**CPHS Scholarship Summary  
Calendar Year 2012:**

**(Completed work)**

**PEER REVIEWED ARTICLES:**

Ryan G, **Chesnut R,** **Johnson JF**, Dye JT, Odegard PS. Diabetes care practice patterns of recent pharmacy graduates. J Pharm Practice. Published online April 27, 2012. DOI 10.1177/0897190012442221. Print publication: June 2012. 23 (3): 380-91

Marr A, Mertens R, **Eastman DK.** Reactive arthritis induced by recurrent Clostridium difficile colitis. Rheumatology Reports. 2012;4(1):e1-e3.

**Haack S and Phillips CR.** Incorporating and Measuring Cultural Competency Through a Pharmacy Skills & Applications Course Series. Am J Pharm Educ. 2012; 76 (2) Article 34

Schommer, Jon C, Katerina Goncharuk, **Andrea L. Kjos**, Marcia M. Worley and James A. Owen. “Building Community Pharmacy Work System Capacity for Medication Therapy Management.” Innovations in Pharmacy, 2012; 3(3): Article 84.

**Kjos, Andrea L. Michael T. Andreski,** Natalie S. Schmitz\* and Tyler J. Morrell.\* “2011 Iowa Pharmacist Workforce Survey.” The Journal of the Iowa Pharmacy Association, 2012(July/Aug/Sept): 32-40

**Koenigsfeld CF**, Horning KH, Logemann CD, **Schmidt GA**. Medication therapy management in the primary care setting: A pharmacist-based pay for performance project. J Pharm Pract. 2012;25(1):93-99.

**Koenigsfeld CF, Wall GC, Miesner AR, Schmidt G, Haack SL, Eastman DK, Grady S, Fornoff A**. A faculty-led mock residency interview exercise for fourth-year doctor of pharmacy students. Journal of Pharmacy Practice. 2012;25(1):105-111.

Singh, S.K., Covence L., Alvarez, D. and **Mahajan, P.B**. (2012) Determinants of immunogenic response to protein therapeutics Biologicals http://dx.doi.org/10.1016/j.biologicals.2012.06.001

**Miesner AR, Grady SE,** Trewet CB. Use of student pharmacist peer feedback during a journal club in an advanced practice pharmacy experience. Currents in Pharmacy Teaching and Learning 2012; 4: 165-173.

**Miesner AR** and Trewet CB. Clarification of once-daily low-molecular-weight heparin dosing in pulmonary embolism. CHEST. 2012;142(4):1074-5.

**Rovers JP,** Hagel HP. A Patient Self-Assessment Tool to Promote Cognitive Services in Patients at Risk for Drug Therapy Problems. JAPhA. 2012;52:646;52.

Chen F, Wang Y, **Shan X,** Cheng H, Hou D, Zhao X, Wang T, Zhao D, Mi J. Association between childhood obesity and metabolic syndrome: evidence from a large sample of Chinese children and adolescents. PLoS One. 2012; 7(10):e47380

**Wall GC**, Van der Veer JJ, Synder SM, Romine MJ. Assessment of Candidacy for Pneumococcal Vaccination in Intensive Care Patients. Intensive Crit Care Nurs. 2012 Nov 29. doi:pii: S0964-3397(12)00110-3. 10.1016

Fahler J, **Wall GC**, Leman BI. Gastroparesis Associated Refractory Nausea Treated with Aprepitant. Ann Pharmacother. 2012 Dec;46(12):e38. doi: 10.1345

Yamada M, **Welty TE.** Ezogabine (Retigabine): an evaluation of its efficacy and safety as adjunctive therapy for partial-onset seizures for adults. *Ann Pharmacother*. 2012;46:1358-67.

Heitzer, A.M.\*, Roth, A.K.\*, Nawrocki, L.\*, **Wrenn, C.C**., Valdovinos, M.G. Altered social behavior in isolation-reared Fmr1 Knockout Mice. Journal of Autism and Developmental Disorders. 2012 (Epub ahead of print). \*Indicates Drake student co-author

**NON-PEER REVIEWED ARTICLES/COLUMNS:**

**Bell EA.** *Editorial - Head lice – where are we?* *Infectious Diseases in Children* 2013;26(4):4-5

**Bell EA**. Pneumococcus – which antibiotics? *Infectious Diseases in Children* 2013;26(3):22

**Bell EA.** New medications approved in 2012. *Infectious Diseases in Children* 2013;26(2):710

**Bell EA.** Potential medication dangers on 2 fronts. *Infectious Diseases in Children* 2013;26(1):9

**Bell EA.** Will this antibiotic make my baby fat? *Infectious Diseases in Children* 2012;25(10):21

**Bell EA.** Compounding pharmacies – benefit or risk? *Infectious Diseases in Children* 2012;25(9):19

**Bell EA.** Head lice treatment update. *Infectious Diseases in Children* 2012;25(8):7-8

**Bell EA.** Pertussis and Tdap vaccines. *Infectious Diseases in Children* 2012;25(7):10

**Bell EA.** Reducing antibiotic use – for Johnny and his hamburger. *Infectious Diseases in Children* 2012;25(6):14-15

**Bell EA.** Colistin – its role in pediatrics. *Infectious Diseases in Children* 2012;25(5):17

**Bell EA.** Pharmacogenomic applications in pediatrics. *Infectious Diseases in Children* 2012;25(4):20-21

**Bell EA.** Expanding medication availability over-the-counter . *Infectious Diseases in Children* 2012;25(3):23

**Bell EA.** Sulfa antibiotics for MRSA treatment. *Infectious Diseases in Children* 2012;25(2):19

**Bell EA**. Hyertonic saline for bronchiolitis. *Infectious Diseases in Children* 2012;25(1):14

**Lehman, Nic.** Things Aren’t Always as They Seem: A Look at Off-Label Use of Medication. Available as continuing education as part of the 2013 Pharmacy Technician Education for Association Members (TEAM) Series. Available online at <http://www.theceinstitute.org/Technician.aspx>

**Welty TE,** Faught E, Schmidt D, McAuley JW, Ryan M. Be sure to read the fine print: The Agency for Healthcare Research and Quality comparative effectiveness report on antiepileptic drugs. 2012 (Editorial). *Epilepsy Curr.* 2012;12:84-6.

**Welty TE.** The trials of antiepileptic drug trials (Editorial). Clin Invest 2012;2:1049-51

**PEER REVIEWED PODIUM PRESENTATIONS & POSTERS: (21 students)**

Morrell, T.\*, N. Schmitz,\* **M. Andreski,** **A. Kjos**, K. Gainer. “Embracing Challenges in a Complex Environment: A Study of Pharmacists’ Workload Dynamics and Provision of MTM.” Podium presentation at the 159th Annual Meeting of the American Pharmacists Association, New Orleans, LA, March, 2012. Abstract #279. Journal of the American Pharmacists Association, 2012:52(2):274. (National Podium)

Morrell, T.\*, N. Schmitz,\* **M. Andreski,** **A. Kjos**, K. Gainer. “Embracing Challenges in a Complex Environment: A Study of Pharmacists’ Workload Dynamics and Provision of MTM.” Podium *Annual Meeting of the Iowa Pharmacy Association in June 2012 by M. Andreski. (Regional Podium)*

**Cross Beemer, R.** (2012). Outcome Assessments for Senior Capstone Experiences. Conference on Applied Learning in Higher Education. March, 2012. Missouri Western State University, St. Joseph, Missouri. (National Podium)

Krueger, O., **Cross Beemer, R.,** Tunning, M. (2012) Clinical and emerging practices for athletic trainers. 2012 MAATA Annual Meeting (National presentation)

Reichert H, **Grady SE.** Evaluating pharmacy services satisfaction on the psychiatric unit: an inpatient survey. Presented at the Annual Meeting of the College of Psychiatric and Neurologic Pharmacists. Tampa. April 2012. (National Poster)

N. Schmitz,\* **M. Andreski,** **A. Kjos**, Morrell, T.\* “The Dynamic and Fluctuating Work Environment of Iowa Pharmacists” Accepted for presentation (Poster) at the Iowa Pharmacy Association Annual Meeting, June 23, 2012. (Regional Poster)

**Bottenberg M, Wall G, Stelter N, Price-Eastman H, Bell E.** An introductory pharmacy practice experience involving pharmacy, medical, and nursing students in a simulation laboratory. AACP Annual Meeting, July 2012, Kissimmee Florida (National Poster)

**Bottenberg M, Bryant G, Haack S, Mease C**, North A. Assessing pharmacy student’s ability to evaluate high blood pressure measurements through evaluation by a training arm. American Association of Colleges of Pharmacy; Annual Meeting July 2012; Kissimmee, FL. (National Poster)

Peters M, Jordan C, **Eastman DK.** Implementation of a pharmacist-managed vancomycin consult service: a three month pilot. Poster presentation at the American Society of Health-System Pharmacists Midyear meeting, Las Vegas, NV. December 2012. (National Poster)

**Huey, K.A.,** Chamney, C., Godar, M., Garrigan, E. Effects of Glutamine Supplementation on Muscle Function in a Mouse Model of Spinal Cord Injury. *FASEB J. 26:1078.6, 2012. (National Poster)*

**Huey, K.A.,** Godar, M., Chamney, C., Bump R. Prior Exercise Training Prevents Statin-Associated Skeletal Muscle Dysfunction in Mice. *Medicine Science Sport Exercise* 44: 273, 2012 *. (National Poster)*

**Huey, K.A.** and B. Moeller. Effects of AICAR and/or Exercise on Muscle Function and Hsp25 and 70 Expression in Mice, Integrated Biology of Exercise VI, October 2012*. (National Poster)*

**Kjos, Andrea L.** Ginelle Schmidt. “Communication Networks of Medication Management in an Ambulatory Care Setting.” Poster presentation at the 159th Annual Meeting of the American Pharmacists Association, New Orleans, LA, March, 2012. Abstract #34. Journal of the American Pharmacists Association, 2012:52(2):209. (National Poster)

Logemann CD, **Lehman NP, Koenigsfeld CF, Bryant GA**. Lessons learned from clinical pharmacists’ review of glucometer download reports in the primary care setting. American College of Clinical Pharmacy: Annual Meeting, October 2012; Hollywood, FL. (National Poster)

Jung E, McConville M, Nguyen H, Robertson M, Sterling B., **Maki ED.** Utilizing PharmD/MPA students to develop the pharmacist’s role in preventing readmissions for patients with heart failure. Student Poster - ASHP Midyear Clinical Meeting. Las Vegas, NV, December 2012 (National Poster)

**Invited and Non-reviewed PRESENTATIONS (3 students)**

**Bottenberg MM, Wall GC, Stelter N, Price-Eastman H, Bell E.** An Introductory Pharmacy Practice Experience Involving Pharmacy, Medical, and Nursing Students in a Simulation Laboratory. Presented at the 2012 Annual AACP meeting in Kissimmee, FL, July, 2012. (National)

**Haack S.** “Clinical Updates: Vitamin D Deficiency & Atypical Antipsychotic ADRs.” The Pharmacy Guild of Australia Offshore Conference, Honolulu, HI, October 2012. (National Podium)

**Haack S.** “A Comparison: Australian and American Pharmacy Internship Programs.” The Pharmacy Guild of Australia Offshore Conference, Honolulu, HI, October 2012. (National Podium)

**Koenigsfeld, C.** APhA Immunization Certificate Program, APhA Annual Meeting, New Orleans, LA, April 2012 (National Podium)

**Mahajan, Pramod.‘**Pharmacist Education in the Era of Genomic Medicine- Action Steps for Pharmacists Genomic Education ’ A presentation at the Annual Meeting of the American Association of Colleges of Pharmacy, July 15-18, 2012, Kissimmee, FL (National Podium)

**Meyer, KS.** “Applying New Guidelines to the Elderly.” ASCP Annual Meeting, National Harbor, Maryland, November 2012. (National Presentation)

Torry, DS, Groesch, KA, **Torry RJ**. Altering angiogenic gene expression in trophoblast. J. Reproductive Immunol. 94(1): 27, 2012. 31st Annual Meeting of the American Society for Reproductive Immunology, Hamburg, Germany, May 30-June 2, 2012. (National Podium)

**Bottenberg MM,** Remmen K, Kuhl J, Norby K. “Panel Overview of Iowa eHealth Initiatives.” Invited presentation at the Iowa Pharmacy Association Legislative Day, Des Moines, IA, February 2012. (Regional Presentation)

**Bottenberg MM.** CEI Log in to Learn presentation (Regional Podium) April 2012

**Bottenberg MM.** IPA Legislative Day (Regional Podium) February 2012

**Bryant G.** Collaborative Education Institute, Cardiovascular Update Conference, Iowa City, IA (Regional Podium) September 2012

**Schmidt GA** .Anticoagulation Case Discussion. Collaborative Education Institute; Cardiovascular Update Conference. Iowa City, IA. September 2012. (Regional Podium)

\***Bottenberg MM.** “Azithromycin for the Prevention of Exacerbations of COPD.” Log-in-to-Learn Online Journal Club, CEI Institute, Des Moines, IA, April 2012. (Regional Podium)

**Cross Beemer, R** (2012). Isokinetic assessment of peak torque values and isotonic contractions in division I softball athletes. Physiotherapy Associates presents 4th Annual Sports Medicine Conference on: Prevention, Early & Appropriate Care of Injuries and Functional Limitations in Physical Activity and Sports Performance. February, 2012. Des Moines, Iowa. (Regional Podium)

**DeWitt J.**  “Iowa Pharmacy Law Review”, “Federal Law Review” Invited Presentations, Iowa Pharmacy Association Educational Expo, January 20-22, 2012 (Regional Podium)

**Fornoff, A.** “Medications and Weight Gain.” Invited presenter. Iowa Empowerment Conference. Des Moines, Iowa. August 2012. (Regional podium)

**Grady SE.** “Common Mental Health Medications: A Review of Side Effects” Iowa Pharmacy Association Expo. January 21, 2012 (Regional Podium)

**Huey K.** “Skeletal Muscle Adaptation to Chronic Changes in Loading and Activation”, Iowa Physiological Society Meeting, September 2012. (Regional Podium)

**Johnson JF.**The Latest in Diabetes Medications. Presented to general public at Taking Control of Your Diabetes national Diabetes Conference and Health Fair. Des Moines, Iowa. September 22, 2012. (Regional Podium)

**Koenigsfeld, C.** APhA Immunization Certificate Program, Oklahoma Pharmacy Association Annual Meeting, Oklahoma City, Oklahoma, October 2012. (Regional Podium)

**Koenigsfeld, C.** APhA Immunization Certificate Program, Illinois Pharmacists Association Annual Meeting, Chicago, Illinois, September 2012(Regional Podium)

**Koenigsfeld, C.** APhA Immunization Certificate Program, Sam’s Club Pharmacy Dallas and Houston Texas, December 2012(Regional Podium)

**Koenigsfeld, C.** APhA Immunization Train the Trainer Program, Sam’s Club Pharmacy, Dallas, Texas, December 2012 (Regional Podium)

**Lehman, NP.** “Things Aren’t Always as They Seem – Off-label Medication Use”. Iowa Pharmacy Association Pharmacy Technician Educational Forum April 2012. (Regional Podium)

**Maki ED**, Dimpere L, Herzog A, Ottoson, K. “Treatment of Painful Diabetic Neuropathy” Iowa Pharmacy Association - Annual Educational Expo, Des Moines, IA. 0.1 CEU's. January 2012 (Regional Podium)

**Fornoff, A.** Hedgepeth, S. Friedman, L. “Sharing Abilities: A First Year Seminar Service-Learning Project with Ruby Van Meter.” Drake Experiential Learning Showcase. Des Moines, Iowa. April 2012. (Local Podium)

Marotta A, **Soltis D, Stelter N.** Assessment of the Effectiveness of a Health Coaching Class in Reaching Health Coaching Outcomes for Pharmacy and Health Sciences Students. Drake University. April 2012. (Local Podium)

**Johnson JF.**Fighting the rising tide of diabetes: New approaches to medical management. Presented as a “Class Option” to National Alumni Scholar candidates during NAS program. Drake University. Feb. 11, 2012 and at Admitted Student Days. April 13, 2012. (Local Podium)

**Clarke C.** *Pharmacy as a Career,* The Chrysalis Foundation After-School Program, Bondurant, Iowa, February 23, 2012. (Local Podium)

**Gentry B.** Isn’t It About Time: The Development of Two Compounds for the Treatment of Human Cytomegalovirus. Northern Iowa University Biology Graduate Colloquium, Northern Iowa University, Cedar Falls, IA (2012). (Local Podium)

**Johnson J.** “Team Based Learning in a 3-semester therapeutics course: A 4-year experience at Drake University.” Invited speaker to faculty at University of Nebraska Medical Center College of Pharmacy. Spring, 2013. (Local Podium)

**Johnson J.** *Fighting the rising tide of diabetes: New approaches to medical management.* Presented as a “Class Option” to National Alumni Scholar candidates during NAS program. Drake University. Feb. 11, 2012 and at Admitted Student Days. April 13, 2012. (local Podium)

**Johnson J.** *The Latest in Diabetes Medications.* Presented to general public at Taking Control of Your Diabetes national Diabetes Conference and Health Fair. Des Moines, Iowa. September 22, 2012. (Local Podium)

**Mahajan P.** ‘Health Care- It is getting Personal’ Presentation to the West Des Moines Rotary Club, February 2012. (Local Podium)

**Sacco J**. Genetic variation and sulfonamide drug hypersensitivity. DUSCI Faculty Presentation, Drake University, October 2012. **(Local** Podium**)**

POSTERS (33 students on these)

Phan Q, Breitenbach JM, Borysko KZ, Townsend LB, Drach JC, **Gentry BG**, Human Cytomegalovirus Resistance to the Deoxyribosylindole Nucleosides Maps to a Point Mutation in the Terminase Subunit Encoded Gene *UL89*. Des Moines University Research Symposium (2012). (Local Poster)

Vollmer LE, Hall ED, Borysko KZ, Breitenbach JM, Zemlicka J, Kamil JP, Drach JC, **Gentry BG**, Human Cytomegalovirus Resistance to Cyclopropavir Maps to a Base Pair Deletion in *UL97* Resulting in a Viral Protein Lacking an Active Kinase Domain. Des Moines University Research Symposium (2012). (Local Poster)

Effects of Glutamine Supplementation on Muscle Contractile and Hsp Proteins in a Mouse Model of Spinal Cord Injury. Drake Undergraduate Research Symposium, April 2012.Carissa Chamney, Michelle Godar, Ethan Garrigan, **Kimberly Huey.** (Local Poster)

Effects of AICAR and Exercise on Muscle Function and Hsp Protein Expression in Mice. Drake Undergraduate Research Symposium, April 2012. Bryant Moeller and **Kimberly Huey.** (Local Poster)

Prior Exercise Training Prevents Statin-Associated Skeletal Muscle Dysfunction in Mice. Drake Undergraduate Research Symposium, April 2012. Michelle Godar, Carissa Chamney, Rachel Bump, **Kimberly Huey.** (Local Poster)

Natalie Benson and **Abebe Mengesha,** Monoolein and Monolaurin Blends for Thermo-responsive Local Drug Delivery Systems, (Abstract and poster) DMU Research Symposium, Dec. 2012, Des Moines, IA (Local Poster)

Dieter Rebecca, Humayun Ahmed, **Ronald Torry.** Hypoxia-induced changes in in sFlt-1 and Jmjd6 mRNA expression in human trophoblast. Presented at Conference on Undergraduate Research in the Sciences (DUCURS), Drake University, April 12, 2012. (Local poster)

Katie Schechinger, Rachel Bump, **Ronald Torry,** **Rhonda Beemer.** Effects of cognitive stress on physiological processes in division I college athletes compared to non-athletes. Conference on Undergraduate Research in the Sciences, Drake University, April 12, 2012. (Local poster)

Dao, T., Dispensa, D., Wisniewski, A.B., **Wrenn, C.C.** Effect of genistein maternal diet on anxiety behavior of male rats. 9th Annual Conference on Undergraduate Research in the Sciences (DUCURS), Des Moines, IA, 2012. (Local Poster)

Cellular mechanisms for the protective effects of prior exercise on Statin-associated muscle dysfunction. Iowa Physiological Society Meeting, September 2012. Michelle Godar, Carissa Chamney, Rachel Bump, **Kimberly Huey. (Regional** Poster**)**

Dieter Rebecca, Humayun Ahmed, **Ronald Torry.**  Hypoxia-induced changes in in sFlt-1 and Jmjd6 mRNA expression in human trophoblast.  Iowa Physiological Society Meeting, Des Moines University, Des Moines, IA, September 29, 2012. (Regional Poster)

Schaapveld C.M.\*, Bennett N.\*, Bansal S.\*, Willoughby C.\*, Peterson J.\*, Krogh K.\*, Wolfe B.\*, Hidding J.\*, and **Wrenn C.C.** Spatial memory impairment in mice with immunotoxic lesions of the cholinergic basal forebrain. American Society for Pharmacology and Experimental Therapeutics, Annual Meeting, April, 2012.\*Indicates Drake student co-author (National Poster)

**Wrenn, C.C.,** Burr, M.J.\*, Ball, E.R.\*, Wolfe, B.D.\* Impairment of spatial memory by sub-chronic administration of genistein to adult male rats. Society for Neuroscience, Annual Meeting, October, 2012. \*Indicates Drake student co-author (National Poster)

**BOOKS AND CHAPTERS:**

**Bell EA.** *A parent’s guide to children’s medicines.* Johns Hopkins University Press, Baltimore. October 2012.

**Maki ED, Wall GC.** Update on the Management of Constipation and Post-Operative Ileus. In: American College of Clinical Pharmacy, ed. Pharmacotherapy Self-Assessment Program. 5th ed., Book 11. Kansas City, MO: American College of Clinical Pharmacy. July 2012

**Maki ED,** Chapter 105 - Gout and Hyperuricemia. In Schwinghammer TL, Koehler JM, 8th ed. Pharmacotherapy Casebook: A Patient-Focused Approach. Mcgraw-Hill, Inc Colombus, OH. 2011. Pg 275-7.

**Nita K. Pandit and Robert P. Soltis.** Introduction to the Pharmaceutical Sciences: An Integrated Approach. 2E, *Lippincott Williams & Wilkins*, 2012

**Wall GC.** Gout and Hyperuricemia. In:Chisholm-Burns MA, et al eds. Pharmacotherapy Principles & Practice 3rd edition. McGraw-Hill New York, NY 2012. Pg

**Wall GC.** Lower Gastrointestinal Disorders in: Koda-Kimble MA, et al. Ed. Applied Therapeutics: The Clinical Use of Drugs. 10th Ed. 2012 Lippincott, Williams and Wilkins, Philadelphia, PA. pg 619-718.

**Wrenn, C.C.** Dietary isoflavones and learning and memory in *Isoflavones: Chemistry, Analysis, Function, and Effects*, ed. Victor R. Preedy, Royal Society of Chemistry (2012).

**Research Grants and Contracts – New/Continuing**

***Intramural***

"Funding to Attend the National Conference on Applied Learning in Higher Education"  
**Rhonda Cross Beemer,** Principal Investigator  
Jorndt Faculty Development Award  
Spring 2012  
Direct Costs:  $650.00

Levitt Faculty Development Grant  
**Ginelle Bryant,** Principal Investigator  
Drake University

$1800

Medication Therapy Management Certificate Program Training  
**Cheryl Clarke**, Principal Investigator  
Jordnt Development Funds  
Direct Costs: $1137

Service Learning Grant  
Ruby Van Meter Carnival  
**Anisa Fornoff,** Principal Investigator  
Direct Costs: $250

Scholarship of Teaching & Learning Stipend  
**Anisa Fornoff,** Principal Investigator  
Direct Costs: $600

Attend Community based Diagnostic Testing Program  
**June Johnson,** Principal Investigator  
Jordnt Faculty Development Funds  
Direct Costs: $469.24

APhA Immunization Faculty Training  
**Nic Lehman,** Principal Investigator  
Jordnt Development Funds  
Direct Costs: $1403.28

Provost Faculty Development Grant  
**Wendy Mobley-Bukstein**, Principal Investigator  
Drake University  
Direct Costs: $1000.00

“The Iowa 2012 Pharmacy Technician Workforce Survey”  
**Michael Andreski**, **Andrea L. Kjos**, Co-Investigators  
Harris Research Grant  
May 2012 – April 2013  
Direct Costs: $3,930

“Effects of Energy Gel Carbohydrate Composition and Gender on Fuel Metabolism and Blood Glucose Levels During Exercise”  
**Kim Huey,** Principal Investigator  
Harris Research Grant  
October 2012-April 2013  
Direct Costs: $1,600

“Links Center Summer Workshop on Social Network Analysis – Intermediate Level Workshop”  
**Andrea L. Kjos,** Principal Investigator  
Jorndt Faculty Development Award  
June 2012  
Direct Costs: $3,120

“Monoglycerides-based matrix as a novel vehicle for thermo-responsive local drug delivery system”

**Abebe Mengesha**, Principle Investigator  
Drake University Research Grant  
June 2012 to May 2013  
Direct costs: $2,980.00

“Thermal Analysis Seminar Course: Focus on Pharmaceuticals”

**Abebe Mengesha**, Principle Investigator  
 Jorndt Faculty Development Award  
June 2012  
Direct costs: $855.00

“Bednet Malaria Indicator Study” in Nana Kenieba, Mali

**John Rovers,** Principle Investigator  
John R. Ellis Endowment,  
Feb 2012 – present  
Direct costs: N/A

“Introduction to Pharmaceutical Sciences Assistantship”  
**Robert Soltis,** Principle Investigator  
Drake University Undergraduate Assistantship Program  
August 2012-April 2013  
Direct costs: $1650

“The effect of maternal exposure to genistein on anxiety-like behavior in male rats”  
**Craige Wrenn,** Principle Investigator

Harris Research Endowment  
February 2012 - May 2012  
Direct Costs: $2000

$23,444 Total intramural

***Extramural***

Internship Program for Independent Pharmacy  
McKesson   
**Renae Chesnut,** Principal Investigator  
Direct Costs: $10,000

Internship Program for Independent Pharmacy  
Pharmacists Mutual   
**Renae Chesnut,** Principal Investigator   
Direct Costs: $5400

Equigen: A Study of Generic Substitution of Anti-epileptic Drugs  
**Tim Welty,** Principal Investigator  
Funded by FDA  
Direct Costs: $25000

**“**Impact of an Innovative, User-Centered Technology on Medication Self-Management” **Andrea L. Kjos,** Principal InvestigatorAnuj Bhargava, Co-InvestigatorAmerican Association of Colleges of Pharmacy, New Investigator AwardJanuary 2012 - July 2013Direct Costs: $10,000

“Pro-inflammatory regulation of angiogenic gene expression in human trophoblast; Molecular regulation and role of placental growth factor”

**Ron Torry,** Collaborator  
NIH-CHHD, R15

Dates: 7/12 – 6/15

Directs to SIU; no consortium established

**Undergraduate Research Projects**

Andrew North (P4)  
Research Mentor: **Michelle Bottenberg**  
Assessing Pharmacy Students' Ability to Evaluate High Blood Pressure Measurements through Evaluation by a Training Arm.

Quang Phan (P2)  
Research Mentor: **Brian Gentry**  
Development of the deoxyribosylindole nucleosides as a viable therapy option for the treatment of HCMV.

Ben Jagow (P2)  
Research Mentor: **Brian Gentry**  
Technique for measuring viral DNA polymerase activity (rt-PCR, gene amplification).

Laura Vollmer (P3)  
Research Mentor: **Brian Gentry**  
Viral tissue culture assays to test the viability of drug combinations for the treatment of HCMV.

Michele Godar (P3)   
Research Mentor– **Kim Huey**  
Effects of Glutamine supplementation on Muscle force production and heat shock protein expression following spinal cord injury in mice; 2) Statin-associated muscle dysfunction with novel vs. accustomed exercise; and 3) VEGF and Skeletal Muscle Adaptation During Chronic Overload

Carrisa Chamney, (Senior HSCI)   
Research Mentor– **Kim Huey**  
Effects of Glutamine supplementation on Muscle force production and heat shock protein expression following spinal cord injury in mice; 2)Statin-associated muscle dysfunction with novel vs. accustomed exercise; and 3) VEGF and Skeletal Muscle Adaptation During Chronic Overload

Bryant Moeller, (Senior, HSCI-PS)  
Research Mentor– **Kim Huey**  
Effects of AICAR and Exercise on Muscle Function and Hsp Protein Expression in Mice  
Research Mentor: Kim Huey

Devin Leland, (Sophmore, BCMB)   
Research Mentor– **Kim Huey**  
Statin-associated muscle dysfunction with novel vs. accustomed exercise and 2) VEGF and Skeletal Muscle Adaptation During Chronic Overload

Alexandra Hendzel (P2), Nicole Quandt (P3), Haley Vance (P3)  
Research Mentor – **Andrea Kjos**  
To test the impact of a virtual, real-time application through the use of an internet and mobile phone integrated technology to manage patients with diabetes.

Alexandra Hendzel (P2), Hanna Raber (P3)  
Research Mentor – **Andrea Kjos**  
The outcome of this project will be a cross-sectional description of the pharmacy technician workforce in Iowa which will include an evaluation of demographics, compensation level, in addition to role and task information for each respective practice environment.

Huy Nguyen, Erin Jung, Mattie Robertson, Molly McConville (MPA/PharmD)

Research Mentor: **Erik Maki**

Utilizing PharmD/MPA students to develop the pharmacist's role in preventing readmissions for patients with heart failure

Carrissa Chamney (HSCI Senior Capstone)

Research Mentor: **Erik Maki**

Utilizing procalcitonin levels to augment a pharmacist driven antimicrobial stewardship program

Theodore Berei and Jacqueline Ye (P3/P2)

Research Mentor: **Erik Maki**

A survey describing variation in methods used to estimate creatinine clearance by pharmacist

Natalie T Benson (P1),   
Research Mentor, **Abebe Mengesha**   
Binary blends of Monoolein and Diolein Liquid Crystalline Phase for Thermo-responsive Local Drug Delivery Systems. 2012 DUSCI summer fellowship.

Mallory Tough (BS HSCI-PS)   
Research Mentor, **Abebe Mengesha**   
Chemical stability enhancement of nifedipine in monoglycerides-matrices (capstone project).

Madison Miller (BS in Bio/Cell/Molecular Bio),   
Research Mentor: **Abebe Mengesha**   
Release profile of nifedipine from monoolein- monolaurin matrix.

Michael Sage (HS Capstone)

Research Mentor: **Andrew Miesner**  
Periprocedural antithrombotic management in dental practices

Sam Miller  
Research Mentor: **John Rovers**  
Deregulation in Pharmacy: Implications for Policy in Australia. Submitted to the Journal of Pharmacy Practice and Research

Aaron Beck  
Research Mentor: **John Rovers**Stability of Antimalarial Medication Under Extreme Storage Conditions

Aaron Beck and Caitlin Robertson  
Research Mentor: **John Rovers**Bednet Malaria Indicator Study in Nana Kenieba, Mali

Rebecca Dieter (P3 student)Research Mentor: **Ron Torry**  
Soluble Flt-1 receptor expression in normoxic and hypoxic trophoblast. Work culminated in a poster presentation at DUCURS and the Iowa Physiological Society meeting.

Humayun Ahmed (BCMB, capstone)Research Mentor: **Ron Torry**  
Quantitative differences in JMJD6 transcription factor expression in normoxic and hypoxic trophoblast. Work contributed to a poster at DUCURS and the Iowa Physiological Society meeting.

Tommy Dao  
Research Mentor: **Craige Wrenn**  
Worked in Spring 2012 as a Health Sciences Capstone Student

Daniel Ricci  
Research Mentor: **Craige Wrenn**  
Worked in Summer 2012 as an APPE Rotation Student

Kirsten Chatman  
Research Mentor: **Craige Wrenn**  
Worked in Summer and Fall 2012 as a Volunteer Research Assistant

Branden Bennett   
Research Mentor: **Craige Wrenn**  
Worked in Fall 2012 as a Health Sciences Capstone Student