganathan S Primary mesenteric angiosarcoma in a child with associated lymphangiectasia: a case report (*In Press: Ped Dev Pathol*).

Zahka K, Kalidas K, Cross H, Keller B, Galambos C, Gurtz K, Patton MA, Crosby AH: Homozygous mutation of MYBPC3 associated with severe infantile hypertrophic cardiomyopathy at high frequency amongst the Amish (*In Press: Heart*).

Ding, W-X, H-M. Ni and X-M. Yin. Absence of Bax Switched MG132-induced Apoptosis to Non-Apoptotic Cell Death that Could be Suppressed by Transcriptional or Translational Inhibition. *Apoptosis* 12: 2233-2244, 2007.

Weng, Z., A.P. Signore, Y. Gao, S. Wang, F Zhang, T. Hastings, X.-Mi. Yin and J. Chen. Leptin protects against 6-hydroxydopamine-induced dopaminergic cell death via mitochondria-activated protein kinase signaling. *J. Bio. Chem.* 282: 34479-34491, 2007.

PUBLICATIONS

- Ni, H-M., X. Chen, L. Chen, D. DiFrancesca, H. Harada and X-M. Yin. The impact of genetic background and Bid on the phenotype of Bcl-2 deficiency in mice. *Apoptosis* 13: 53-62, 2008.
- Han, J., W. Hou, L. A. Goldstein, C. Lu, D. B. Stolz, X.-M. Yin and H. Rabinowich. Involvement of protective autophagy in TRAIL-resistance of apoptosis defective tumor cells. *J. Bio. Chem.* published on line March 28, 2008.
- Periyasamy-Thandavan S, M. Jiang, Q. Wei, R. Smith, X.-M. Yin and Z. Dong, Autophagy is cytoprotective during cisplatin injury of renal proximal tubular cells. *Kidney International*, on line May 28, 2008.
- Gao, W, W-X. Ding, D. B. Stolz and X.-M. Yin. Macroautophagy induced by exogenously introduced calcium. *Autophagy*, 4(6): published on line May 30 2008 .
- Zhang, X.; R. Vallabhaneni, P.A. Loughran, S. Richard, X.-M. Yin, Y. Yuan and T. Billiar. Changes in FADD levels, distribution, and phosphorylation in TNF α -induced apoptosis in hepatocytes is caspase-3, caspase-8 and BID Dependent. *Apoptosis*, published on line June 10 2008.
- Ding, W-X and X.-M. Yin. Sorting, recognition and activation of the misfolded protein degradation pathways through autophagy and the proteasome. *Autophagy* 4(2): 141-150, 2008.
- Yin, X.-M. W-X. Ding and W. Gao. Autophagy in the liver. *Hepatology* 47:1773-1785, 2008.
- Englert JM, Ramsgaard L, Valnickova Z, Enghild JJ, Oury TD: Large scale isolation and purification of soluble RAGE from lung tissue, *Protein Expr Purif* 2008, In Press.
- Nejak-Bowen, K, Monga SP. Wnt signaling in Liver Organogenesis. *Journal of Organogenesis*. April/May/June 2008;4(2):92-99.
- Tan X, Yuan, Y, Zeng G, Apte U, Thompson M, Cieply B, Stolz D, Michalopoulos GK, Kaestner KH, Monga SP. b-Catenin deletion in hepatoblasts disrupts hepatic morphogenesis and survival during mouse development. *Hepatology*. 2008 May;47(5):1667-79.
- Kliment, C, Tobolewski, J, Manni, M, Tan, R, Enghild, J, and Oury, T. Extracellular superoxide dismutase protects against matrix degradation of heparan sulfate in the lung. *Antio. Redox Sign.* 2008 Feb;10(2):261-8.
- Myllärniemi, M., Lindholm, P., Ryyänen, M., Kliment, C., Salmenkivi, K., Keski-Oja, J., Kinnula, V., Oury, T., and Koli, K. Gremlin-mediated decrease in BMP signaling promotes pulmonary fibrosis. *Amer. J. Resp. Cri. Care Med.* 2008 Feb 1;177(3):321-9.
- Carraway, M.S., Suliman, H.B., Kliment, C.R., Oury, T.D., Welty-Wolf, K.E., and Piantadosi, C.A. Mitochondrial Biogenesis in the Pulmonary Vasculature during Inhalational Lung Injury and Fibrosis. *Antio. Redox Sign.* 2008 Feb; 10 (2):269-76.

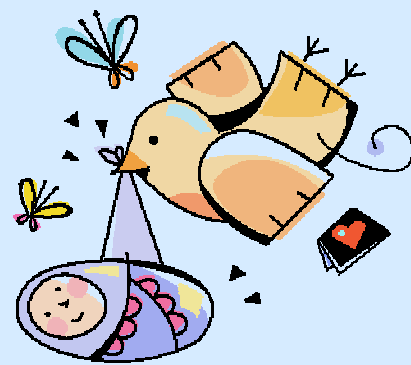
Please submit newsworthy items as they happen to Szalkuskict@upmc.edu.

Thanks !



Dr. Craig Horbinski, Neuropathology Fellow, and his wife Christy welcomed their first child, Cedric Marcus Horbinski on Wednesday, June 18 weighing 8 lbs and 9 oz and 21 3/4 inches long.

Udayan Apte and Pallavi Limaye, Research Associates in lab of Dr. Michalopoulos, welcomed their second child, a daughter, Mukta on May 23 weighing 6 lbs and 4 oz and 20 inches long. Mukta has an older brother, Mihir who is three.



Jason and Yang He welcomed a daughter on June 15, Mia He, weighing 6 lbs and 11 oz and 20 inches long. She also has an older brother, Lovan, who is two. Jason just completed his Ph.D.

Jean Solarczk (Purchasing Office) is the proud grandmother AGAIN of a new baby girl, Claire Elizabeth, born on May 7 weighing 7 lbs and 10 oz. Claire has an older sister to look out for her, Sydney, who is four!



CMP student Laura Niehouse Voegtly and her husband Eric had a baby girl. Ava Rose Voegtly was born on June 8 at 9:57pm weighing 8lbs 5oz and is 21 inches. Laura is a student in Tim Oury's lab.

If I had my child to raise all over again,
I'd build self-esteem first, and the house later.
I'd finger-paint more, and point the finger less.
I would do less correcting and more connecting.
I'd take my eyes off my watch,
and watch with my eyes.
I'd take more hikes and fly more kites.
I'd stop playing serious, and seriously play.
I would run through more fields and
gaze at more stars.
I'd do more hugging and less tugging.

~Diane Loomans, from "If I Had My Child To Raise Over Again"