

focus

Two UMMS investigators named HHMI Early Career Scientists

Chosen from a field of more than 2,000 applicants at more than 200 institutions in the country, UMass Medical School assistant professors Marc R. Freeman, PhD, and Christopher M. Sassetti, PhD, are two of only 50 young investigators to be named Early Career Scientists by the Howard Hughes Medical Institute (HHMI).

“This is a huge honor because the competition for the program was so strong,” said Dr. Freeman, assistant professor of neurobiology. “It’s exciting and humbling. At the same time, it shows an enthusiasm for the ideas and the research that we’re pursuing in the lab.”

A new initiative unveiled last year by HHMI to support outstanding young scientists at the beginning of their careers, the Early Career Scientist program provides funding for faculty (assistant professor or higher) who have run their own labs for between two and six years. HHMI support frees young investigators from the burden of having to pursue federal research grants, which in today’s constrained funding environment are increasingly difficult to obtain, and gives them the flexibility and resources to pursue new and creative ideas that might not fall under the scope of a traditional research grant.

“HHMI saw a tremendous opportunity to impact the research community by freeing promising scientists to pursue their best ideas during this early stage of their careers,” said HHMI President Thomas R. Cech. “At the same time, we hope that our investment in these 50 faculty will free the resources of other agencies to support the work of other outstanding early career scientists.”

HHMI will provide each Early Career Scientist with their full salary, benefits and a research budget of \$1.5 million over the six-year appointment. HHMI will also cover other expenses, including research space and the purchase of critical equipment. In total, HHMI expects to invest \$200 million in this inaugural class of Early Career Scientists.

“This is a truly unique opportunity because this support allows us to pursue research avenues that would otherwise go

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Marc Freeman, PhD



Christopher Sassetti, PhD

“HHMI saw a tremendous opportunity to impact the research community by freeing promising scientists to pursue their best ideas during this early stage of their careers.”

HHMI President Thomas R. Cech

Benjamin Carson to deliver Commencement address

Benjamin S. Carson, MD, an internationally renowned pediatric neurosurgeon whose personal story of triumph over early failure and his efforts to inspire future generations garnered the 2008 Presidential Medal of Freedom, will deliver the keynote address at UMass Worcester’s 36th Commencement Exercises, to be held Sunday, June 7.

Dr. Carson was born and raised in Detroit by a mother who dropped out of school in third grade and raised her two sons single-handedly. Although she worked two and three jobs, Mrs. Carson was involved in her sons’ schoolwork and, when they fell behind, demanded they read two library books a week and give her written reports even though, with her own limited education, she struggled to read what they had written. Within a year, Benjamin rose to the top of his class, having discovered his own love of learning.

“As an educator and mentor, I see in Benjamin Carson’s life story a brilliant example of not just the power of personal commitment and drive, but also the dedication of a struggling young parent to show her children how they can create a better life,” said Chancellor Michael F. Collins. “In every college and medical school across the country there are students who can thank someone in their

lives, someone special who sacrificed to provide that student with the tools to achieve and excel.”

Carson majored in psychology at Yale and graduated from the University of Michigan School of Medicine; he completed his internship in general surgery and residency in neurological surgery at Johns Hopkins and was just 32 when he was appointed director of Pediatric Neurosurgery at the Johns Hopkins Hospital. He is the co-director of the Johns Hopkins Craniofacial Center and professor of neurological surgery, oncology, plastic surgery and pediatrics and is recognized worldwide for his surgical innovations.

At Commencement, UMass Worcester will award honorary degrees to Carson and two others who have also had a profound impact on health care. John P. Howe III, MD, president and CEO of Project Hope, an international health



Benjamin Carson, MD, is recognized worldwide for his surgical innovations.

foundation with programs in 24 countries, will be recognized for his leadership of a global humanitarian and health organization and his promotion of continued medical research. Ruth W. Lubic, CNM, EdD, a birthing center pioneer and women’s health advocate, is credited with the development of the birth center model in New York State and for providing quality health care to women and infants for decades. ■

Get in Focus

Have a story idea, a faculty, student or staff achievement, or a campus-wide event for the calendar? Send it to the *Focus* editor at focus@umassmed.edu

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April 2009



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King awarded for advocacy



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It's a match!

Life Sciences Moment Fund awards first grants

Five teams of intercampus researchers at the University of Massachusetts were awarded \$750,000 from the Life Sciences Moment Fund, which is dedicated to supporting life sciences research with clinical and translational potential.

Part of the UMass Center for Clinical and Translational Science, the \$1 million Life Sciences Moment Fund seeks to accelerate the timeline for bringing basic scientific research findings to the bedside by leveraging expertise from each of the five UMass campuses to develop new and promising research partnerships.

To be considered for funding, proposals had to be intercampus collaborations and include a faculty member from the Medical School. Funded projects include:

- Patricia Wadsworth, PhD, professor of biology at UMass Amherst, and **Stephen J. Doxsey**, PhD,

professor of molecular medicine and biochemistry & molecular pharmacology and cell biology, will explore the cellular processes that lead to extreme dwarfism, which could lead to potential drug treatments or surgical intervention.

- William Kiernan, PhD, adjunct professor and director of the Institute for Community Inclusion at UMass Boston, **Jean A. Frazier**, MD, the *Robert M. and Shirley S. Siff Chair* and professor of psychiatry and pediatrics, and **Maryann Davis**, PhD, research associate professor of psychiatry, will establish a program at UMMS to provide

pre-employment training for young adults with Asperger's disorder.

- Sankaran Thayumanavan, PhD, professor of chemistry at UMass Amherst, and **Michael R. Green**, MD, PhD, Howard Hughes Medical Institute Investigator, the *Lambi and Sarah Adams Chair in Genetic Research* and professor of molecular medicine and biochemistry & molecular pharmacology, will collaborate on the development of methods for targeting the delivery of siRNAs to human cells, with a specific emphasis on cancer treatment.
- Garry Handelman, PhD, professor of nutrition at UMass Lowell, and **Lori Pbert**, PhD, associate professor of medicine, will develop a

community partnership in Lowell to help prevent type 2 diabetes in high-risk youth.

- Barbara Osborne, PhD, professor of immunology at UMass Amherst, and **Michelle A. Kelliher**, PhD, associate professor of cancer biology and molecular genetics & microbiology, will develop targeted therapies for T cell acute lymphoblastic leukemia.

Proposals were reviewed and selected by the UMass Center for Clinical and Translational Science's steering committee and received \$100,000 to \$200,000 in initial funding. Results from many of these projects will be used as the basis for additional grant funding from the National Institutes of Health and other sources. ■

Early Career Scientists

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unexplored because of a lack of resources," said Dr. Sasseti, assistant professor of molecular genetics & microbiology.

Sasseti, who joined UMMS in 2004, is researching how the bacteria that causes tuberculosis remains dormant for long periods of time. Since latent bacteria are largely resistant to antibiotics, understanding how to coax them into an active state could lead to more effective treatments. Sasseti joined UMMS after completing post-doctoral work in microbiology at the Harvard School of Public Health. He studied immunology at the University of California San Francisco, where he received his PhD.

"This is a terrific honor for both Chris and the department," said Allan S. Jacobson, PhD, chair and professor of molecular genetics & microbiology. "It's a statement that he is an upcoming star in his field and that we have some incredible young talent at UMMS."

Freeman is exploring how glial cells, which represent 90 percent of the cells in the brain, sense brain injury, respond immunologically to neuron death or degeneration and manage brain recovery from trauma. Understanding the basic roles glial cells perform in these events may prove critical for developing therapies for spinal nerve injuries or neurodegenerative diseases. Freeman

received his PhD in biology from Yale University and completed a post-doctoral fellowship at the Institutes of Molecular Biology and Neuroscience at the University of Oregon. He joined UMMS in 2004.

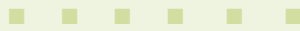
"We are all immensely proud of what Marc has already achieved so

early in his career," said Steven Reppert, MD, the *Higgins Family Professor of Neuroscience*, chair and professor of neurobiology. "The fact that UMMS has two Early Career Scientists speaks volumes about the caliber of research being done at the Medical School." ■

achievements

■ **Thomas D. Manning**, deputy chancellor for Commonwealth Medicine, has been appointed to the Governor's Long-Term Care Financing Advisory Committee, which is designed to identify strategic options for the future financing of care for elders and individuals with disabilities in Massachusetts.

■ **Vivian Okyere**, a staff member in the Lamar Soutter Library and a student at the University of Rhode Island's Graduate School of Library and Information Studies, has been awarded the Medical Library Association Minority Scholarship, an award of up to \$5,000 that will be used for tuition.



Following are faculty who have joined UMMS as professors or associate professors or who have been promoted to those ranks, as reported by the Office of Faculty Affairs:

■ **Shalesh Kaushal**, MD, PhD, appointed chair and associate professor of ophthalmology

■ **Bruce Simon**, MD, appointed associate professor of surgery

■ **Raul Davaro**, MD, promoted to clinical associate professor of medicine

■ **Anne Gilroy**, MA, promoted to associate professor of cell biology

■ **Evelyn Kurt-Jones**, PhD, promoted to professor of medicine

■ **Sarah McGee**, MD, MPH, promoted to clinical associate professor of medicine

■ **Lokinendi Rao**, PhD, promoted to clinical associate professor of pathology

■ **Lisa Selin**, MD, PhD, promoted to professor of pathology

■ **Katherine Upchurch**, MD, promoted to clinical professor of medicine

■ **Jorge Yarzebski**, MD, promoted to research associate professor of medicine

King recognized as advocate for girls

The Worcester chapter of Girls Incorporated (Girls Inc.) has named Jean King, PhD, professor of psychiatry, a recipient of its 2009 Advocate for Girls Award. The annual award recognizes two local community leaders who exemplify the Girls Inc. mission of "inspiring all girls to be strong, smart and bold." Also named a 2009 Advocate for Girls is Linda Cavaioli, executive director of the Worcester YWCA. A former Girls Inc. board member and current volunteer, Dr. King explained the motivation behind her work on behalf of the organization and the girls it serves: "I relish strong, smart and bold women, and want to see these qualities cultivated in all girls."

Girls Inc. focuses on gender equity, serving more than 1,500 local girls and boys in grades K-8 with more than 50 programs. King's first initiative as a Girls Inc. board member was to conduct a community-wide needs survey on programs that could benefit the advancement of girls emotionally, physically and academically. "We found that teenaged girls are especially underserved, with self-esteem becoming a big issue in this age group." Galvanized by the findings, King has since spearheaded the enhancement of numerous Girls Inc. programs aimed at professional explo-



Jean King, PhD

ration for pre-teen and teen girls, including SCOPE (Science Can Open Pathways for Exploration), an inquiry-based science enrichment program. As a woman in science who recalls how her own childhood experiences in girls' schools built her self confidence, King is especially proud of this program.

King is known within the UMMS community as a superb mentor for women students and faculty. "Everyone can support the girls and women in their lives," she concluded. ■

A different kind of recognition

GSBS student receives Weintraub Award

Marcus Noyes, a sixth-year student in the Graduate School of Biomedical Sciences, didn't grow up dreaming of becoming a researcher who expands the frontiers of medical science. In fact, he initially put off attending college to pursue a music career.

"I came to academia a little later in life. I wanted to play music, start a band. And if *American Idol* had been around 10 years ago, who knows what might have happened," Noyes joked.

Though he might not be playing in front of thousands of cheering fans, Noyes still finds himself getting noticed for his work. Selected to receive the 2009 Harold M. Weintraub Graduate Student Award sponsored by the Basic Sciences Division of Fred Hutchinson Cancer Research Center in Seattle, Noyes is now recognized as one of the best graduate students in the life sciences in the nation and world. He is one of only 13 students selected this year for the award, which is given on the basis of quality, originality and significance of the work.

A student in the Program in Biochemistry & Molecular Pharmacology of the GSBS' Basic & Biomedical Sciences Division and the Program in Gene Function and Expression, Noyes is researching ways to accurately and quickly predict which DNA sequences in a genome a

transcription factor is able to bind to. The bacterial one-hybrid system developed by Noyes can not only predict where a transcription factor might bind in a genome, but it can also be tailored to engineer artificial transcription factors capable of binding new sequences of DNA. Better understanding of the interaction between proteins and specific DNA sequences can help scientists understand how a network of proteins and DNA sequences interact and control cellular functions.

"Marcus is a truly outstanding student and a worthy recipient of the Weintraub Award. He is bright, ambitious, courageous and absolutely dedicated to discovery in science," said C. Robert Matthews, PhD, the *Arthur F. and Helen P. Koskinas Professor of Biochemistry & Molecular Pharmacology* and chair and professor of biochemistry & molecular pharmacology. "His achievements will revolutionize the mapping and understanding of transcription factor sites in genomes and his contributions



GSBS student Marcus Noyes is one of only 13 students worldwide selected for the 2009 Harold M. Weintraub Graduate Student Award.

to gene knockout experiments will have a similar impact on biology." Noyes is the second biochemistry & molecular pharmacology student and the third student from UMMS to win the prestigious award, following in the footsteps of Dianne Schwarz, PhD, who won in 2005, and Alla Grishok, PhD, who received the award in 2002 after graduating from the GSBS in 2001.

A graduate of Hamline University in St. Paul, Minnesota, Noyes will be joining the Lewis-Sigler Institute for Integrative Genomics at Princeton

University as an independent Lewis-Sigler Fellow in June, where he will continue to pursue research into predicting the interaction between proteins and DNA.

The Weintraub Award, established in 2000, honors the late Harold "Hal" M. Weintraub, PhD, a founding member of the Basic Sciences Division at the Fred Hutchinson Center, who died of brain cancer in 1995 at age 49. Noyes will participate with other award recipients in a scientific symposium in May at the center in Seattle. ■



The annual Match Day, held March 19 this year, is when fourth-year medical students nationwide learn where they'll begin their careers as physicians. Samuel Ayala (left) and Miguel Concepción hold letters telling them which hospital residency programs they will enter after graduating from UMMS in June. Ayala matched with the Albert Einstein College of Medicine emergency medicine residency program at Jacobi Medical Center in the Bronx, while Concepción will commence a Tufts University family medicine residency at Cambridge Health Alliance. Approximately half of this year's prospective medicine graduates at UMMS chose primary care residencies. Out of 48 pursuing residencies in Massachusetts, 19 are staying at UMMS.

Colonoscopy: Easier Than You Think campaign encourages screening

This year, some 150,000 Americans will be diagnosed with colorectal cancer—the second-leading cancer killer in the U.S.—and close to 50,000 will die of the disease. Inevitably, some of those diagnosed will be our colleagues here at UMass Medical School. Because colorectal cancer screening saves lives—as many as 60 percent of colorectal cancer deaths could be prevented if everyone 50 or older had regular screening tests—UMMS, in collaboration with UMass Memorial Medical Center, has launched a new

initiative to encourage employees to have a colonoscopy, a critical step in preventing colorectal cancer. In addition to identifying precancerous polyps in the colon or rectum so they can be removed before progressing into cancer, screening also helps find colorectal cancer at an early stage, when treatment often leads to a cure.

Colonoscopy: Easier Than You Think is a year-long program for employees who are 50 or older and who have not yet had a first, baseline colonoscopy, and for employees 40 or older with

particular risk factors (such as inflammatory bowel diseases or a family history of colorectal cancers). The program will reimburse eligible employees up to \$100 for their insurance co-pay or deductible and cost of the prep kit.

Employees with UMass Memorial physicians should call 508-856-2500 to schedule a colonoscopy appointment at a Medical Center facility. (Please tell the scheduler that you are a UMMS employee, and remember that if a referral from your PCP is required,

you must obtain this prior to scheduling your appointment.) Employees with UMass Memorial physicians can even get their prep test kits for free at the UMass Memorial Prescription Center on the first floor of the University campus.

Colonoscopy: Easier Than You Think continues through March 31, 2010. For additional information and for reimbursement forms, visit inside.umassmed.edu/hr. ■

Calendar

information infocus

Financial Services launches a new reporting tool for PIs

Last summer, Financial Services launched a new reporting and information access tool for academic administrators using PeopleSoft. The tool, called SUMMIT, enables users to gain better insight, make better decisions and achieve better results through financial data analysis and management.

This spring, Financial Services is launching a new version of the tool for principal investigators. With this new tool, PIs will have an additional resource in dashboard format for managing the financial position of their grants, projects and other university funding. Powerful “drill down” capabilities will allow users to quickly navigate from summary data to more detailed information with the click of a mouse. In addition to housing all of the financial information contained in the current PeopleSoft reports, this tool enables users to view alerts and graphs indicating where time sensitive action may need to be taken.

During April, Financial Services will sponsor four 45-minute sessions (two each on April 8 and 15) to review the functionality of the PI tool and to discuss the training and rollout strategy. The sessions are open to all PIs and anyone else interested in learning more about SUMMIT. Registration to attend is not required and light refreshments will be served. Sessions will be held on the Medical School campus as follows:

Wednesday, April 8	9-9:45 a.m.
Amphitheatre I	11-11:45 a.m.
Wednesday, April 15	9:15-10 a.m.
Amphitheatre II	11-11:45 a.m.

Chancellor’s Forum

Wednesday, April 8, 2009 • 12:15 to 1:15 p.m.
Faculty Conference Room

Suggestions for agenda items and questions may be sent (via e-mail or interoffice) to Rosalie Noone in Public Affairs.

■ The ninth Annual Educational Recognition Awards Ceremony will take place at 4:30 p.m. on Tuesday, April 14, in the Faculty Conference Room. The ceremony celebrates the educational achievements of faculty and students from all three schools. A reception will follow immediately in the Medical School lobby.

■ Appreciation gifts from Sharfmans Jewelers for UMMS employees who reach employment milestones of 5, 10, 15, 20, 25, 30, 35 and 40 years of continuous service by Dec. 31, 2009, will be available for viewing on Wednesday, April 15, from 10 a.m. to 4 p.m. in the old Medical School lobby and on Thursday, April 16, from 10 a.m. to 2 p.m. in the cafeteria at the South St. campus. Letters of notification will be mailed to eligible employees prior to these dates. If you are unable to attend either showing, photos of the gifts will be posted on the Human Resources intranet pages. For more information, call ext. 6-6097.

■ The third annual Commonwealth Medicine Academic Research Conference, *Transforming Health Care: The Impact of Translational Research*, will be held Thursday, April 16, at the Doubletree Boston/Westborough Hotel. For more information, visit inside.umassmed.edu/commed/CHPR/Academic_Conference.

■ In celebration of International Earth Day, UMMS will host the fourth annual Earth Day Festival in the old Medical School lobby on Wednesday, April 22. For more information, contact Becky Chlapowski at 6-6713.

■ The 2009 Nursing Excellence Conference, sponsored by the Graduate School of Nursing, will be held on Tuesday, April 28, from 8:30 a.m. to 3:30 p.m., in the Medical School lobby. The program provides an opportunity for nurses, student nurses and researchers to showcase recent efforts toward excellence in nursing research, education and practice. For more information, contact Betty Flodin at ext. 6-5805 or via global e-mail.

■ Throughout the month of April, the MassHealth Training Forum, a collaboration of the Office of Medicaid and the UMMS Office of Community Programs, is offering a series of meetings that provide important information and updates to health care and community agency staff who work with MassHealth members, the underinsured or uninsured. Meeting highlights include updates from MassHealth, Health Care For All, Commonwealth Care, NewMMIS Implementation and Virtual Gateway. The Department of Transitional Assistance Programs will also provide information. The meetings are scheduled from 9 a.m. to 1 p.m. and lunch is provided during roundtable discussions with presenters. Meetings will take place in Taunton, Holyoke, Tewksbury, Boston and Shrewsbury. Visit www.masshealthmtf.org for meeting specifics and to register online.

■ Team leaders and walkers needed! The 2009 American Heart Association Central Mass Heart Walk is scheduled for Saturday, May 2, at East Park in Worcester. Registration begins at 9 a.m., followed by opening ceremonies at 9:30 a.m., with the walk beginning at 10 a.m. There are 1-, 2- and 4-mile walk routes available, all of which are handicap and stroller accessible. If you are interested in becoming a team leader or a walker, send a note to Gladys McRell via global e-mail or call her at ext. 6-4400. For more information about the walk, visit www.worcesterheart-walk.org or call 508-935-3941.

grants infocus

□ **Robert W. Finberg**, MD, *the Richard M. Haidack Professor of Medicine* and chair and professor of medicine and molecular genetics & microbiology: Juvenile Diabetes Research Foundation, *Role of Coxsackievirus Infection and MDA5 in Type 1 Diabetes*; one year, \$204,815

□ **Jose R. Lemos**, PhD, professor of physiology and biochemistry & molecular pharmacology: National Institute of Neurological Disorders and Stroke, *Peptide Release Regulated by Ca²⁺ from Neurosecretory Granules*; one year, \$214,977; recommended for one more year, \$179,694

□ **Egil Lien**, PhD, associate professor of medicine and molecular genetics & microbiology: National Institute of Allergy and Infectious Diseases, *The Role of LPS-TLR4 Signaling in Live Vaccine-induced Protective Responses*,

one year, \$665,364; recommended for four more years, \$1.8 million

□ **Peter A. Rice**, MD, professor of medicine: National Institute of Allergy and Infectious Diseases, *Immunology of Infection with Neisseria Gonorrhoeae*, one year, \$665,016; recommended for four more years, \$2.8 million

□ **Kenneth L. Rock**, MD, chair and professor of pathology: National Institute of Allergy and Infectious Diseases, *Immunobiology of MHC Restriction of T-Cells*, one year, \$409,479; recommended for four more years, \$1.6 million

□ **Gyongyi Szabo**, MD, PhD, professor of medicine: National Institute of Alcohol Abuse and Alcoholism, *Hypoxia-inducible Factors in Alcoholic Liver Disease*; one year, \$235,451; recommended for one more year, \$195,097

□ **Ashutosh Tiwari**, PhD, research assistant professor of neurology: The Angel Fund, *Altered Metal Binding and Hyperbolic Exposure of ALS Mutants of Cu/Zn Superoxide Dismutase May Be Key to Cellular Toxicity*, eight months, \$53,666

Correction: Due to an error in recording grant information, **Michael F. Green**, MD, PhD, was identified in the March issue of *Focus* as the recipient of a grant from the Daymon Runyon Cancer Research Foundation. Dr. Green was the sponsor of the reported grant; **William Rodney Hardy**, PhD, was the recipient of the \$140,000 fellowship. We apologize for the error.



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Message from the Associate Dean

In 2003, the Accreditation Council for Graduate Medical Education (ACGME) developed and implemented a national standard for resident work hours called the Duty Hours Rules. These rules call for limiting the resident work week to no more than 80 hours when averaged over four weeks, limiting consecutive time on duty to no more than 30 hours, mandating one day in seven free from all clinical and educational activity and having at least 10 hours off between on-call shifts. The purpose of residency training is to prepare new doctors for the independent practice of medicine. Some believe that long hours in the hospital are necessary for residents to gain the experience they need caring for patients with complex medical issues while others feel that the fatigue resulting from long hours contributes to medical errors and potential adverse outcomes for patients.

The Institute of Medicine (IOM) was charged by Congress in 2007 to evaluate the current literature on sleep, fatigue and errors and to make recommendations that would maintain or enhance medical education while maintaining a safe environment for patients. (See the full IOM recommendations below.) While the results of the IOM report have generated much controversy among the medical education community, there are some recommendations that all would agree with: only adjusting the 80-hour work week with no change in workload will not meet the intended goal. The committee recommends reducing the amount of non-education work that residents do, improving “end of shift sign-outs” or patient transfers, and having immediate access to experienced supervisors for residents while on call.

The ACGME is now charged with making these recommendations operational, at an estimated cost of \$1.7 billion. Most of the cost is related to hiring mid-level providers to substitute for residents as well as additional clerical and support staff. The ACGME is undertaking a variety of activities involving the educational community to review current standards and their impact thus far on patient care, patient safety, resident education and resident well-being with the goal of improving all of the above. The ACGME will systematically evaluate the existing information around sleep and fatigue as it relates to medicine and medical error and it is gathering input from various program director organizations. The ACGME is also hosting an international symposium on duty hours with the goal



Deborah DeMarco, MD

of ensuring patient safety while continuing to train the next generation of physicians.

At UMass Medical School, we take the duty hours regulations very seriously. Our Graduate Medical Education Committee (GMEC) is charged with monitoring duty hours. For a month each quarter, residents log their daily hours and the GMEC reviews potential violations. Additionally, residents are encouraged to speak to their program directors or to the associate dean for GME if consistent violations occur. We continue to work with the ACGME to create the optimal learning environment for our trainees while providing optimal care for our patients. ■

Institute of Medicine

Resident Duty Hours: Enhancing Sleep, Supervision and Safety

Comparison of IOM Committee Adjustments to Current ACGME Duty Hour Limits

2003 ACGME Duty Hour Limits	IOM Recommendation
Maximum hours of work per week 80 hours, averaged over 4 weeks	No change
Maximum shift length 30 hours (admitting patients up to 24 hours then 6 additional hours for transitional and educational activities)	<ul style="list-style-type: none"> • 30 hours (admitting patients for up to 16 hours, plus 5-hour protected sleep period between 10 p.m. and 8 a.m., with the remaining hours for transition and educational activities) • 16 hours with no protected sleep period
Maximum in-hospital on-call frequency Every third night, on average	Every third night, no averaging
Minimum time off between scheduled shifts 10 hours after shift length	<ul style="list-style-type: none"> • 10 hours after day shift • 12 hours after night shift • 14 hours after any extended duty period of 30 hours and not return until 6 a.m. of next day
Maximum frequency of in-hospital night shifts Not addressed	4 night maximum; 48 hours off after 3 or 4 nights of consecutive duty
Mandatory time off duty <ul style="list-style-type: none"> • 4 days off per month • 1 day (24 hours) off per week, averaged over 4 weeks 	<ul style="list-style-type: none"> • 5 days off per month • 1 day (24 hours) off per week, no averaging • One 48-hour period off per month
Moonlighting Internal moonlighting is counted against 80-hour weekly limit	<ul style="list-style-type: none"> • Internal and external moonlighting is counted against 80-hour weekly limit • All other duty hour limits apply to moonlighting in combination with scheduled work
Limit on hours for exceptions 88 hours for select programs with a sound educational rationale	No change
Emergency room limits 12-hour shift limit, at least an equivalent period of time off between shifts; 60-hour work week with additional 12 hours for education	No change

Residency and Fellowship Programs Update

New residency and fellowship program directors 2008-2009

Mary Ahn, MD – Child and Adolescent Psychiatry
Sonia Chimienti, MD – Infectious Disease
Daniel Fischer – Interventional Cardiology
Gerardo Gonzalez-Haddad, MD – Addiction Psychiatry
Zhong Jiang, MD – Pathology
Ashraf Khan, MD – Surgical Pathology
James Ledwith, MD – Family Practice Fitchburg
Stacy Potts, MD – Family Practice Worcester
Jaishree Narayanan, MD – Clinical Neurophysiology
Paul Noroian, MD – Forensic Psychiatry

During the past year, eight program directors stepped down. Additionally, one new accredited fellowship program was approved.

Newly accredited and re-accredited residency and fellowship programs 2008-2009

New ACGME accredited program
Addiction Psychiatry

Re-accredited programs

Anesthesia
Anesthesia Critical Care*
Clinical Neurophysiology*
Dermatology*
Dermatopathology*
Plastic Surgery
Selective Pathology*
Integrated Vascular Surgery*
Forensic Psychiatry*

**commended for substantial compliance with ACGME program requirements*

Newly approved non-accredited programs

Disaster Medicine
Neurosurgery Trauma Fellowship

Psychiatry training at UMMS profile

It's an exciting time to be in psychiatry training. Explosive growth in neurogenetics and neuroimaging, an expanding array of pharmacologic treatments, the validation of evidence-based psychotherapies and rehabilitation strategies and the birth of psychiatric brain stimulation therapies mean that psychiatrists have more treatments than ever before to offer their patients. The UMass Medical School Psychiatry Residency and Fellowship programs are designed to train a generation of psychiatrists competent in all of these areas and equipped to adapt to new therapeutic discoveries as they emerge.

Psychiatry training at UMMS emphasizes continuity of care for patients in both the private and public sectors at all levels of acuity, neuroscientifically informed treatment and advocacy.

General Adult Psychiatry Residency (Sheldon Benjamin, MD, director; Caroline Fisher, MD, PhD, associate director) program includes extensive inpatient, consultation and specialty service experience at two UMass Memorial Medical Center campuses and at two state hospitals. In addition, residents spend one to two years as members of a public sector outpatient community treatment team at Community Healthlink (CHL) of Worcester, the CHL-Lipton Center in Leominster-Fitchburg or the Carson Center for Adults and Families in Westfield; three years



UMMS General Adult Psychiatry Program members at the spring 2008 retreat at Tower Hill Botanical Gardens

providing psychotherapy; and two years providing psychopharmacologic treatment in the Ambulatory Psychiatry Clinic in Worcester. About 40 percent of trainees participate in research and academic writing. For residents committed to research careers, a special career investigator track includes graduated responsibility within a research group aimed at preparing an application for a K award in the PGY4 year.

The combined **Adult and Child Psychiatry Residency** emphasizes integrated long-term patient care and research experiences in child psychiatry that begin during the first three years spent in adult psychiatry. The **Child Psychiatry Residency** (Mary Ahn, MD, director) is enriched by a number of innovative programs, including the Communities of Care program, which provides wrap-around services for the most at-risk children in Worcester County; the MCPAP

(Massachusetts Child Psychiatry Access Project), which places child psychiatrists in pediatrics offices to increase access to this scarce resource; and the Pediatric Neuropsychiatry Clinic, a joint project with Pediatric Neurology that represents one of just a few such clinics in the country. Trainees also benefit from the department's focus on treatment and research for children with autism and intellectual disabilities.

The **Neuropsychiatry Residency** (Sheldon Benjamin, MD, Ann Mitchell, MD, co-directors) enjoys a national reputation for its integration of cognitive neuroscience with psychiatry and neurology training. Jointly sponsored by the departments of Psychiatry and Neurology, this six-year residency features a five-year neuropsychiatry continuity clinic experience that has not been replicated elsewhere. Eligible for specialty boards in both fields, graduates are competent to prac-

tice both psychiatry and neurology with an emphasis on disorders at the brain-behavior interface.

Trainees in the **Forensic** (Paul Noroian, MD, director), **Child and Adolescent** (Mary Ahn, MD, associate director), **Addiction** (Gerardo Gonzalez-Haddad, MD, director), **Psychopharmacology Research** (Anthony Rothschild, MD, director) and **Neuropsychiatry** (Sheldon Benjamin, MD, director) fellowships find mentorship with our numerous faculty experts in these areas and participate in the education of general trainees and medical students.

UMMS psychiatry trainees are encouraged to compete for national fellowships based on academic accomplishment. These awards facilitate involvement in leadership, research projects, advocacy and writing and result in our residents becoming well known among national psychiatry leadership. ■

2009 Incoming Residents*

Program Description	Total Positions	UMMS Graduates	Program Description	Total Positions	UMMS Graduates
Anesthesiology (PGY1)	2		Obstetrics/Gynecology	5	2
Anesthesiology*	8	1	Orthopedic Surgery	4	2
Dermatology*	3	1	Pathology	4	
Emergency Medicine	12		Pediatrics	8	4
Fam Pract/Hahnemann FHC	4	2	Plastic Surgery (PGY1)	2	
Fam Pract/Queen St FHC	4		Psychiatry	4	
Fam Pract/Barre FHC	4		Psych/Child Psychiatry	2	1
Family Pract/Fitchburg	5		Radiology – Diagnostic*	4	
Internal Medicine	28	3	General Surgery	6	1
Medicine Pediatrics	4	2	Surgery-Preliminary	7	
Medicine Preliminary	9		Medicine-Pediatrics	4	
Neurology*	4	1	Psychiatry/Neurology	1	1
			TOTAL	138	21

* Programs match one year in advance. Thus incoming residents in Anesthesia, Dermatology, Neurology and Radiology matched last year. In the 2009 match, 107 of the 115 positions offered (93 percent) filled in the match. Both positions offered in the Osteopathic match were filled, as were positions in the Dental match.

Focus on Graduate Medical Education
Produced by the UMMS Office of Public Affairs
and Publications for Graduate Medical Education

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