



College of Pharmacy

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June 2012

Buolamwini Awarded NIH Grant

John K. Buolamwini, PhD, professor in the Department of Pharmaceutical Sciences at the University of Tennessee Health



Science Center College of Pharmacy has received a grant totaling \$1,107,890 from the National Institute of General Medical Sciences, a subsidiary of the National Institutes of Health. The award will fund Dr. Buolamwini and his research team's viral disease research efforts. The study titled, "A Targeted Preemptive Approach to Addressing Mitochondrial Toxicity of Nucleoside," will be conducted over a four-year period.

We are very excited," said Dr. Buolamwini. "This grant award will enable us to develop a novel targeted pro-drug approach to protecting mitochondria the powerhouses of cells from DNA damaging effects of nucleoside drugs." A major focus of Dr. Buolamwini's research is the design, synthesis and evaluation of new molecules as inhibitors or probes of nucleoside transporters. Nucleoside transporters are membrane proteins that mainly carry nucleosides and nucleoside drugs into cells. They play a significant role in the salvage synthesis of DNA and RNA building blocks, in abrogating the tissue protective effects of the physiological nucleoside adenosine and in the successful treatment with antiviral and anticancer nucleoside drugs. Without sufficient expression of nucleoside transporters, cancer cells are resistant to chemotherapy with drugs like gemcitabine used in the treatment of pancreatic cancer. Nucleoside transporters are also beneficial in treating viral diseases such as HIV/AIDS, viral hepatitis, heart disease and stroke. This research has the potential to expand strategies for decreasing the toxicities associated with nucleoside drug therapies.

UPCOMING EVENTS

TENNESSEE PHARMACISTS ASSOCIATION ANNUAL MEETING

Tuesday-Thursday, July 16-19
Panama City Beach, FL

ROTATION/RESIDENCY SHOWCASE & PRECEPTOR DEVELOPMENT CONFERENCE

Tuesday & Wednesday, August 14 & 15 (Knoxville)
Wednesday & Thursday, August 22 & 23 (Memphis)

PHARMACY GRAND ROUNDS

Drs. Stephan Foster and Candace Brown
Thursday, August 30
12 noon CT in GEB A304 (Memphis)
1pm ET in 220 (Knoxville)

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TOP STORIES

Foster Inducted into National Academies of Practice

Stephan Foster, PharmD, FASHP, CAPT (ret) USPHS was inducted into The National Academy of Practice (NAP) on March 24, 2012 in Washington, DC. NAP is a non-profit organization comprised of elected and distinguished practitioners and scholars from 10 of the primary health professions whose role is to advise public policy makers on healthcare issues. Only 150 distinguished members can be elected to a specific academy. Drs. Brad Boucher, Rex Brown, Peter Chyka, James Hoffman and Stephanie Phelps are also members of the Pharmacy Academy. Dr. Foster retired from the U.S. Public Health Service in 1998, where he served as a Pharmacist Clinician. He currently serves as professor and vice chair for Community Health in the Department of Clinical Pharmacy.



*Left to Right- Dr. Cynthia Boyle (PharmD),
Dr. Stephan Foster (PharmD) and Arthur Hazelwood (DDS)*

Waddell Receives Lifetime Achievement Award



J. Aubrey Waddell, PharmD, FAPhA, professor of Clinical Pharmacy at the University of Tennessee College of Pharmacy, will receive the Dean's Award for Lifetime Achievement from the University of Arkansas for Medical Sciences (UAMS) College of Pharmacy. A native of Stamps, AR and a graduate of Sylvan Hills High School in Sherwood, AR, he earned both a bachelor of science (1983) and doctorate in pharmacy (1996) at the UAMS College of Pharmacy. In addition, he earned a Master of Arts degree in business administration (1987) from Webster University. Dr. Waddell is married for 27 years to Debbie McKinney Waddell and they have two sons, Alex and Austin.

MORE TOP STORIES

Waddell Receives Lifetime Achievement Award – continued

Dr. Waddell, who also serves as an oncology pharmacist at Blount Memorial Hospital in Maryville, received the 2011 American Pharmacists Association (APhA) Academy of Pharmacy Practice and Management Distinguished Achievement Award in Hospital and Institutional Practice. He was selected in recognition of his impact on pharmacy practice within a hospital setting, including medication treatment for oncology patients and training of students and residents. He also was named a distinguished member of the U.S. Army Medical Department Regiment in 2005. In 2000 he received the Mel Liter Award as U.S. Army Clinical Pharmacist of the Year and in 1999 he was inducted into the Order of Military Medical Merit. Dr. Waddell completed residencies in hospital pharmacy practice (1992) and hematology-oncology pharmacy practice (1996) at Walter Reed Army Medical Center. He is a retired lieutenant colonel of the U.S. Army and was on active duty as a pharmacy officer from 1984 to 2005, serving in a variety of positions in Georgia, Arizona, the Republic of Korea, New Jersey, Texas, and Washington, DC. He is board certified in oncology pharmacy and is a fellow of APhA. Dr. Waddell is co-editor of the book *On Being a Pharmacist: True Stories by Pharmacists*, published in 2010, co-author of the book *Guide to Combination Cancer Chemotherapy Regimens*, published in 2011, and writes the oncology chapter for the book *APhA's Complete Review for Pharmacy*. He has been a contributing editor for *Hospital Pharmacy* since 1999. He has authored or co-authored over 200 papers and abstracts, primarily in the field of oncology pharmacy.

Find the complete article at the following link: <http://pharmcollege.uams.edu/news/?sid=54&nid=9468&id=11481>

Armstrong Elected Phi Delta Chi Mid-Atlantic Regional Correspondent

Drew Armstrong, fourth year student pharmacist, was recently elected to serve as the Regional Correspondent for the Mid-Atlantic Region of Phi Delta Chi (PDC) at the recent regional conference held in Johnson City. With this position, Drew will be the contact person for all chapters in the region for questions about monthly reports and will serve as the



link between the national office and the individual chapters. The UT College of Pharmacy PDC Omega chapter had 12 members in attendance at this meeting and all had a great time and learned the inner workings of what makes a chapter operate. Drew served as pledge class president his first year and as the P3 Liaison and stand-in Alumni Liaison this past year with PDC. Drew grew up in Oak Ridge. He earned a BA in BiochemisKnollstry from Maryville College. He decided to pursue a career in pharmacy with a desire to positively impact the lives of all patients through patient-centered care.



MORE TOP STORIES

Special Honors at P1 White Coat Ceremony

The White Coat Ceremony for the UT College of Pharmacy class of 2015 was held on May 1, 2011 at First Baptist Church in Memphis. Traditionally the White Coat Ceremony celebrates the transition from first year students to student pharmacists and acknowledges their accomplishments. This year students introduced a new idea into the ceremony. Students saw how they had prospered in their first year and knew that their accomplishments were largely in part to the encouragement and help of others. Charles Johnson, first year class president, says, "We wanted to take the opportunity to recognize others who have been key in our success to date in our professional endeavor."

The first year students chose to acknowledge Dean Marie Chisholm-Burns, Dr. Vivian Loveless and Mr. Tyrone Knolls by presenting them with a framed white coat of their own. Dean Chisholm-Burns was chosen for her student first focus that has already been noticed during her tenure, Dr. Loveless for her guidance, trustworthiness and willingness to help the students and Mr. Tyrone Knolls for his true concern for the well-being (spiritual, emotional and general) of each student pharmacist.

Mr. Tyrone Knolls is a security guard in the lobby of the pharmacy building in Memphis. At the beginning of the fall semester, he requested a composite list of the first year class and within two weeks was greeting every student by name as well as students from the other classes, faculty and staff. Mr. Knolls has been noted to go out of his way to provide a cheerful word of encouragement when he recognizes that someone is in need. One week when Mr. Knolls was suffering from severe cold with extreme congestion, he still maintained a cheerful attitude with his usual words of encouragement. Students were quick to return the care and provided everything possible to aid in his health.



Mr. Tyrone Knolls (left) receives his award from student pharmacists Molly Kinsella and Nathan Owen

MORE TOP STORIES

Pharmacy Job Growth Projected

A career in pharmacy is one of the top careers in the country, according to rankings released by *U.S. News and World Report*. Pharmacist is ranked third in the annual listing of jobs across the nation, and second in the health care category. The report stated, "Job prospects should be excellent in the field in the years to come, and the earnings potential remains relatively high. According to the Bureau of Labor Statistics, the field is expected to grow by 25.4 percent between 2010 and 2020, with the field adding 69,700 new jobs. While the market has cooled a bit from several years ago, experts say an aging population and increasingly complex medicines will keep industry growth healthy for years to come. A recent focal point in the industry is medication therapy management, or MTM, [which should increase the demand for pharmacists]."



Find the complete article at the following link: <http://money.usnews.com/careers/best-jobs/pharmacist>

Class of 2012 Employment



Eighty six percent (151 out of the 176 students) of UTHSC Pharmacy graduates have confirmed jobs before graduation. While other pharmacy programs in Tennessee report low employment numbers for their graduates, UTCOP graduates are defying the trend. "These employment numbers are outstanding," Marie Chisholm-Burns, dean of the College of Pharmacy, said. "They clearly reflect that the depth and experience of our program, combined with the incredible strength of our faculty, staff and leadership, make a tangible difference in our graduates' ability to succeed fresh out of the gate, at the very outset of their careers." - *Memphis Business Journal*

Find the complete article at the following link: http://www.bizjournals.com/memphis/news/2012/05/25/uthsc-college-of-pharmacy-flaunts.html?ana=e_du_pub&s=article_du&ed=2012-05-25

FACULTY

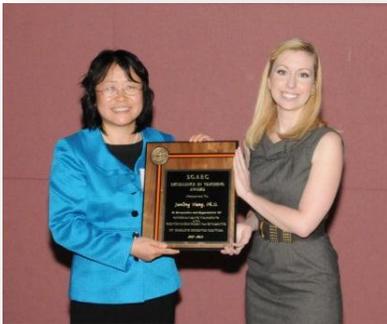
Farr Receives IRIS Award

Glen Farr, PharmD, professor and associate dean of Continuing Education at the University of Tennessee College of Pharmacy, was awarded the IRIS award by the Knoxville District Dietetic Association. This award is presented annually to a non-dietician who has contributed to the dietetic/nutrition profession. Dr. Farr teaches several guest lectures on various topics and some presentations on drug-food interactions to the dietetic interns at University of Tennessee at Knoxville and local, state and national dietetic groups.



FACULTY

Faculty Recognized at SGAEC Banquet



Several College of Pharmacy faculty were recognized at the UTHSC Student Government Association Executive Committee (SGAEC) Awards Banquet.

Dr. Junling Wang (top left) received the “SGAEC Excellence in Teaching Award” from the College of Graduate Health Sciences. Dr. Charles Handorf, chair of Department of Pathology, received the UT Alumni Association Public Service Award. Dr. Handorff (top right) received a PhD from the College of Pharmacy’s Medicinal Chemistry department in addition to his MD degree from UTHSC. Dr. Shannon Finks (middle left) received the UT Alumni Association “Outstanding Teachers Award” for the College of Pharmacy. Congratulations to Dr. Andrea Franks (middle right) and Dr. Duane Miller (bottom left) who received the “SGAEC Excellence in Teaching Awards” from the College of Pharmacy.



In addition, Dr. Chasity Shelton’s Student Team (right) was recognized as winner of the Health Care Challenge Competition for the Health Sciences Center Campus.



From left to right – Vice Chancellors Ken Brown and Cheryl Scheid; Chasity Shelton; Karen Wong, first-year medical student; Tara Ta, first-year medical student; Mary Austin Smith, second-year dental student; Vata Sitimascharoen, first-year student pharmacist; Holly Norwick, first-year medical student; Laura Matthews, second-year dental student; Mythili Chunduru, first-year pharmacy student; Chancellor Steve Schwab

FACULTY

Li Receives NIH Instrument Grant

Wei Li, PhD, associate professor of Pharmaceutical Sciences at the University of Tennessee Health Science Center (UTHSC) College of Pharmacy, serves as the principal investigator of a grant totaling \$325,000 from the Office of the Director, a subsidiary of the National Institutes of Health. The grant supported the purchase of a state-of-the-art quadruple time-of-flight (Q-TOF) high-resolution mass spectrometer. “We are very grateful to the strong institutional support from the College of Pharmacy and the campus administration, which is very important for the success of this grant,” said Dr. Li. “This is the second NIH shared-instrument grant we obtained recently. A similar grant was awarded in late 2010 for the purchase of a new 400 megahertz (MHz) NMR (nuclear magnetic resonance) system. The addition of the 400 MHz NMR and this new high-resolution mass spectrometer will significantly enhance the research capability provided to investigators across the campus by our shared-instrument facility.” This instrument will support many extensive small-molecular drug discovery and drug delivery programs for faculty at UTHSC in the areas of cancer, obesity, diabetes, radiation protection, radiation mitigation, bacterial infections, and inflammatory diseases. In addition, local biotechnology companies such as GTx, Inc., and RxBio, Inc., will also benefit from indirect access to the new instrument that is pictured above with Dr. Min Xiao, a second year graduate research assistant.



Second Annual Pharmacokinetics Course Held



On April 16-20, 2012 the UT College of Pharmacy held its second annual training course on “Pharmacokinetics and Pharmacodynamics of Protein Therapeutics: Concepts and Hands-On Analysis.” The course was directed by Dr. Johan Gabelsson from the Swedish University of Agricultural Sciences in Uppsala, Sweden and Dr. Bernd Meibohm from the

UT College of Pharmacy who taught a 5-day course that introduced the participants to basic principles in the pharmacokinetic and pharmacodynamic evaluation and simulation examples of novel protein drugs. At its second offering, the course attracted 46 participants, including scientists from the Food and Drug Administration and pharmaceutical companies from China, Denmark, Finland, France, Germany, Sweden, the United Kingdom, and the United States. Based on its success the course has already been scheduled for April 15-19, 2013.

FACULTY PUBLICATIONS

Mehrotra N, Tang L, Phelps S, Meibohm B. Evaluation of vancomycin dosing regimens in preterm and term neonates using Monte Carlo simulations. *Pharmacotherapy*. 2012 May; 32(5):408-19; DOI: 10.1002/j.1875-9114.2012.01029.x (Article first published online: 9 APR 2012)

McFarland M, Davis K, Wallace J, Wan J, Cassidy R, Morgan T, Venugopal D. Use of home telehealth monitoring with active medication therapy management by clinical pharmacists in veterans with poorly controlled Type 2 diabetes mellitus. *Pharmacotherapy*. 2012 May; 32(5):420-6; DOI: 10.1002/j.1875-9114.2011.01038.x (Article first published online: 9 APR 2012)

Ray SM, McMillen JC, Treadway SA, Helmer RS, Franks A. Indacaterol: a novel long-acting β_2 -agonist. *Pharmacotherapy*. 2012 May; 32(5):456-74; DOI: 10.1002/j.1875-9114.2012.01025.x (Article first published online: 12 APR 2012)

STUDENTS, GRADUATE STUDENTS AND RESIDENTS

Help Our Students Help Haiti



UTCOP student pharmacists are planning a second mission trip to the Whitney Clinic in Hinche, Haiti this summer. Last year our student pharmacists saw over 300 patients and assisted in treatment decisions and appropriate antibiotic substitutions/stewardship. This was especially important because the clinic has a very limited formulary due to most of their medications coming from donations. The student pharmacists also educated staff on proper storage, administration of diabetic supplies and were the responsible for triaging patients into the clinic. Probably the biggest contribution made was in compounding adult medications into preparations appropriate for

pediatrics. Approximately 35% of our patients at this clinic were too young to swallow pills. Student pharmacists also donated money to pay for a Dutch door in the pharmacy to increase safety and patient care, organized their supply room to maximize the limited resources, volunteered at the soup kitchen on the campus, and donated soccer balls and clothing to the children of Hinche. The church provides free housing and meals for the volunteers, but our students must fund their own travel to Hinche, vaccinations, travel preparation, and vector-borne disease prophylaxis. Recent changes to student loans have resulted in a greater financial burden on our students. Any support you could offer would be greatly appreciated. Checks can be made out to "ASP" and mailed to:

Rachel Bauer, P4 Student Pharmacist
University of Tennessee College of Pharmacy
Knoxville Campus
1924 Alcoa Hwy, Box 117
Knoxville, TN 37920

Thank you very much for your support!

STUDENTS, GRADUATE STUDENTS AND RESIDENTS

Students Inducted into Imhotep Leadership Society



Yearly at the Student Government Association Executive Committee (SGAEC) Banquet, students from all colleges on the UTHSC campus are inducted into the Imhotep society. Imhotep is named after the Egyptian god of medicine and is a campus organization to recognize students who, because of their service and leadership, have significantly contributed to student life on this campus. UTCOP had 54 members inducted this year.

Drew Armstrong
Haley Armstrong
Hamilton Borden
Cynthia Brasher
Jesse Butler
Marisa Campbell
Nathan Cope
Brooke Crocker
Zachary Delaney
Joshua Deweese
Anna Dutton
Kelly Dyer
Alftan Dyson
Audra Earnheart

Whitney Elliott
Sarah Fitzgerald
Jocasta Gee
Zachary Germann
Justin Griner
Scott Harris
Lindsay Hubbard
Coral Iserhienrhien
Sarah Jackson
Clayton Johnston
Rachel Kile
Kim Kleinaitis
Jeffrey Larsen
Jonathan Lister

Jacob Marler
Ashley Marshall
Mary Margaret
Maxwell
Kelly Monteen
Tiffany Nason
Miren Patel
Grayson Peek
Megan Perry
Julie Phillips
Lindsey Plogger
Supriya Ponnappula
Kirsten Roberts
Lindy Rodery

Melissa Rutherford
Mya Santos
Binoy Shah
Brandon Sipe
Keaton Smetana
Leslie Smith
Jana Sterling
Shundraneka Thaxter
Zachary Thomas
Kayla Werner
Phillip Wilkins
Brian Winbigler
Cortney Wong

Tennessee Pharmacist Association OTC Competition Team

UTCOP's OTC Competition Team for 2012

1. Rachel Kile (P3)
2. Samantha Boldin (P2)
3. Kathryn Qualls (P1)
4. Susan Dickey (P1)

- Alternates
1. Dallas Hofmann (P2)
 2. Katelyn Wassell (P1)



The competition will take place at the Tennessee Pharmacist Association (TPA) Annual Meeting and will be part of the CE programming in Panama City Beach, FL on July 17, 2012. The event is designed for teams to compete head-to-head in an event similar to a quiz bowl as they answer questions focused on patient self-care. The winning team gets to take "Home" to their college/school a trophy that they get to keep for the year. This year UTCOP will be competing with students from Union University, Belmont University, Lipscomb University, and East Tennessee State University.

STUDENTS, GRADUATE STUDENTS AND RESIDENTS

ASP Public Service Announcement and Hunger Games Videos

UTCOP APhA-ASP chapter created a video asking the incoming student pharmacists at Casino Night “How Great Can You Be?” The chapter created the video to get their future members excited about the chapter and to foster pride among current members by highlighting the chapter’s 13 patient care committees, current students’ experiences and encouraging everyone to make a difference in the lives of their patients.

<http://www.youtube.com/watch?v=yoMzrp71NYk>

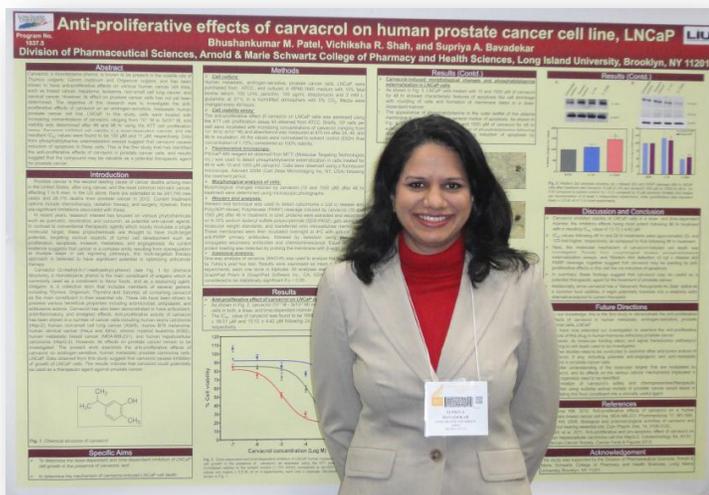
UTCOP APhA-ASP chapter also created a parody of *The Hunger Games* movie, called the “The Plogger Games”, which promotes involvement in patient care. UTCOP students participate in many different patient care projects and rank among the top students in the nation. Students, faculty and staff have worked hard to create this video to promote and demonstrate the types of patient care projects students are involved in.

<http://www.youtube.com/watch?v=MTihVZKjVPQ&feature=youtu.be>



ALUMNI AND FRIENDS

Bavadekar Research Findings Receive Worldwide Media Attention



Dr. Supriya Bavadekar, assistant professor of Pharmacology at Long Island University’s Arnold & Marie Schwartz College of Pharmacy and Health Sciences is studying carvacrol, a chemical in oregano, and its anti-cancer properties. The preliminary reports show promising results for future drug development with 100 percent growth inhibition and apoptosis of cancer cells. Dr. Bavadekar received her pharmacy degree from India, a PhD from the University of Mississippi before coming to UTCOP on the advice of Dr. Duane Miller PhD. Dr. Bavadekar completed a post-doctoral fellowship with Dr. Bob Moore in the Department of Pharmaceutical Sciences and Dr. Katie Suda in the Department of Clinical Pharmacy.

Dr. Bavadekar’s research is highlighted in the following link: <http://www.foxnews.com/health/2012/04/24/oregano-shown-to-effectively-destroy-prostate-cancer-cells/>

ALUMNI AND FRIENDS

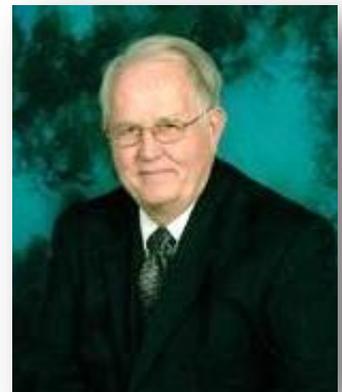
Condolences

The College notes with sadness the passing of **Charles Dormer Akins**, DPh, MD (right), of Memphis at age 68. A 1966 graduate of the University of Tennessee College of Pharmacy, Dr. Akins served his country in the U.S. Public Health Service from 1966 to 1968. He then returned to UTHSC, earning his medical doctor degree in 1973. He pursued a practice of anesthesia until he was diagnosed with pancreatic cancer in January 2012.



The College also notes with sadness the passing of **William J. "Bill" Bryant**, DPh (left), of Knoxville, at age 94. Dr. Bryant graduated from the University of Tennessee College of Pharmacy in 1940 and was president and first in his class. In 1944, he founded the Bryant Drug Company, serving Fountain City for 25 years. He served as president of the Tennessee Board of Pharmacy and the Knoxville Pharmaceutical Association. He also owned Valley Drug in Clinton and, in lieu of retirement, spent the last years of his career working for various pharmacies in the Morristown area.

The College extends our sympathy to the family of **Rev. Ronald Ervin Harvill**, DPh (right), of Columbia, on his passing at age 64. A 1971 graduate of the University of Tennessee College of Pharmacy, Dr. Harvill had owned the Drug Center and worked at Revco, CVS, and Fred's.



The College also extends our sympathy to the family of **Thomas Michael Wheeler, Jr.**, DPh (left), of Shelbyville, on his passing at age 57. A 1981 graduate of the University of Tennessee College of Pharmacy and a long-time Tennessee Pharmacist Association member, Dr. Wheeler was a pharmacist at Heritage Medical Center in Shelbyville.

Acknowledgements

Special thanks to Hamilton Borden and Khushbu Chaudhari for their invaluable contributions to this edition of the newsletter.



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The University of Tennessee College of Pharmacy

Please submit news items to dbyrd4@uthsc.edu

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