The University of Kentucky College of Pharmacy made great strides to improve human health in 2013. Our students, faculty, staff, alumni and friends continued to carry on the proud tradition of excellence and pioneering innovation for which this College is known.

Throughout this piece, we will showcase some of our 2013 highlights. Our intent was to keep this annual report interactive with shorter text and plenty of photos and graphics. If you would like more information about anything in this piece, view our website at http://pharmacy.mc.uky.edu/.

Tim Tracy, Dean
We often say that the strength of our College is found in our people. The College’s $13.5 million budget perfectly shows this. Ninety-three percent (93%) of the College’s annual operating budget is spent on employee salaries and benefits. That speaks to our commitment to being efficient and effective stewards to those that show great faith in us: our students, Kentucky taxpayers, and our generous donors.
DONORS SUPPORT COLLEGE WITH $2M IN GIFTS

Thanks to the generosity and encouragement of our nearly 1,000 donors, the College raised more than $2 million in private philanthropy in 2013. Whether supporting student scholarship programs, leading-edge research and service, or programs that enhance pharmacy practice, our donors help make a real difference in the life of the College.

For a full listing of our donors for the year, please see the appendix. For those wanting to learn more about giving back to the College, visit http://pharmacy.mc.uky.edu/alumni/giving.php.
The news of Thomas S. Foster’s death shocked everyone. His family. His friends. His colleagues. His former students.

Though everyone that cared for Dr. Foster knew that they had to do something to recognize the impact he had on countless lives, it took some time to figure out how best to honor his remarkable legacy.

“I know everyone was grieving just as our family was grieving,” said Marijo Foster, Dr. Foster’s wife. “By waiting, I feel that the College was able to develop a more meaningful and thoughtful way to remember Tom.”

In 2013, the UK College of Pharmacy announced the establishment of the Thomas S. Foster Professorship.

As part of that tribute to Dr. Foster, the College held the inaugural Thomas S. Foster Leadership Day on October 24, 2013. It was a tribute to two of Dr. Foster’s passions: leadership and mentorship, and engaged generations of the UK College of Pharmacy family. Featuring the Foster family, colleagues, and former students, the day helped the College remember his profound legacy.

“That day meant a lot to our family,” said Marijo. “It was a very happy day; it was very touching to see that so many people cared so much for Tom.”

However, the ultimate recognition of Dr. Foster’s legacy will be with the Thomas S. Foster Professorship. To ensure that Dr. Foster’s spirit of leadership is forever remembered, the UK College of Pharmacy is working to fully fund the professorship.

One of the early donors to the fund is faculty member and alumnus Dan Wermeling, who studied under and alongside Dr. Foster throughout his pharmacy career.

“This College makes the difference in people’s lives because it has always been home to people who care for others and who take the time to mentor others,” said Dr. Wermeling. “When I think of the ultimate mentor – the person that was always encouraging and challenging others to achieve their full potential – I immediately think of Tom Foster. He always took time out of his schedule to help any student in their career path, and we need to ensure his student-first spirit remains a hallmark of this College.

“That is why I have chosen to donate to the Thomas S. Foster Professorship, and I hope you will join me in doing the same.”

Those wanting to donate to the Thomas S. Foster Professorship can contact the College’s Director of Development, Bobbi Silver, at (859) 323-7111 or bobbi.silver@uky.edu.
education
The UK College of Pharmacy continued to educate some of the best and brightest future pharmacists and pharmaceutical scientists in the world in 2013.

The College awarded 145 students with degrees in 2013. The College held its annual Graduation Recognition Ceremony on May 3 at the UK Singletary Center for the Arts.

Of those completing requirements for degrees, 124 students were awarded the Doctor of Pharmacy (PharmD) degree, 18 students earned a PhD in pharmaceutical sciences and three students received a Master’s degree in pharmaceutical sciences.

PROFESSIONAL PROGRAM

Several UK College of Pharmacy PharmD students received prestigious national honors during this past academic year. The following students are keeping this proud UK College of Pharmacy tradition alive.

POLLEY RECEIVES ASHP STUDENT LEADERSHIP AWARD

Stephen Polley, a fourth-year PharmD student in the University of Kentucky College of Pharmacy, was selected as a 2013 recipient of the American Society of Health-System Pharmacists (ASHP) Student Leadership Award.

Polley, from Tollesboro, Kentucky, was selected because of his “achievement in health-system pharmacy practice and campus leadership.” He was one of 11 pharmacy students across the nation that was selected to receive this honor.
Alexis (Lexi) Kjellsen, a third-year PharmD student from Richmond, Kentucky, was accepted into the Johns Hopkins Hospital Pharmacy Internship Program. Kjellsen is one of 20 pharmacy students across the nation to have this opportunity. She spent the summer of 2013 as the Johns Hopkins Outpatient Administration Intern.

Kjellsen followed in the footsteps of other UK students who have had this opportunity, including Alex Flannery, a 2011 graduate of the UK College of Pharmacy, and Casey Combs, a 2013 PharmD graduate from the College, and Stephen Polley.

Christopher Terry, a third-year PharmD student from Owensboro, Kentucky, was accepted into the Mayo School of Health Sciences Summer Pharmacy Internship. Terry, who is President of the Class of 2015, was one of four pharmacy students from across the nation selected to take part in this program.

This was the second consecutive year a UK pharmacy student was selected to participate in the Mayo Intern Program. In 2012, Zachary Thompson, a student from Cadiz, Kentucky, was chosen as an intern.

In December 2013, UK College of Pharmacy alumnus Sam Wornall completed a nontraditional postgraduate year two residency in Infectious Diseases, which was cosponsored by St. Claire Regional Healthcare and the UK College of Pharmacy. The residency was the first such initiative for the College, and is a demonstration of the College’s commitment to enhancing postgraduate clinical education with our partners across Kentucky.

In July 2013, the College established a new relationship with a cutting edge clinical partner, Bluegrass Community Health Center. The fast-paced clinic is a federally-qualified health center and a patient-centered medical home. Drs. Melanie Mabins and Holly Divine provide care to a wide range of patients in the clinic.

KJELLEN NAMED JOHNS HOPKINS INTERN

RESIDENCIES

TERRY NAMED MAYO CLINIC INTERN
HICKSON NAMED EXPRESS SCRIPTS SCHOLAR

Ryan P. Hickson, a third-year PharmD/Master of Public Health candidate from Jeffersonville, Indiana, was one of four students from across the country to be named an Express Scripts Scholar.

LKS NAMED CHAPTER OF THE YEAR

The UK College of Pharmacy student chapter of Lambda Kappa Sigma (LKS) was named the Southern Region Collegiate Chapter of the Year at the LKS Convention in Boston in July 2013.
The College is currently engaged in a curricular reform process that is targeting Fall 2015 implementation of a new and innovative Doctor of Pharmacy degree program that will change both the content of the current curriculum as well as its method of delivery to students. Alumni, faculty and students have been engaged in the reform process since 2012. Driven by the College’s strategic plan, the revised curriculum is intended to better prepare graduates for contemporary as well as future pharmacy practice while exploiting technology and other modern education-based systems. The reformed curriculum will emphasize personal accountability for learning and take advantage of more integrated courses that blend basic and clinical sciences.

REFORMING OUR PHARMD CURRICULUM

In February 2013, the UK College of Pharmacy became the first pharmacy school in the nation to design an app to help students prepare for the national pharmacy board examination. Called the “NAPLEX Exam Prep” app, the product was designed by faculty members Frank Romanelli and Jeff Cain and functions as a flash card quiz. It will allow students to test their knowledge on the type of questions they can expect to see on the NAPLEX – right on their mobile devices.

The app represents the College’s first foray into the burgeoning app market. The NAPLEX Exam Prep app is a product of clickblue, the College’s innovative online educational platform that provides professional development offerings to pharmacists across the state, the nation and the world.

GRADUATE PROGRAM
The College’s renowned Graduate Program in Pharmaceutical Sciences had several students recognized locally, regionally and nationally for their work in the classroom and laboratory in 2013.

TWO GRADUATE STUDENTS RECEIVE PRESTIGIOUS FELLOWSHIPS
In June 2013, the College announced that Kimberly Carmony and Theresa Downey, graduate students in the Department of Pharmaceutical Sciences, received American Foundation for Pharmaceutical Education (AFPE) Fellowships for the 2013-2014 academic year. Carmony is studying alongside mentor Kyung-Bo Kim, while Downey’s mentor is Jürgen Rohr.

MUMPER NAMED OUTSTANDING GRADUATE PROGRAM ALUMNUS
Russell J. Mumper, a UK College of Pharmacy alumnus and former faculty member, was named the 2013 University of Kentucky Outstanding Graduate Program Alumnus for the Pharmaceutical Sciences.

EXCELLENCE IN GRADUATE STUDIES RECOGNIZED
- UK Nanotechnology Training Center Fellowship ($30,000) – Mo Dan, Kyle Fugit
- NIDA Training Grant Fellowship ($22,032) – Chelsea Geil
- NIH Interdisciplinary Cardiovascular Training Grant ($22,032) – Sonja Pijut

Graduate School Fellowships
- Graduate School Kentucky Opportunity Fellowship ($15,000) – Lin Ao
- Graduate School Academic Year Fellowship ($7,500) – Nilay Thakkar, Anwesha Goswami
- Graduate School Lyman T. Johnson Academic Year Fellowship ($7,500) – Oreoluwa Adedoyin, Rene Gonzalez
- Graduate School Daniel R. Reedy Quality Achievement Fellowship Award ($3,000 each) – Zachary Miller, Derek Reichel

Internal Travel Awards
- Peter G. Glavinos Jr. Graduate Student Travel Award ($500) – Nilay Thakkar
- S. Elizabeth Helton Travel Award ($500) – Christopher Stamatkin
UK College of Pharmacy researchers received nearly $20 million in collaborative research funding in 2013. At a time when federal funding for research has become increasingly competitive, the College’s research faculty and staff fared well as our primary research funding – finding for UK College of Pharmacy investigators only – increased again.

<table>
<thead>
<tr>
<th>Fiscal Year</th>
<th>Primary Totals*</th>
<th>Collaborative Totals*</th>
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<tbody>
<tr>
<td>2013</td>
<td>$12,205,315</td>
<td>$19,483,673</td>
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<td>2012</td>
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<tr>
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<td>$19,907,819</td>
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UK College of Pharmacy faculty produced

233 Publications
15 Book Chapters
4 Books

COLLEGE OF PHARMACY PROPOSAL SUBMISSIONS BY FISCAL YEAR

Fiscal Year
FY09 FY10 FY11 FY12 FY13
0 20 40 60 80 100 120

108 108 66 109 120
A University of Kentucky research study published in the Journal of the American Medical Association (JAMA) is the first to be recognized as a UK College of Pharmacy Research Publication Highlight of the Year. Every month the College honors the best research publication submitted by faculty, postdocs and graduate students as a way to recognize outstanding research and scholarship generated within the College. Out of the 12 monthly publication recipients in 2013, the JAMA article received the top award for 2013. The title of the publication is “Association Between Pseudoephedrine Sales and Reported Clandestine Methamphetamine Laboratory Seizures in Kentucky.” The authors are Jeffery Talbert, Karen Blumenschein and Trish Freeman, each of whom is a faculty member in the College’s Institute for Pharmaceutical Outcomes and Policy (IPOP). Former pharmacy staff member Amy Burke and Arnold Stromberg from UK’s Department of Statistics are also co-authors on this publication highlight of the year.

2013 Research Publication Highlight Award Recipients

The title of the publication is “Association Between Pseudoephedrine Sales and Reported Clandestine Methamphetamine Laboratory Seizures in Kentucky.” The authors are Jeffery Talbert, Karen Blumenschein and Trish Freeman, each of whom is a faculty member in the College’s Institute for Pharmaceutical Outcomes and Policy (IPOP). Former pharmacy staff member Amy Burke and Arnold Stromberg from UK’s Department of Statistics are also co-authors on this publication highlight of the year.
The College’s Center for Pharmaceutical Research and Innovation (CPRI) are always looking for a new way to solve the riddle of disease. Being based out of Kentucky, CPRI Director Jon Thorson decided to go underground in his newest endeavor.

The most recent “new frontier” that Thorson’s lab is exploring has very deep roots in the Commonwealth — literally and figuratively. Through the collaborations with the Center for Applied Energy Research (CAER) and the Kentucky Geological Survey (KGS), CPRI is studying samples from Kentucky underground and surface coal mines, thermal vents from underground coal mine fires, mining reclamation sites, and deep-well core drilling operations for carbon sequestration.

It’s all part of a new UK-based bioprospecting initiative, which involves a collaboration between CPRI, CAER and KGS. The idea behind the program is to collect samples from unusual environments throughout the Commonwealth, with the goal of finding new, unique organisms that produce natural products that could potentially be used to develop new drugs with an initial focus on treatments for cancer, infectious disease and inflammation.

Dr. Thorson’s team has already deposited over 100 compounds in the new UK natural products repository — and all have come from microbes that were found in the Commonwealth. Which begs the ultimate question:

Could Kentucky’s natural landscape potentially yield the next big cancer drug?
CPRI ADVANCES COLLEGE’S RESEARCH, ECONOMIC DEVELOPMENT CAPABILITIES

The Center for Pharmaceutical Research and Innovation (CPRI) provides services, state-of-the-art facilities and unique expertise that broadly facilitate UK translational research irrespective of a disease focus.

CPRI scientists look to engage life science investigators across the University community and beyond to create synergistic opportunities in research and economic development. In addition to providing cores for medicinal chemistry, chemoinformatics, assay development/screening and in vivo toxicology/pharmacology, the CPRI maintains an expanding natural products repository exclusive to the University of Kentucky. This repository includes a range novel microbial natural products and their producing organisms isolated from unique environments throughout the Commonwealth as well as a range of differentially glycosylated microbial and plant-based natural products generated via proprietary Center technologies.

The Center began operations in early 2012 and as of the end of 2013 has engaged in over 15 collaborative UK investigator-initiated translational projects that span a range of therapeutic areas (including anti-infective development, cancer, cardiovascular disease, drug abuse, inflammation, neurodegenerative disease and regenerative medicine). CPRI plans to expand its engagement in 2014 and establish a sustainable funding model to continue the work of the Center.
**IPOP LEVERAGING BIG DATA TO MAKE BETTER DECISIONS**

The Institute for Pharmaceutical Outcomes & Policy (IPOP) is an interdisciplinary research center in the UK College of Pharmacy, which seeks to improve the health of individuals and populations through research, consultation, training, and community engagement on the safe, efficient, and effective use of pharmaceuticals.

In 2013, IPOP received over $3 million in grants and contracts. IPOP serves as the Biomedical Informatics Services Core for the University of Kentucky’s Center for Clinical and Translational Science (CCTS), and also developed the UK Enterprise Data Trust (EDT). The EDT is a shared governance data environment that manages all IPOP and CCTS data warehouses, including UK HealthCare, Medicaid, Humana, United Health Care and others.

**90% OF THE DATA IN THE WORLD TODAY HAS BEEN CREATED IN THE LAST TWO YEARS ALONE.**

The explosion of data generation and collection has created a unique and exciting opportunity for IPOP. Our business model is to acquire interesting data to support innovative research and education.

For more information on IPOP, visit our website:
https://ipopcop.uky.edu/

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**CAPP LEADS COLLEGE’S EFFORTS TO ENHANCE PHARMACISTS**

The Center for the Advancement of Pharmacy Practice (CAPP) was established by the College in 2012, with the charge of working with practitioners across Kentucky and beyond to advance the practice of pharmacy.

In 2013, CAPP continued to learn more about and share information on sustainable models of practice that improve medication use and health outcomes across practice settings.

In April, CAPP hosted the second Advancing Pharmacy Practice in Kentucky Summit in collaboration with its partners, the Kentucky Pharmacists Association (KPhA), the Kentucky Society of Health System Pharmacists (KSHP), the Kentucky Board of Pharmacy, the Sullivan University College of Pharmacy and the American Pharmacy Services Corporation (APSC) Foundation for Education and Research.

The Summit helped to redefine and refocus the efforts of the Advancing Pharmacy Practice in Kentucky Coalition, an alliance of individuals from across diverse pharmacy practice settings in Kentucky, with a common goal of advancing the practice of pharmacy in Kentucky. The Coalition continued its efforts in 2013 to obtain non-physician provider status; expand Collaborative Care Agreements; and to identify other long-term initiatives for advancing pharmacy practice.

For more information on CAPP, visit our website: http://pharmacy.mc.uky.edu/capp/

For more information on the Advancing Pharmacy Practice in Kentucky Coalition, visit and like us on Facebook:
https://www.facebook.com/KYPharmCoalition

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For more information on the Advancing Pharmacy Practice in Kentucky Coalition, visit and like us on Facebook:
https://www.facebook.com/KYPharmCoalition
Since 1870, the UK College of Pharmacy has been known for its innovative spirit and commitment to serving communities across Kentucky and beyond. This College also has established a reputation of developing pharmacy leaders. In 2013, the College built upon those proud traditions.

outreach

UK, HUMANA AND PFIZER LAUNCH UNIQUE COLLABORATIVE PARTNERSHIP

Three of the world’s leading health care organizations launched an educational collaborative in January 2013 to create a doctoral research fellowship program that will allow a scholar to have an unprecedented view of pharmaceutical policy.

The result of the partnership is the University of Kentucky College of Pharmacy Institute for Pharmaceutical Outcomes and Policy, Humana, and Pfizer Doctoral Research Fellowship Program in Pharmaceutical Outcomes and Policy. This collaboration supports an innovative fellowship program that provides the fellow with the opportunity to receive advanced doctoral research training from the UK College of Pharmacy Pharmaceutical Outcomes and Policy track PhD program, while applying his or her academic knowledge to contemporary pharmaceutical policy and outcomes projects with a premier health insurance company (Humana) and an international pharmaceutical research and manufacturing organization (Pfizer).
The College and Louisville-based Kindred Healthcare, Inc. forged an innovative, collaborative partnership in June 2013 that will provide a pharmacy scholar with a unique glimpse into the future of health care. UK and Kindred have partnered to create the UK College of Pharmacy/Kindred Healthcare Executive Pharmacy Fellowship, which will allow the fellow the opportunity to learn two world-class health care organizations in an executive training program at Kindred Healthcare focused on transitional care delivery methods, practice, and research.
Robert Kuhn, a Professor in the Department of Pharmacy Practice and Science, has been named the Kentucky Hospital Association (KHA) Professor. He is the first UK College of Pharmacy faculty member to hold this professorship.

KHA created this professorship to enhance “clinical hospital pharmacy education and research” throughout the Commonwealth of Kentucky. Dr. Kuhn has been advancing clinical pharmacy in Kentucky since joining the faculty at the UK College of Pharmacy in 1985. He is a specialist in pediatric pharmacy, serving patients at UK’s Kentucky Children’s Hospital.

Dr. Kuhn has been an active member of the faculty since 1985 and has directed the pediatric pharmacy specialty residency program for over 25 years and worked with over 500 students in the PharmD program. His focus has been on cystic fibrosis and pediatric drug therapy and has received numerous awards for his work in pediatrics.

KUHN NAMED COLLEGE’S FIRST KHA PROFESSOR

THREE FACULTY MEMBERS LEADING NATIONAL PHARMACY ORGANIZATIONS

The mission of the College’s Department of Pharmacy Practice and Science is to “promote excellence and provide leadership in the pharmacy profession.” And in 2013, three faculty members are living that mission.

Melody Ryan, faculty member and alumna, served as is president-elect of the American Pharmacists Association – Academy of Pharmaceutical Research and Science.

Kelly Smith, associate dean for academic affairs, was elected to a three-year term on the board of the American Society of Health-System Pharmacists.

Peggy Piascik, the department’s associate chair for professional education advancement, was elected as President of the American Association of Colleges of Pharmacy.

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Peggy Piascik, the department’s associate chair for professional education advancement, was elected as President of the American Association of Colleges of Pharmacy.
Joseph Chappell, a professor in the UK College of Agriculture’s Department of Plant and Soil Sciences, has been named Chair of the UK College of Pharmacy’s Department of Pharmaceutical Sciences. Dr. Chappell will assume the role of Chair on May 15.

Dr. Chappell is an acclaimed natural product scientist and will help develop the College’s expertise in plant-derived drug candidates. His laboratory has embraced student mentoring over the years, generally supporting one or two undergraduate research scholars each year.

Dr. Chappell has been active in UK’s classrooms, teaching a variety of undergraduate and graduate courses over the years. He helped develop UK’s renowned Bachelor’s degree program in Agricultural Biotechnology and has advised many students as part of that program during his UK career.

Dr. Chappell has been involved in commercializing intellectual property discovered in his lab. He has many issued U.S. patents and many pending patent applications and disclosures.
UK COLLEGE OF PHARMACY FACULTY

Aimee R. Gelhot-Adams, assistant adjunct professor, Pharm.D.
Val R. Adams, associate professor, Pharm.D.
Brad Anderson, professor, Ph.D.
Younsoo Bae, assistant professor, Ph.D.
Stephanie Baker, assistant adjunct professor, Pharm.D.
Michael C. Berger, assistant professor, Pharm.D.
Esther Penni Black, associate professor, Ph.D.
Karen Blumenschein, associate professor, Pharm.D.
Ralph Bouvette*, associate professor, Ph.D.
Sara Brouse, assistant adjunct professor, Pharm.D.
Emily Brouwer, assistant professor, Pharm.D., Ph.D.
Paul M. Bummer, associate professor, Ph.D.
David S. Burgess, professor, Pharm.D.
Jeffrey Cain, associate adjunct professor, Ph.D.
Jeffery Carrico, assistant adjunct professor, Pharm.D.
Lisa A. Cassis**, professor, Ph.D.
Joe Chappell, professor, Ph.D.
Tim Clifford, assistant adjunct professor, Pharm.D.,
Aaron M. Cook, assistant adjunct professor, Pharm.D.
George A. Davis, associate adjunct professor, Pharm.D.
Patrick P. DeLuca, professor emeritus, Ph.D.
George Digenis, professor emeritus, Ph.D.
Holly Divine, associate clinical professor, Pharm.D.
Linda P. Dwoskin, professor, Ph.D.
David Feola, associate professor, Ph.D.
Joseph L. Fink III, professor, J.D.
Jeremy Flynn, assistant adjunct professor, Pharm.D.
Patricia Freeman, associate clinical professor, Ph.D.
Brian Gardner, assistant adjunct professor, Pharm.D.
Sylvie Garneau-Tsodikova, associate professor, Ph.D.
Gregory Graf, associate professor, Ph.D.
Daniel Grantz, assistant adjunct professor, Pharm.D.
Peixuan Guo, professor, Ph.D.
Farzin Haque, assistant research professor, Ph.D.
Jimmi C. Hatton-Kolpek, professor, Pharm.D.
Kimberly Hite, assistant adjunct professor, Pharm.D.
Jill Johnson, assistant clinical professor, Pharm.D.
Mikael Jones, associate clinical professor, Pharm.D.
Shelly “Mandy” Jones, assistant clinical professor, Pharm.D.
Kyungbo Kim, associate professor, Ph.D.
Robert J. Kuhn, professor, Pharm.D.
Matthew Lane, associate clinical professor, Pharm.D.
Amber Lawson, assistant adjunct professor, Pharm.D.
Woojin Lee, assistant professor, Ph.D.
Markos Leggas, associate professor, Pharm.D.
Robert A. Lodder, professor, Pharm.D.
Charles D. Loftin, associate professor, Pharm.D.
William C. Lubawy, professor emeritus, Pharm.D.
Melanie Mabins, assistant clinical professor, Pharm.D.
Tracy Macaulay, assistant adjunct professor, Pharm.D.
Barbara L. Magnuson, associate adjunct professor, Pharm.D.
Craig Martin, associate clinical professor, Pharm.D.
Tera McIntosh, assistant clinical professor, Pharm.D.
Patrick J. McNamara, professor, Pharm.D.
Chris Miller, assistant clinical professor, Pharm.D.
Trenika Mitchell, assistant clinical professor, Pharm.D.
Daniela Moga, assistant professor, Pharm.D., MD
Eric Munson, professor, Pharm.D.
Kimberly Nixon, associate professor, Pharm.D.
Daniel Pack, professor, Pharm.D.

James Pauly, professor, Pharm.D.
Mary M. Plascik, professor, Pharm.D.
Anne Policastro, assistant clinical professor, Pharm.D.
Todd D. Porter, associate professor, Pharm.D.
Kenneth E. Record, associate professor, Pharm.D.
Kenneth B. Roberts, professor, Pharm.D.
Jurgen Rohr, professor, Pharm.D.
Frank Romanelli, professor, Pharm.D.
Melody Ryan, associate professor, Pharm.D.
Dan Shu, associate research professor, MD
Shanteri Singh, assistant research professor, Pharm.D.
Kelly M. Smith, associate professor, Pharm.D.
Stephanie Sutphin, assistant adjunct professor, Pharm.D.
Hsin-Hsiung “Daniel” Tai, professor, Pharm.D.
Jeffery C. Talbert, associate professor, Pharm.D.
Stacy A. Taylor, assistant clinical professor, Pharm.D.
Jon Thorson, professor, Pharm.D.
Timothy Tracy, professor, Pharm.D.
Oleg Tsodikov, associate professor, Pharm.D.
Meenakshi Upreti, assistant research professor, Pharm.D.
Steven Van Lanen, associate professor, Pharm.D.
Sarah Walsh**, professor, Pharm.D.
Dave Watt**, professor, Pharm.D.
Daniel P. Wermeling, professor, Pharm.D.
Shane Winstead, assistant adjunct professor, Pharm.D.
John Yanelli**, professor, Pharm.D.
Robert A. Yokel, professor, Pharm.D.
Chang-Guo Zhan, professor, Pharm.D.
Hui Zhang, assistant research professor, Pharm.D.
Fang Zheng, associate research professor, Pharm.D.

*part time  **joint appt.
VOLUNTARY FACULTY (PRECEPTORS)

Our Preceptors help make a UK College of Pharmacy education come to life. The College could not provide the world-class education we provide without the support, knowledge and expertise provided by our Voluntary Faculty. Here is a list of our current Preceptors.

Robert Achterberg
Kevin Adams
Steven Adams
Heath Adams
Jessica Adams
Eyob Adane
Lanny Adkins
Valerie Akers
Jeffrey Akers
Ann Albrecht
Allison Aldred
Stacy Alexander
Shannon Allcron
Paul Allen
Michael Anderson
Staci Anderson
Tara Anderson
Sandra Anderson
Demetra Antimiarios
William Antle
Charla Applegate
Ann Armbuster
Jennifer Armburst
Juli Armitstead
Keith Arnold
Lindy Ashby
Margo Ashby
Jason Ashby
Carrol Ayers

Amy Baehl
Jeffrey Baehn
Jennifer Baier
Tim Baize
Christopher Barger
Ellen Barger
Jennifer Barker
Jerry Barnett
Gregory Bausch
Alice Beane
Traci Beasley
Morgan Beck
Deborah Boltney
Sandy Berger
Steven Berger
James Besier
Hubert Blitter
Eliska Bischoff
Mary Bishop
Claire Boomershine
Brandon Borders
Michael Bosch
Jeremy Bowling
Kevin Bozarth
Megan Bradford
Jackson Bray
Larry Bright
John Brislin
Katy Brogan
Courtney Brown
Keith Brown
Brooke Brown
Wayne Bryant
Lori Buckalew
Matt Buckalew
Sarah Bulgrin
Robert Bunting
Donna Burgess
Allison Burleson
Kyle Burleson
Michael Burleson
Scott Burris
Theresa Burt
Amanda Burton
Jimmy Byrnes
Ashley Cambron
Misty Camp
Kim Campbell
Jeremy Campbell
Beth Boles
Thommas Carter
Susan Case
Jeffrey Cassidy
Amanda Castle
David Catanzaro
Jeffrey Cavanaugh
Phillip Chang
Steven Dawson
Alicia Dawson
Alicia Dawson
Michael DeLuca
Bridger DeName
Vicki Denison
Elae Drayparg
Kristina Dickson
Ken Dove
Debbie Duckworth
James Dunaway
Leslie Dunn
Barry Eadens
Courtney Eatmon
Kip Eberwein
Lynne Eckmann
David Eckmann
Mark Edwards
Joseph Eliin
Joshua Elder
Cynthia Elliott
Daniel Emery
John Emmons
Stacey Emmons
Tracey Erwin
Carol Erwin
Lauren Esterly
Warren Fegenbuch
Scott Ferguson
Gayle Fields
Lindsay Figg
Brian Fingerson
Justin Fink
Lindsey Flanders
Matthew Flanders
Alan Flener
Kimberly Flynn
Heather Foley
Phillip Fort
Dana Foster
Sarah Foushee
Joan Fowler
Virginia France
AMy Frazier
Ronald Frey
Tiffany Fritz
Virginia Gay
Leigh Gilles
Douglas Gindling
Heather Girten
Susan Gittinger
Louis Glavinos
Angela Gordon
Carl Gordon
John Gorrell
Angie Gossage
Barbara Graham
James Graves
Justin Greubel
William Grise
Kelly Gritton
Gina Guarino
Don Gubser
Patty Guinn
Jennifer Haley
Leigh Hall
Joaun Haltom
Leigh Hamilton
George Hammons
Cathy Hance
Bettye Hanks
Catherine Hanna
Christopher Harlow
Rachel Harney
Kyle Harris
Jennifer Harrison
Lisa Hart
Cynthia Hartschuh
Catina Hasty
Angie Hatter
Melodie Hawkins
Julia Hay
Richard Hayden
Jonathan Hayes
Heather Haynes
Steven Haynes
Sherie Helm

Mike Herald
Tiffany Herald
Helen Herald
Whitney Herringshaw
David Hester
Patrick Higginbotham
Diana Hill
Lane Hill
Gregory Hines
Susan Hinson
Anna Hitron
James Hobbs
David Hodge
Ryan Hoisington
Holly Holladay
Norris Holton
Christine Holtman
Lucinda Holwerda
Nancy Horn
Michael Horne
Brian Host
Tom Houchens
Vylinda Howard
Karen Hubbs
Brooke Hudspeth
Danny Hudspeth
Aney Hugg
Patricia Hughes
Jim Hurley
Anthony Hurt
Amiee Hurter
Jesy Hyden
Britni Isbell
Michael Ivey
Larry Jarvis
Herbert Johnson
Phillip Johnson
Daniel Jones
Jaimie Jones
Laura Jones
Melinda Joyce
William Judd
Renae Justice
UK College of Pharmacy Donors - 2013

The UK College of Pharmacy is fortunate to have generous and supportive alumni and friends, who continue to support our research and service missions with their private dollars. The College salutes our donors who contributed to the College during 2013. We thank all of our donors for their generosity, and we look forward to working with each of you in the years ahead as we build an even more vibrant UK College of Pharmacy.
UK College of Pharmacy Faculty Grants - 2013

UK College of Pharmacy faculty were highly competitive in acquiring state and federal grant funding to support the College's research enterprise in 2013. The following is a list of grants that College faculty successfully competed for in 2013.

A Device Containing an Immobilized Chelator to Remove Aluminum from Total Parenteral Nutrition Solutions
Yokel, Robert (Principal)

ABFM Quality Improvement Project
Talbert, Jeffery C. (Principal)

Alternative Macrophage Activation in Acute Pseudomonas Pneumonia
Feola, David J. (Principal), Garvy, Beth (Co-Investigator), Perry, Robert D. (Co-Investigator)

Aluminum Removing Filter for Parenteral Nutrition Solutions: Production and Testing
Yokel, Robert (Principal)

Altered Drug Metabolism in Pregnancy
Tracy, Timothy S. (Principal)

An Evaluation of ARC Health Projects in Appalachia
Davis, Alison F (Principal), Allen, James E (Co-Investigator), Childress, Michael Ted (Co-Investigator), Maurer, Richard C (Co-Investigator), Talbert, Jeffery C. (Co-Investigator)

Amorphous Drug Miscibility and Crystalline Drug Solubility in HPMCAS Solid Dispersions: A Combined Investigation Using Molecular Dynamics Simulations and Experiment
Anderson, Bradley D. (Principal)

ARRA: Development of Rhodobacter as a Versatile Microbial Platform for Fuels Production
Chappell, Joseph (Principal)

ARRA: The Kentucky Diabetes and Obesity Collaborative (KDOC)
Pearce, Kevin Andrew (Principal), Talbert, Jeffery C. (Co-Investigator), et al.

ArtemetRx Data Analytics and Management
Talbert, Jeffery C. (Principal)

ASPIRE us-2010: Linezolid’s Impact Upon Immune Hyporesponsiveness After Influenza Infection
Feola, David J. (Principal), Garvy, Beth (Co-Investigator), Murphy, Brian S. (Co-Investigator)

Assembly of Phi29 pRNA Nanoparticles for siRNA Delivery to Prostate Cancer Cells
Guo, Peixuan (Principal)

Automated Identification of Lung Cancer Patients Eligible for Clinical Trial Recruitment
Johnson, Todd Richard (Co-Investigator), Talbert, Jeffery C. (Co-Investigator), et al.

Garneau-Tsodikova, Sylvie M (Principal)

Bendamustine HCI Form 1 Solubility
Anderson, Bradley D. (Principal)

Big Blue Data: Using Analytics to Customize a Student’s Curricular Experience
Cain, Jeffrey (Co-Investigator), Jones, Mikael (Co-Investigator), Romarelli, Frank (Co-Investigator), Smith, Kelly (Co-Investigator), Garces, Helen (Co-Investigator), Vincent, Kellen (Co-Investigator)

Biosynthesis
Van Lanen, Steven (Principal), Rohr, Jurgen (Co-Investigator)

Biosynthesis of Nucleoside Antibiotics
Van Lanen, Steven (Principal)

Biosynthesis of Nucleoside Antibiotics Targeting Bacterial Translocase I
Van Lanen, Steven (Principal), Elliott, Gregory (Co-Investigator)

Blood-Brain Barrier Function in Epilepsy: New Targets for Therapy
Bauer, Bjorn (Principal), Hartz, Anika Maria Sophie (Co-Investigator)

Blood-Brain Barrier P-Glycoprotein a New Target for Alzheimers Disease
Hartz, Anika Maria Sophie (Principal), Bauer, Bjorn (Co-Investigator)

Buprenorphine Treatment and Health Reform: Availability, Utilization, and Quality
Knudsen, Hannah Kathryn (Principal), Havens, Jennifer Rochussen (Co-Investigator), Loew, Michelle Renee (Co-Investigator), Stadler, Jamie Lawrence (Co-Investigator), Walsh, Sharon Lynn (Co-Investigator)

Cancer Center Support Grant
Evers, B. Mark (Principal), Adams, Val R. (Co-Investigator), Thorson, Jon S. (Co-Investigator), et al.

Career: Investigation and Redesign of Nonribosomal Peptide Synthetases
Garneau-Tsodikova, Sylvie M (Principal)

CareeRx: The Prescription for a Successful Career
Cain, Jeffrey (Co-Principal), Piascik, Peggy (Co-Principal), Polcari, Anne (Co-Principal), Smith, Kelly (Co-Principal), Garces, Helen (Co-Principal), Wurth, Stephanie (Co-Principal), Mayo, Brian (Co-Principal), Mann, Jami (Grad/Prof Student)

CDART - Center for Drug Abuse Research Translation
Bardo, Michael (Principal), Dwoskin, Linda P. (Co-Investigator), et al.

Determine the Crystal Structure of Complexes of Rv3671c (MarP) with Inhibitors
Tsodikov, Oleg V (Principal)

Development of Mithramycins as Ewing Sarcoma Therapeutics
Rohr, Jurgen (Principal), Tsodikov, Oleg (Co-Investigator), Leggas, Mark (Co-Investigator)

Center for Advanced Photosynthetic Hydrocarbon
Chappell, Joseph (Principal)

Center of Biomedical Research Excellence in the Molecular Basis of Human Disease - Administrative
Hersh, Louis B. (Principal), Watt, David S. (Co-Investigator), et al.
Center for Pharmaceutical Development
Munson, Eric Jon (Principal), DeLuca, Patrick P. (Co-Investigator)

Center for Pharmaceutical Development - Industry Member Consortium Contribution
Munson, Eric Jon (Principal)

Characterization of Polymorphs in Tablets Using Advanced Analytical Techniques
Munson, Eric Jon (Principal)

Chemical Probes of Immunoproteasome Function in Cancer
Kim, Kyung Bo (Principal), Lee, Wooin (Co-Investigator)

Chemoenzymatic Studies of Aminoglycoside-Resistance Enzymes Toward New Drugs
Garneau-Tsodikova, Sylvie M (Principal), Tsodikov, Oleg V (Co-Investigator)

Clinical Trial Network, Ohio Valley Node
Walsh, Sharon Lynn (Principal), Babalonis, Shanna L. (Co-Investigator), Lofwall, Michelle Renee (Co-Investigator)

COBRE: Center of Research in Obesity and Cardiovascular Disease
Cassis, Lisa A. (Principal), Graf, Gregory A (Co-Investigator), et al.

COBRE in the Molecular Basis of Human Disease
Hersh, Louis B. (Principal), Watt, David S. (Co-Investigator), et al.

Cognitive Aspects of Addiction-Related Behavior
Dwoskin, Linda P. (Principal)

Combined Orally Administered Yeast-derived 3-Glucan with 1650 Tumor Vaccine in the Treatment of NSCLC
Yannelli, John R. (Principal)

Community Assessment and Education to Promote Behavioral Health Planning and Evaluation (CAPE)
Davis, Alison F (Principal), Talbert, Jeffery C. (Co-Investigator)

Community Pharmacy Residency Expansion Project NACDSF - Community Prep
Divine, Holly Suzanne (Principal)

Complementary Work to Support Development of a Device to Remove Aluminum from TPN Solution
Yokel, Robert (Principal)

Construction and Assessment of Prototype Devices to Remove Aluminum from Solutions
Kuhn, Robert J. (Principal), Mansour, Heidi (Co-Investigator), Salazar, Abraham Jose (Co-Investigator), Unrine, Jason M (Co-Investigator), Zhan, Chang-Guo (Co-Investigator)

Controlled Inhibition of the Glycolytic Pathway for Lung Cancer-Targeted Therapy
Bae, Youngsoo (Principal)

Development of Antagonists for M5 Muscarinic Acetylcholine Receptor
Zheng, Guangrong (Principal), Dwoskin, Linda P. (Co-Investigator)

Development of Cocaine-Metabolizing Enzyme for Drug Overdose Treatment
Zhan, Chang-Guo (Principal), Zheng, Fang (Co-Investigator)

Zhan, Chang-Guo (Principal), Zheng, Fang (Co-Investigator)

Development of Food Model Systems and Application of QuEChERS Technologies for Detection of Chemical and Biological Threats to the Food Supply
Lodder, Robert A. (Principal)

Development of M5 Selective Muscarinic Antagonists
Dwoskin, Linda P. (Principal)

Development of M5 Selective Muscarinic Antagonists
Zhan, Chang-Guo (Principal)

Development of Mithramycins as Ewing Sarcoma Therapeutics
Rohr, Jurgen (Principal), Tsodikov, Oleg (Co-Investigator), Leggas, Mark (Co-Investigator)

Development of Novel Therapies for Methamphetamine Abuse
Dwoskin, Linda P. (Principal), Bardo, Michael (Co-Investigator), Tracy, Timothy S. (Co-Investigator)

EAGER: Low-level Detection of Complex Nanomaterials in Biological Media
Grulke, Eric A (Principal), Yokel, Robert A. (Co-Investigator)

Enzyme Discovery for Natural Product Biosynthesis
Thorson, Jon S. (Principal)

Epidemiologic Study of the Effectiveness of an ADF in Reducing Opioid Abuse
Havens, Jennifer Rochussen (Principal), Leukefeld, Carl G. (Co-Investigator), Lofwall, Michelle Renee (Co-Investigator), Walsh, Sharon Lynn (Co-Investigator)

Evaluation of Dissolution Methods for Complex Parenteral Liposomal Formulations
Anderson, Bradley D. (Principal), Bummer, Paul M. (Co-Investigator)

Fellowship for Sweta Modi - Mechanism Based Liposome Loading Strategies and Predictive Release Kinetics of Hydrophobic and Hydrophilic Anticancer Agents
Anderson, Bradley D. (Principal)

GOALI New Techniques for Solid-State NMR Studies of Pharmaceuticals
Munson, Eric Jon (Principal)

GOALI New Techniques for Solid-State NMR Studies of Pharmaceuticals
Munson, Eric Jon (Principal)

11-MULTI-12-OPI/CRAB (11-001) Ph. 1b/Ii Trial: Carfilzomib w/ Irinotecan in Small Cell LC Pts Who Progressed on prior plat. Chemo
Leggas, Markos (Principal)
Engineering High Value Oil Production into Biofuel Crops
Chappell, Joseph (Principal)

Ethanol Alteration of the Neurogenic Niche
Nixon, Kimberly (Principal), Pauly, James R. (Co-Investigator)

Evaluation of Dissolution Methods for Complex Parenteral Liposomal Formulations
Anderson, Bradley D. (Principal), Bummer, Paul M. (Co-Investigator)

Fellowship: Kimberly Carmony: Role of Proteasome Catalytic Subunit Composition in Proteasome Inhibitor Resistance
Kim, Kyung Bo (Principal)

Fellowship: Theresa Downey: Enzyme Engineering of MtmOIV from the Mithramycin Biosynthetic Pathway for the Production of Novel Natural Product Analogues
Rohr, Jurgen (Principal)

Fruit Exosome-like Particles for Therapeutic Delivery of Extracellular miRNAs
Guo, Peixuan (Principal)

Global Classroom
Cain, Jeffrey (Co-Investigator), Romanelli, Frank (Co-Investigator), Ryan, Melody (Co-Investigator)

High-Activity Mutants of Cocaine Esterase for Treatment of Drug Addiction
Zhan, Chang-Guo (Principal), Zheng, Fang (Co-Investigator)

Hippocampal Neurotoxicity Induced by Ethanol Withdrawal
Prendergast, Mark (Principal), Littleton, John M. (Co-Investigator), Nixon, Kimberly (Co-Investigator), Pauly, James R. (Co-Investigator)

Howard Hughes Medical Institute Education Initiative grant
Chappell, Joseph (Principal)

Impact of a Community Pharmacy Medication Management Service for Community-Dwelling Older Adults
Divine, Holly (Principal), Bero, Robert (Grad Student)

Impact of HIV-1 Tat Protein on Cocaine-Dopamine Transporter Interaction
Zhan, Chang-Guo (Principal)

Improving Transitions of Care from Hospital to Home: Impact of Pharmacist-to-Pharmacist Handoff and Early Pharmacist Follow-up on Patient Outcomes
Rippetoe Freeman, Patricia E. (Principal), Adams, Aimee Gelhot (Co-Investigator), Jones, Shelley Miranda (Co-Investigator), Talbert, Jeffery C. (Co-Investigator)

Inhibition of Cholesterol Synthesis by Green and Black Tea
Porter, Todd D. (Principal)

In vitro glycerandomization of Natural Products
Thorson, Jon S. (Principal)

Kentucky AIDS Education and Training Center
Thornton, Alice C. (Principal), Cary, Larry Curtis (Co-Investigator), Leedy, Nicole Elizabeth (Co-Investigator), Myint, Thein (Co-Investigator), Romanelli, Frank (Co-Investigator)

KY AIDS Education Training Center (KYAETC)
Thornton, Alice C. (Principal), Al-Hasan, Majid Nasir Mousa (Co-Investigator), Cary, Larry Curtis (Co-Investigator), Myint, Thein (Co-Investigator), Romanelli, Frank (Co-Investigator)

Kentucky Center for Clinical and Translational Science
Kern, Philip Alfred (Principal), Yekel, Robert A. (Co-Investigator), Anderson, Bradley D. (Co-Investigator), Dwoskin, Linda P. (Co-Investigator), Fink, Joseph L. (Co-Investigator), Talbert, Jeffery C. (Co-Investigator), Tracy, Timothy S. (Co-Investigator), Walsh, Sharon Lynn (Co-Investigator), Wermeling, Daniel P. (Co-Investigator), et al.

Kentucky Center for Clinical and Translational Science (KL2)
Kern, Philip Alfred (Principal), Talbert, Jeffery C. (Co-Investigator), Tracy, Timothy S. (Co-Investigator), et al.

Kentucky Center for Clinical and Translational Science (TL1)
Kern, Philip Alfred (Principal), Talbert, Jeffery C. (Co-Investigator), Tracy, Timothy S. (Co-Investigator), et al.

Kentucky Center for Clinical and Translational Science (UL1)
Kern, Philip Alfred (Principal), Talbert, Jeffery C. (Co-Investigator), Tracy, Timothy S. (Co-Investigator), et al.

Kentuckiana Health Collaborative Quality Indicator Aggregation
Talbert, Jeffery C. (Principal)

KSEF RDE: Novel, Improved Aminoglycoside Antibiotics through Enzymatic Total Synthesis/Combinatorial Biosynthesis
Van Laren, Steven (Principal)

KSEF RDE: Systematic Investigation of Drug-Excipient Interactions in Lyophilized Formulations
Murson, Eric Jon (Principal)

Licit & Illicit Opioids: Comparative Studies in Humans
Walsh, Sharon Lynn (Principal), Campbell, Charles Larry (Co-Investigator), Johnson, Steven Doyle (Co-Investigator), Lohwall, Michelle Renee (Co-Investigator), Middleton, Lisa Sue (Co-Investigator)

Linezolid for the Conservative Management of Ventriculoperitoneal Shunt Infection: New Fixed Price Contract
Pittman, Thomas A. (Principal), Cook, Aaron M (Co-Investigator), Feola, David J. (Co-Investigator), Martin, Craig A. (Co-Investigator)

Long-lasting Cocaine-metabolizing Enzyme for Cocaine Addiction Treatment
Zhan, Chang-Guo (Principal), Zheng, Fang (Co-Investigator), Tai, Hsin-Hsiung (Co-Investigator)

Mechanisms of Wnt/beta-catenin Inhibition by Resveratrol and its Derivatives
Liu, Chunming (Principal), Evers, B. Mark (Co-Investigator), Watt, David S. (Co-Investigator)

Medicaid Managed Care in Kentucky
Talbert, Jeffery C. (Principal), Costich, Julia F. (Co-Investigator)
Models of TBI
Pauly, James R. (Principal), Lifshitz, Jonathan (Co-Investigator), Scheft, Stephen William (Co-Investigator), Sullivan, Patrick Giles (Co-Investigator)

Money Follows the Person (MFP) - Implementation and Evaluation
Talbert, Jeffery C. (Principal)

Money Follows the Person (MFP) Implementation and Evaluation 2014
Talbert, Jeffery C. (Principal)

Multi-Mechanistic Inhibition of Lipid Peroxidation in TBI
Hall, Edward Dallas (Principal), Pauly, James R. (Co-Investigator), Singh, Indrapal N. (Co-Investigator)

Neuroprotective Actions of Dietary Supplementation with Docosahexaenoic Acid in a Rat Model of Traumatic Brain Injury
Pauly, James R. (Principal), Lifshitz, Jonathan (Co-Investigator)

Novel Aureolic Acid-Type Antitumor Agents
Rohr, Jurgen (Principal), Thorson, Jon (Co-investigator)

Novel Resveratrol Analogs and Colorectal Cancer Treatment
Liu, Chunming (Principal), Dwoskin, Linda P. (Co-Investigator), Evers, B. Mark (Co-Investigator), Lee, Eun Y. (Co-Investigator), Leggas, Markos (Co-Investigator), Vader Kooi, Craig William (Co-Investigator), Watt, David S. (Co-Investigator), Weiss, Heidi L. (Co-Investigator), Zhan, Chang-Guo (Co-Investigator)

Novelty, Dopamine and Response to Amphetamine
Bardo, Michael (Principal), Dwoskin, Linda P. (Co-Investigator)

Nutrition and Superfund Chemical Toxicity
Hennig, Bernhard (Principal), Black, Esther Penni (Co-Investigator), Cassis, Lisa A. (Co-Investigator), et al.

Optimizing PDMPS to Support Law Enforcement Activities
Rippelce Freeman, Patricia E. (Co-Principal), Blumenschein, Karen M. (Co-Principal), Talbert, Jeffery C. (Co-Principal)

Pharmacogenetics and Drug Interactions
Tracy, Timothy S. (Principal)

Pharmacokinetic Analysis and Monte Carlo Simulation of Piperacillin in Patients on Intermittent Hemodialysis
Ereshefsky, Benjamin (Principal), Feola, David J. (Co-Investigator), Martin, Craig A. (Co-Investigator)

Phase I and Biological Studies of DB67 - A Blood Stable Camptothecin
Leggas, Markos (Principal)

Part D Coordinated Services and Access to Research for Women, Infants, Children, and Youth
Thornton, Alice C. (Principal), Cary, Larry Curtis (Co-Investigator), Mullen, Nancy Kaufman (Co-Investigator), Murphy, Brian S. (Co-Investigator), Myint, Thein (Co-Investigator), Romanelli, Frank (Co-Investigator)

Phi29 Motor Nanopore for Single Molecule Sensing
Guo, Peixuan (Principal)

Post-Traumatic Sleep: An Individualized Indicator of Severity and Recovery
Lifshitz, Jonathan (Principal), O'Hara, Bruce (Co-Investigator), Pauly, James R. (Co-Investigator)

Prenatal Nicotine, Behavioral Teratogenicity and Dopamine
Pauly, James R. (Principal), Barron, Susan (Co-Investigator), Dwoskin, Linda P. (Co-Investigator), Nixon, Kimberly (Co-Investigator)

Prevalence of Off-Label Medication Use in Adult Critical Care in the United States
Winstead, P (Co-Principal), Lat, Ishaq (Co-Principal)

pRNA Nanoparticles as Tools to Improve Human Pluripotent Stem Cell-based Transplantation Strategies for Retinal Degenerative Disease
Shu, Dan (Principal)

Prostanoid-dependent Abdominal Aortic Aneurysm Formation
Loftin, Charles D. (Principal)

Redesign of Butyrycholinesterase for Cocaine Metabolism
Zhan, Chang-Guo (Principal), Zheng, Fang (Co-Investigator), Tai, Hsin-Hsiung (Co-Investigator)

Regulation of the ABCG5 ABCG8 Sterol Transporter.
Graf, Gregory A (Principal), Vore, Mary (Co-Investigator)

Regulation of SnaI in Breast Cancer Progression and Metastasis
Zhou, Binhua (Principal), Massarweh, Suleiman Alfred (Co-Investigator), Samaya, Luis Mario (Co-Investigator), Wang, Chi (Co-Investigator), Watt, David S. (Co-Investigator)

Removal of Aluminum and Phytate from the Soy Protein in Infant Formula
Yokel, Robert (Principal), Kuhn, Robert (Co-Investigator), Urine Jason (Co-Investigator), Wesley, Harris (Co-Investigator)

Research and Info Systems Mgmt for KY Dept DBHDID
Talbert, Jeffery C. (Principal)

Research Training in Drug Abuse Behavior
Gartry, Thomas F. (Principal), Dwoskin, Linda P. (Co-Investigator), et al.

RNA Nanotechnology in Cancer Therapy
Guo, Peixuan (Principal)

Role of B Cells in Host Defense against Pneumocystis
Garvy, Beth (Principal), Feola, David J. (Co-Investigator)

Role of SR-BI LPS Detoxification
Li, Xiang-an (Principal), Graf, Gregory A (Co-Investigator), Smart, Eric J. (Co-Investigator)

Ryan White HIV/AIDS Program – Part D Grants for Coordinated HIV Services to Women, Infants, Children and Youth
Thornton, Alice C. (Principal), Cary, Larry Curtis (Co-Investigator), Mullen, Nancy Kaufman (Co-Investigator), Murphy, Brian S. (Co-Investigator), Romanelli, Frank (Co-Investigator)
Ryan White Part C Early Intervention Services
Thornton, Alice C. (Principal), Cary, Larry Curtis (Co-Investigator), Hoelein, Andrew Robert (Co-Investigator), Mullen, Nancy Kaufman (Co-Investigator), Murphy, Brian S. (Co-Investigator), Myint, Thein (Co-Investigator), Romanelli, Frank (Co-Investigator), Schaninger, Takako Sugama (Co-Investigator)

Ryan White Part C: Outpatient Early Intervention Services to HIV Positive Persons
Thornton, Alice C. (Principal), Greenberg, Richard N. (Co-Investigator), Hoelein, Andrew Robert (Co-Investigator), Kumar, Armita (Co-Investigator), Mullen, Nancy Kaufman (Co-Investigator), Murphy, Brian S. (Co-Investigator), Romanelli, Frank (Co-Investigator), Schaninger, Takako Sugama (Co-Investigator)

Ryan White Part D - Coordinated HIV Services and Access to Research for Women, Infants, Children, and Youth (WICY)
Thornton, Alice C. (Principal), Cary, Larry Curtis (Co-Investigator), Greenberg, Richard N. (Co-Investigator), Kumar, Armita (Co-Investigator), Mullen, Nancy Kaufman (Co-Investigator), Murphy, Brian S. (Co-Investigator), Romanelli, Frank (Co-Investigator)

Ryan White Title IV Women, Infants, Children, Youth and Affected Family Members AIDS Healthcare
Thornton, Alice C. (Principal), Cary, Larry Curtis (Co-Investigator), Greenberg, Richard N. (Co-Investigator), Mullen, Nancy Kaufman (Co-Investigator), Murphy, Brian S. (Co-Investigator), Romanelli, Frank (Co-Investigator)

Safety/Toxicity Assessment of Ceria (A Model engineered NP) to the Brain
Yokel, Robert A. (Principal), Graham, Ursula (Co-Investigator), Tseng, Michael T (Co-Investigator), Butterfield, David (Co-Investigator), Gruke, Eric A (Co-Investigator)

Southern Central AIDS Education Telehealth Training Center
Schaninger, Takako Sugama (Principal), Cary, Larry Curtis (Co-Investigator), Norton, James C. (Co-Investigator), Romanelli, Frank (Co-Investigator), Sprang, Robert R (Co-Investigator)

Southern Central AIDS Education Telehealth Training Center
Schaninger, Takako Sugama (Principal), Cary, Larry Curtis (Co-Investigator), Norton, James C. (Co-Investigator), Romanelli, Frank (Co-Investigator), Sprang, Robert R (Co-Investigator)

STTR: A Pilot Pharmacokinetic and Local Tolerability Study
Adams, Val R. (Principal), Archer, Sanford M. (Co-Investigator), Davis, George Alan (Co-Investigator), Martin, Catherine A. (Co-Investigator)

STTR: Naloxone Nasal Spray Development Phase 2 b
Wermeling, Daniel P. (Principal), Adams, Val R. (Co-Investigator), Archer, Sanford M. (Co-Investigator)

STTR: Intranasal Naloxone: An Opioid Overdose Antidote - Part 2
Wermeling, Daniel P. (Principal)

Studies HB1 effects—KASPER
Rippetoe Freeman, Patricia E. (Principal), Blumenschein, Karen M. (Co-Investigator), Talbert, Jeffery J. (Co-Investigator)

Studies on Calicheamicin Biosynthesis and Self Resistance
Thorson, Jon S. (Principal)

Suicide and Overdose Prevention in Kentucky: Using Data to Save Lives
Blumenschein, Karen (Principal), Brouwer, Emily (Co-Investigator), Freeman, Trish (Co-Investigator), Moga, Daniela (Co-Investigator), Talbert, Jeff (Co-Investigator), Cerel, Julie (Co-Investigator), Butler, John (Co-Investigator), Wixson, Sarah (Grad Student), Perin, Nathin (Grad Student)

Synergistic Treatment of Macular Disease Using Multivalent RNA Nanoparticles
Guo, Peixuan (Principal)

Synthetic Crop for Direct Biofuel Production through Re-routing the Photorespiration Intermediates and Engineering Terpenoid Pathways
Chappell, Joseph (Principal)

Synthetic Probes of Protein Prenylation,” Sponsored by National Institute of General Medical Sciences
Spielmann, H. Peter (Principal), Adams, Val R. (Co-Investigator), Andres, Douglas A. (Co-Investigator)

Synthesis and Study of Amphotericin B Derivatives
Thorson, Jon S. (Principal)

Synthesis of Ostradins
Kim, Kyung Bo (Principal)

Targeting Solid-tumor Vasculature with Coencapsulated Arsenic-and Platinum-based,”
Upreti, Meenakshi (Principal), Nagarajan, Radhakrishnan (Co-Investigator)

Targeting the Immunoproteasome as a Novel Colorectal Cancer Therapy
Lee, Woon (Principal), Kim, Kyung Bo (Co-Investigator)

The Combination of Cyclosporin and Choline Optimizes Outcomes in Focal and Diffuse Models or Rat TBI
Pauk, James (Principal), et al.

The Role of Hepatic Insulin Resistance on SR-B1 Dependant HDL Cholesterol Uptake and Metabolism
Grat Gregory A (Principal), Charnigo, Richard (Co-Investigator), Galperin, Emilia (Co-Investigator), van der Westhuyzen, Denys (Co-Investigator)

The University of Kentucky Cancer Nanotechnology Training Center (UK CNTC)
Anderson, Bradley D. (Principal), Bae, Younsoo (Co-Investigator), Bummer, Paul M. (Co-Investigator), Leggas, Markos (Co-Investigator), Li, Tongjie (Co-Investigator), Tracy, Timothy S. (Co-Investigator), Yokel, Robert A. (Co-Investigator), et al.

Therapeutics Development Center
Kanga, Jamshed Piruze (Principal), Anstead, Michael J. (Co-Investigator), Danov, Zoran (Co-Investigator), Kuhn, Robert J. (Co-Investigator)

(TIPS) Targeting Platelet Activation, Platelet-Leukocyte Aggregates, and Acute Lung Injury In Pneumonia with Tigragereol
Smyth, Susan S. (Principal), Callahan, Leigh Ann (Co-Investigator), Charnigo, Richard (Co-Investigator), Macauley, Tracy (Co-Investigator), Supinski, Gerald (Co-Investigator)

Transforming the Culture of Medical Error Disclosure in Kentucky through Interprofessional Education
Jones, Shelly (Principal)

Training Drug Abuse Related Research
Dwoskin, Linda P. (Principal)
University of Kentucky College of Pharmacy Brand Voted the Most Recognizable and Innovative Academic Pharmacy Brand in the World
Cain, Jeffrey (Co-Principal), Piasck, Peggy (Co-Principal)

Unliquidated Obligations: Training in Drug Abuse Related Research
Dwoskin, Linda P. (Principal)
UK College of Pharmacy faculty published articles in numerous peer-reviewed and non-peer-reviewed publications in 2013. The following is a list of the College’s 2013 publications.


**Book Chapters**


Ryan, M. *Applied Therapeutics: The Clinical Use of Drugs*.


