Capstone Project Poster Titles
2013 -2014

Bench Research

1. **Translating Genotypes into Phenotypes of Clinically Significant Pharmacogenomic Biomarkers**
   Rosaura Ford, Pharm.D. Candidate
   Mentor: Ronald Worthington, Ph.D.
   Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois

2. **Calcium and Phosphate Precipitation in Simulated Neonatal Total Parenteral Nutrition Solutions containing TrophAmine**
   Lauren Richards, Pharm.D. Candidate
   Mentor: William Kolling, R.Ph., Ph.D. and Tim McPherson, Ph.D.
   Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois
   Best Poster Award – SIUE School of Pharmacy Poster and Presentation Day 2014

3. **The Effect of Priming on Adsorption of Insulin to Infusion Sets**
   Seth Wagner, Pharm.D. Candidate
   Mentors: Tim McPherson, Ph.D. and William Kolling, R.Ph., Ph.D.
   Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois

Business Plans

1. **Brighton Pharmacy Expansion Business Plan**
   Shannon Beaman Bramel, Pharm.D. Candidate
   Mentor: Steve Peipert, R.Ph.
   Brighton Pharmacy, Brighton, Illinois

2. **Burris Family Pharmacy**
   Danielle Burris, Pharm.D. Candidate
   Mentor: Micah Howell, Pharm.D.
   Howell HealthMart Pharmacy, Edwardsville, Illinois

3. **Implementation of a Diabetes Education Site Within a Kroger Pharmacy**
   Andrew DiMaggio, Pharm.D. Candidate
   Mentor: Casey Robinson, Pharm.D.
   Kroger Pharmacy, Marion, Illinois
4. **Implementing a Wellness Clinic Within a Medicine Shoppe Pharmacy**  
   Bryce Harrison, Pharm.D. Candidate  
   Mentor: Ed Potts, R.Ph.  
   Medicine Shoppe Pharmacy, Fairfield, Illinois

5. **Lindenwood Drug West: A Business Plan for a Satellite Pharmacy**  
   Jim Hok, Pharm.D. Candidate  
   Mentors: Tom Hunt, R.Ph. & Griffin McNamara, Pharm.D.  
   Lindenwood Drug, St. Louis, Missouri

6. **Business Plan for Klein’s Pharmacy**  
   Kirk Klein, Pharm.D. Candidate  
   Mentor: Mary Eilers, Pharm.D.  
   St. John’s Hospital, Springfield, Illinois

7. **Total Transitions: A Readmissions Reduction Program for Poplar Bluff Regional Medical Center**  
   Savanna Mattingly, Pharm.D. Candidate  
   Mentor: Carrie Vogler, Pharm.D.  
   Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois

8. **Custom Care Pharmacy Business Plan**  
   Marcus Mussatto, Pharm.D. Candidate  
   Mentor: T.J. Allan, Pharm.D.  
   Sullivan Drugs, Gillespie, Illinois

9. **My Recovery Rx: Business & Marketing Plan Proposal**  
   Alana Narup, Pharm.D. Candidate  
   Mentor: Lisa Lubsch, Pharm.D.  
   Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois

    Laura Olsen, Pharm.D. Candidate  
    Mentor: Kevin McBride, Pharm.D.  
    Byrd Watson Drug, Mt. Vernon, Illinois  
    Best Business Plan Presentation Award – SIUE School of Pharmacy Poster and Presentation Day 2014 (tie)

11. **Lilly-Rose Health Management Service Business Plan**  
    Daniel Quinn, Pharm.D. Candidate  
    Mentor: Tim McPherson, Ph.D.  
    Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois
12. *Independent Pharmacy Services Business Plan*
   Alyssa Riederer, Pharm. D. Candidate  
   Mentor: Dan Fieker, R.Ph.  
   Family Care Pharmacy, Highland, Illinois

13. *Wal-Mart Pharmacy Health and Wellness Clinic Business Plan*
   Gold Uche, Pharm.D. Candidate  
   Mentor: Felicia Cooper-Higgins, Pharm.D.  
   Wal-Mart Pharmacy, Evergreen Park, Illinois

   Charles Wieland, Pharm.D. Candidate  
   Mentor: Foster Propst, R.Ph.  
   Martinsville Pharmacy, Martinsville, Illinois

15. *La Farmacia: Improving Access to Medications for Hispanic Americans*
   Christina Wilke, Pharm.D. Candidate  
   Mentor: Steve Smith, R.Ph.  
   Schnucks Pharmacy, Collinsville, Illinois

16. *Business Plan Proposal for Foundation Care Pharmacy*
   Brittney Winkelman, Pharm.D. Candidate  
   Mentor: Michael Schultz, R.Ph.  
   Foundation Care Pharmacy, St. Louis, Missouri  
   Best Business Plan Presentation Award – SIUE School of Pharmacy Poster and Presentation Day 2014 (tie)

**Surveys**

1. *Piloting a Medication Assistance Programs (MAPs) Toolkit*
   Dana Anderson Constant, Pharm.D. Candidate  
   Mentor: Janice Frueh, Pharm.D.  
   Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois

2. *Pilot for Comprehensive Medication Management (CMM) Provided in a Psychiatric Group Home Setting*
   Opal Bacon, Pharm.D. Candidate and Gabrielle Spann, Pharm.D. Candidate  
   Mentor: Kelly Gable, Pharm.D.  
   Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois  
   SIUE Senior Showcase Presenter 2014

3. *Patient-Centered Perspectives Surrounding Mental Health Treatment*
   Jessica Barnfield, Pharm.D. Candidate  
   Mentor: Kelly Gable, Pharm.D.  
   Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois
4. **Patients’ Willingness to Receive and Pay for Medication Therapy Management Services in a Community Setting**  
Matthew Bartlett, Pharm.D. Candidate  
Mentor: Jennifer Rosselli, Pharm.D.  
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois

5. **Assessing Self-Efficacy Levels of Pharmacy Students During the Ambulatory Care Advanced Practice Pharmacy Experience with Regard to Previous Enrollment in a Diabetes Elective**  
Virginia Dickison, Pharm.D. Candidate  
Mentor: Jessica Kerr, Pharm.D.  
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois

Julie Elbl, Pharm.D. Candidate  
Mentor: Christopher Herndon, Pharm.D.  
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois

7. **Assessment of Pathways to Health Pilot**  
Stephanie Failing, Pharm.D. Candidate  
Mentor: J. Christopher Lynch, Pharm.D.  
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois

8. **Education Outreach: Raising Awareness of Diabetes and Pharmacy Careers:**  
Christopher Flanigan, Pharm.D. Candidate  
Mentor: Catherine Santanello, Ph.D.  
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois

9. **Diabetes Management in Commercial Driver License Holders**  
Kelsey Frichtl, Pharm.D. Candidate  
Mentors: Jessica Kerr, Pharm.D. and Erin Behnen, Pharm.D.  
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois

10. **Survey to Evaluate Patient Satisfaction with Medication Therapy Management Services Provided in a Community Pharmacy**  
Daniel Friedrich, Pharm.D. Candidate  
Mentor: Brittany Gisi, Pharm.D.  
Walgreens Pharmacy, St. Charles, Missouri

11. **Assessment of Clinical Outcomes after Diabetes Education**  
Kelly Hanrahan, Pharm.D. Candidate  
Mentor: Katherine Petkewicz, Pharm.D.  
Veterans Administration CBOC, Elgin, Illinois  
Honorable Mention – SIUE School of Pharmacy Poster and Presentation Day 2014
   Taylor Howell, Pharm.D. Candidate
   Mentor: J. Christopher Lynch, Pharm.D.
   Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois

13. Walgreens Bedside Delivery Service: Easing the Transition from Hospital to Home
   Natalie Lauer, Pharm.D. Candidate
   Mentor: Christie Reyling, R.Ph.
   Walgreens Pharmacy, Collinsville, Illinois

14. Illinois Prescribers’ Attitude on the Utility of Medical Marijuana
   Oliver Mills, Pharm.D. Candidate
   Mentor: Christopher Herndon, Pharm.D.
   Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois

15. Perceptions of Pharmacists as Immunizers in Small Town, Family-Owned Retail Pharmacies
   Katilyn Nihiser, Pharm.D. Candidate
   Mentor: Angela Falk, R.Ph.
   Sav-Mor Pharmacy, Tuscola, Illinois

16. Implementation of the Pharmacy Practice Model Initiative in Illinois Hospitals
   Kristen Nowdomski, Pharm.D. Candidate
   Mentor: William Wuller, R.Ph., M.S.
   Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois

17. A Patient Satisfaction Survey on New Topical Compounded Pain Medications
   Mackenzie Ourth, Pharm.D. Candidate
   Mentor: Rod Haselhorst, R.Ph.
   Glen-Ed Pharmacy, Edwardsville, Illinois

18. Average Daily Calcium Intake: Is the Population at Goal?
   Emily Papolczy, Pharm.D. Candidate
   Mentor: Kara Borowiak, R.Ph.
   St. Mary’s Hospital, Centralia, Illinois

19. Patient Perceptions of a Pharmacist-Provided Diabetes Self-Management Education Program in the Community Setting
   Kristie Rees, Pharm.D. Candidate
   Mentors: Linda Lucke, R.Ph., Starlin Haydon-Greatting, M.S., R.Ph. and Garth Reynolds, R.Ph.
   Illinois Pharmacists Association
20. **Patient Knowledge of Over-the-counter (OTC) Medications and Barriers to Discussing OTC Medications with a Pharmacist**  
Elizabeth Russ, Pharm.D. Candidate  
Mentor: Matt Princehorn, Pharm.D.  
Osco Pharmacy, Orland Park, Illinois

21. **Pharmacist-Delivered Zoster Vaccine: Patient Perceptions and Satisfaction**  
Laurie Schou, Pharm.D. Candidate  
Mentor: J. Cody Sandusky, Pharm.D.  
Kroger Pharmacy, Marion, Illinois

22. **Students’ Perceived Abilities to Perform Core Domains During Introductory Pharmacy Practice Experiences (IPPEs)**  
Cara Schrand, Pharm.D. Candidate  
Mentor: Erin Behnen, Pharm.D.  
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois

23. **Evaluating the Effectiveness of Electronic Messaging as a Form of Communication Between Pharmacists and Physicians**  
Nikolas Shaughnessy, Pharm.D. Candidate  
Mentor: Joshua Schmees, Pharm.D.  
St. Elizabeth’s Hospital, Belleville, Illinois

24. **Assessment and Comparison of Learning Styles for Pharmacy, Nursing and Dental Students at a Public Illinois University**  
Melissa Smith, Pharm.D. Candidate  
Mentor: Lakesha Butler, Pharm.D.  
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois

25. **Evaluation of a Community Pharmacy Summer Intern Program Manual**  
Lynsey Vahle, Pharm.D. Candidate  
Mentor: Miranda Wilhelm, Pharm.D.  
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois  
SIUE Senior Showcase Presenter 2014

26. **Survey to Evaluate Satisfaction With and Usefulness of Pharmacist Facilitated Diabetes Conversation Map Sessions**  
Emily Weidner, Pharm.D. Candidate  
Mentor: Christine Reyling, R.Ph.  
Walgreens Pharmacy, Collinsville, Illinois
27. **Social Media Use of Pharmacy Students at Five Pharmacy Schools**  
Max Weiler, Pharm.D. Candidate  
Mentor: Catherine Santanello, Ph.D.  
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois

28. **Evaluation of the Need for a Spanish Language Course for Pharmacists**  
Lauren Youngberg, Pharm.D. Candidate  
Mentor: Marcelo Nieto, Ph.D.  
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois

29. **Vaccination Rates Among Staff in a Community Pharmacy**  
Brook Zumaris, Pharm.D. Candidate  
Mentor: Miranda Wilhelm, Pharm.D.  
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois

**Retrospective Chart Reviews, Drug Utilization Review, Review of Guidelines, etc.**

1. **Nebulized Gentamicin versus Nebulized Tobramycin for Ventilator or Tracheostomy-Related Tracheitis in Pediatric Patients without Cystic Fibrosis**  
Justin Chen, Pharm.D. Candidate  
Mentors: Brittany Martin, Pharm.D. and Lisa Lubsch, Pharm.D.  
Ranken Jordan Pediatric Bridge Hospital, St. Louis, Missouri and Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois

2. **Assessing Pharmacist Involvement in Patients’ Transition of Care Through Pharmacist Discharge Counseling: A Pilot Program**  
Dolly Climaco, Pharm.D. Candidate  
Mentor: Matt Clifton, Pharm.D.  
Sarah Bush Lincoln Hospital, Mattoon, Illinois

3. **Clinical Outcomes of a Multi-State Pharmacy Coaching Program for Patients with Diabetes**  
Kelcey Correll, Pharm.D. Candidate and Anand Patel, Pharm.D. Candidate  
Mentors: Starlin Hayden-Greatting, M.S., R.Ph. and Garth Reynolds, R.Ph.  
Illinois Pharmacists Association  
SIUE Senior Showcase Presenter 2014

4. **Drug Utilization Evaluation of Dosing Combivent Respimat® Inhaler**  
Amanda Crane, Pharm.D. Candidate  
Mentor: Meghan Schrumpf, Pharm.D.  
Schnucks Pharmacy, Godfrey, Illinois
5. Role of Pharmacists in Monitoring Behavioral Medication Pharmacotherapies Utilizing the Illinois Prescription Drug Monitoring Program
   Kacey Crum, Pharm.D. Candidate
   Mentor: Randy Malan, R.Ph.
   Illinois Department of Human Services Clinical Director, Springfield, Illinois

6. Measuring True Adherence Rates to Oral Chemotherapy Agents in an Outpatient Setting
   Valerie Currier, Pharm.D. Candidate
   Mentor: Jason Harlow, Pharm.D.
   Illinois Cancer Care, Peoria, Illinois

7. Assessing Occupational Hazard Risk of Select Compounded Monoclonal Antibodies and Protein Kinase Inhibitors
   Brendan Freitag, Pharm.D. Candidate
   Mentor: Kelly Taylor, Pharm.D.
   OSF St. Francis Medical Center, Peoria, Illinois

8. Inpatient Chronic Obstructive Pulmonary Disease Exacerbation Treatment in Accordance with Current Guideline Recommendations: A Retrospective Chart Evaluation
   Mallory Klein, Pharm.D. Candidate
   Mentor: Jennifer Arnoldi, Pharm.D.
   Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois

9. Comparison of Nonprescription Patient Encounters Experienced During Required Community Advanced Pharmacy Practice Experiences and the Didactic Self-Care Curriculum
   Erika Miller, Pharm.D. Candidate
   Mentor: Miranda Wilhelm, Pharm.D.
   Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois

10. Fixed Dosing vs. Weight-Based Dosing of Rasburicase in Oncology Patients
    Westley Moll, Pharm.D. Candidate
    Mentor: Keith Hecht, Pharm.D.
    Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois

11. A Retrospective Drug Utilization Review of Palivizumab for Respiratory Syncytial Virus Prophylaxis
    Samiyah Munshi, Pharm.D. Candidate
    Mentors: Shelly Messenger, R.Ph. and Farouk Sadiq, M.D.
    SSM Cardinal Glennon Children’s Hospital, St. Louis, Missouri
12. Adverse Events, Emergency Department (ED) Utilization, and Financial Burden Associated with Warfarin Therapy in Older Adults Presenting to the ED
Cheyenne Newsome, Pharm.D. Candidate and Allie Ruggless, Pharm.D. Candidate
Mentor: J. Mark Ruscin, Pharm.D.
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois
SIUE Senior Showcase Presenter 2014

13. Evaluation of Rivaroxaban Use in a Teaching Hospital
Katie Nicholls, Pharm.D. Candidate
Mentor: Jingyang Fan, Pharm.D.
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois

14. Trends of Glucocorticoid-Induced Osteoporosis Preventive Treatment in a Federally Qualified Health Center
Christopher Selby, Pharm.D. Candidate
Mentor: Dr. Jennifer Rosselli, Pharm.D.
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois
SIUE Senior Showcase Presenter 2014

15. Initiating an Antimicrobial Stewardship: Pharmacy Dashboard
Tracy Shewell, Pharm.D. Candidate
Mentor: Julia Schimmelpfennig, Pharm.D.
St. Elizabeth’s Hospital, Belleville, Illinois

16. Potentially Inappropriate Medication Use in Long-Term Care Facilities
Bryce Shilts, Pharm.D. Candidate
Mentors: J. Mark Ruscin, Pharm.D. and Randy Malan, R.Ph.
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois and Illinois Department of Human Services Clinical Director
Honorable Mention – SIUE School of Pharmacy Poster Day 2014

17. Incidence of Red Man Syndrome with Vancomycin in Pediatric Cystic Fibrosis Patients
Rahim Soltanshahi, Pharm.D. Candidate
Mentor: Lisa Lubsch, Pharm.D.
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois

18. Increasing Medication Availability at a 300-Bed Hospital in Missouri
Jon Urbina, Pharm. D Candidate
Mentor: Patricia Mitchell-Fitzgerald, R.Ph., M.B.A.
St. Joseph Health Center, St. Charles, Missouri
19. *The Use of Acid Reducers in Pediatric Patients with Cystic Fibrosis*
   Gina Westermeier Pharm.D. Candidate
   Mentor: Lisa Lubsch, Pharm.D.
   Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois
   SIUE Senior Showcase Presenter 2014

20. *An Evaluation of Pediatric Risk Factors for Red Man’s Syndrome*
    Daniel Willhoit, Pharm.D. Candidate
    Mentor: Miranda Nelson, Pharm.D.
    Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois

**Other**

1. *Neuropathic Pain Case Study: Searching for a Cause through Genomic Data*
   Clint Coleman, Pharm.D. Candidate
   Mentor: Ronald Worthington, Ph.D.
   Southern Illinois University Edwardsville School of Pharmacy, Edwardsville, Illinois

2. *Can Risk of Allopurinol-Induced SCAR be Inferred from 23andme Genotype Data?*
   Katie Donald, Pharm.D. Candidate
   Mentor: Ronald Worthington, Ph.D.
   Southern Illinois University Edwardsville School of Pharmacy, Edwardsville, Illinois

3. *Genetic Analysis of Possible Adverse Events from Anti-Hypertension Medications in a Subject from the Harvard Personal Genome Project*
   Micki Evansco, Pharm.D. Candidate
   Mentor: Ronald Worthington, Ph.D.
   Southern Illinois University Edwardsville School of Pharmacy, Edwardsville, Illinois

4. *Production of Diabetes Shared Medical Appointment Program for Veterans Affairs Medical Center*
   Elizabeth Flores, Pharm.D. Candidate
   Mentor: Jessica Kerr, Pharm.D.
   Southern Illinois University Edwardsville School of Pharmacy, Edwardsville, Illinois

5. *Genetic Analysis of Essential Hypertension Risk in a Subject from the Personal Genome Project*
   Stephanie Hufstedler, Pharm.D. Candidate
   Mentor: Ronald Worthington, Ph.D.
   Southern Illinois University Edwardsville School of Pharmacy, Edwardsville, Illinois

6. *Global Education Initiative for SIUE-SOP Students*
   Erin Johnson, Pharm.D. Candidate
   Mentor: Misty Gonzalez, Pharm.D.
   Southern Illinois University Edwardsville School of Pharmacy, Edwardsville, Illinois
7. Development of a Health Literacy Tool for Assessment of Pharmacy Knowledge in the Deaf Population
   Lindsay McNeely Schmees, Pharm.D. Candidate
   Mentor: McKenzie Ferguson, Pharm.D.
   Southern Illinois University Edwardsville School of Pharmacy, Edwardsville, Illinois

8. Standardized Patient Evaluation of Student Blood Pressure Technique in Physical Assessment Course
   Katelyn Mitchell, Pharm.D. Candidate
   Mentor: Carrie Vogler, Pharm.D.
   Southern Illinois University Edwardsville School of Pharmacy, Edwardsville, Illinois

9. OTC Helper: A Pharmacist’s Guide to Self-Care
   Scott Powers, Pharm.D. Candidate
   Mentor: John Kocka, RPh.
   Walgreens Pharmacy, Glen Carbon, Illinois

10. Design and Implementation of a Quality Improvement Measure for Transdermal Fentanyl Prescribing
   Kyle Swingler, Pharm.D. Candidate
   Mentor: Jennifer Arnoldi, Pharm.D.
   Southern Illinois University Edwardsville School of Pharmacy, Edwardsville, Illinois