BIOGRAPHICAL SKETCH

| Su Folico | Instructor | |
|------------------------|------------------------------------|--|
| | | |
| ARA COMMONS LISER NAME | | |
| | Division of Critical Care Medicine | |
| SU FELICE | | |
| | | |

EDUCATION/TRAINING

| INSTITUTION AND LOCATION | DEGREE | MM/YY | FIELD OF STUDY | |
|---|--------|----------------|--|--|
| Northwestern University, Evanston, IL | BS | 06/97 | Medicine | |
| Feinberg School of Medicine Northwestern University, Chicago, IL | MD | 06/00 | Medicine | |
| University of Texas Southwestern Children's Medical Center of Dallas, Dallas, TX | | 07/00-06/03 | Pediatrics (Residency) | |
| The Children's Hospital of Philadelphia, Philadelphia, PA | | 07/03-06/06 | Pediatric Critical Care Medicine (Fellowship) | |
| University of Pennsylvania, Philadelphia, PA | | 09/05-09/08 | Masters Program in Translational Research | |
| PROFESSIONAL CERTIFICATIONS | | Years | FIELD OF STUDY | |
| Pediatric Advanced Life Support | | 2000 – current | | |
| American Board of Pediatrics | | 2004 – current | Pediatrics | |
| American Board of Pediatrics - Subspecialty | | 2006 – current | Pediatric Critical Care Medicine | |
| CITI Collaborative Institutional Training Initiative | | 2006 – current | | |

A. Personal Statement

My long-term career goal is to improve the safety and efficacy of medications used to treat and support critically ill children. The need for well-trained investigators who bring innovative pharmacotherapeutic approaches forward is of great significance particularly in pediatrics. I am fully committed and highly dedicated to this field of study and intend to become a well-recognized leader in pediatric clinical pharmacology and pharmacometrics.

B. Research and/or Professional Experience

Employment

| DEPARTMENT & ORGANIZATION | DEPT. CHAIR | RANK/ POSITION | TENURE | MM/YY |
|--|-------------------------------------|--------------------------------------|--------------------------|-------------------|
| Department of Pediatrics University of Texas at Southwestern Children's Medical Center of Dallas, Dallas, TX | Charles M. Ginsburg, M.D. | Resident, Pediatrics | Full-time | 07/00- 06/03 |
| Dept of Anesthesiology & Critical Care Medicine The Children's Hospital of Philadelphia, Philadelphia, PA | William J. Greeley, M.D., M.B.A. | Fellow, Critical Care Medicine | Full-time | 07/03- 06/06 |
| Dept of Anesthesiology & Critical Care Medicine University of Pennsylvania, Philadelphia, PA | William J. Greeley, M.D., M.B.A. | Assistant Professor | Full-time, Non-tenure | 07/06- 11/08 |
| Department of Pediatrics Stanford University, Palo Alto, CA | Hugh O'Brodovich, M.D. | Instructor | Full-time, Non-tenure | 12/08- current |

<u>Honors</u>

- 1993 2000 Honors Program in Medical Education, Feinberg School of Medicine, Northwestern University, Evanston & Chicago, IL
- 1997 Medical Student Research Scholarship, Feinberg School of Medicine, Northwestern University, Chicago, IL
- 2006 Fellows' Research Poster Award, The Joseph Stokes, Jr. Research Institute, The Children's Hospital of Philadelphia, Philadelphia, PA
- 2006 2007 NIH Clinical Research Feasibility Fund (CReFF) Pilot Award
- 2005 2008 Institute of Translational Medicine and Therapeutics Research Fellowship, University of Pennsylvania School of Medicine, Philadelphia, PA

Professional Societies and Public Advisory Committees

2003 – current Society of Critical Care Medicine

- 2000 current American Academy of Pediatrics, Fellow
- 2013 current Review Editor, Frontiers in Obstetric and Pediatric Pharmacology

C. Peer-reviewed Publications

Most relevant to the current application

- 1. **Su F,** Lee J, Shi H, Zuppa A. (2007). Sensitive and specific liquid chromatography-tandem mass spectrometric method for the quantitation of dexmedetomidine in pediatric plasma. Journal of Chromatography B. 852(1-2):195-201.
- 2. Su F, Zuppa AF, Adamson PC. (2007) Untying the Gordian knot. Anesthesia and Analgesia. 104(4):993.
- 3. **Su F**, Nicolson SC, Barrett JS, Adamson PC, Kang DS, Godinez RI, Zuppa AF. (2010). Population pharmacokinetics of dexmedetomidine in infants following open-heart surgery. Anesthesia and Analgesia. 110(5):1383-1392. PMCID: PMC3041635
- 4. **Su F**, Hammer GB. (2011). Dexmedetomidine: pediatric pharmacology, clinical uses and safety. Expert Opinion on Drug Safety.10(1): 55-66.
- Su F, Nicolson SC, Zuppa AF. (2013). A dose-response study of dexmedetomidine administered as the primary sedative in infants following open-heart surgery. Pediatric Critical Care Medicine. 14(5);499-507. PMCID: PMC3720685
- 6. **Su F**, Zuppa AF. (2013). Developmental Aspects of Pharmacokinetics and Pharmacodynamics: Pediatric Pharmacology. In: Lockman JL, editor. *Pediatric Anesthesiology Review Topics (PART): Pharmacology for the Pediatric Anesthesia Provider*. Naerthwyn Press, LLC.

Additional peer-reviewed publications

- Patterson BK, Czerniewski M, Andersson J, Sullivan Y, Su F, Jiyamapa D, Burki Z, Landay A. (1999). Regulation of CCR5 and CXCR4 expression by type 1 and type 2 cytokines: CCR5 expression is downregulated by IL-10 in CD4-positive lymphocytes. Clin Immunol. 91(3):254-262.
- 2. **Su F**, Raghupathi R, Huh JW. (2004). Neurointensive care for traumatic brain injury in children. Available at: http://emedicine.medscape.com. Accessed November 2, 2011.
- 3. **Su F**, Schwab S, Lin R, Henretig F, Osterhoudt KC. (2005). A toddler with obtundation and miosis. Pediatric Emergency Care. 21(3):211-213.
- 4. **Su F**, Raghupathi R, Huh JW. (2013). Traumatic Brain Injury in Children. Available at: http://emedicine.medscape.com/article/909105-overview. Accessed March 19, 2013.

D. Research Support

Ongoing Research Support

Stanford NIH/NCRR CTSA UL1RR025744 Felice Su (PI) 03/14-02/15

Drug Disposition during Pediatric Continuous Renal Replacement Therapy

The major goal of this project is to understand the impact of continuous renal replacement therapy on drug disposition with respect to drug-circuit interactions.

Role: Principal Investigator

Cadence Pharmaceuticals, Inc. Gregory Hammer (PI) 08/12 – 07/14 A Randomized, Placebo Controlled, Multi-Center Study of the Efficacy, Pharmacokinetics and Pharmacodynamics of Intravenous Acetaminophen for the Treatment of Acute Pain in Pediatric Patients The major goal of this project is to determine the pharmacokinetics, tolerability and safety of oral morphine sulfate for the treatment of post-operative pain in children. Role: Investigator

Roxane Laboratories, Inc. Gregory Hammer (PI) 01/10 - 05/14A Multicenter, Open Label, Safety and Pharmacokinetic Study of Oral Morphine Sulfate Administration in Pediatric Subjects 2 years old through 17 years old with Postoperative Pain

The major goal of this project is to determine the pharmacokinetics, tolerability and safety of oral morphine sulfate for the treatment of post-operative pain in children. Role: Investigator

PALISI Network

Scott Weiss (PI) 04/13 - 12/14

SPROUT: Sepsis PRevalence, OUtcomes and Therapies

The major goal of this international multi-center study is to investigate the epidemiology, therapies and outcomes of critically ill children with severe sepsis and septic shock. Role: Site PI

Completed Research Support

LPCH Heart Center Research Program C. Michelle Zebrack (PI) 07/11 – 06/14 Pharmacokinetics of Etomidate in Pediatric Patients Undergoing Cardiac Surgery The major goal of this project is to determine the pharmacokinetics of etomidate in children with complex congenital heart disease.

Role: Investigator

Ernest & Amelia Gallo Award Mihaela Damian (PI) 07/11 - 12/12 The Pharmacokinetics of Dexmedetomidine in Infants and Children following Orthotopic Liver Transplantation The major goal of this project is to determine the pharmacokinetic profile of dexmedetomidine in pediatric patients in the immediate post-operative period following liver transplantation. Role: Investigator/Co-mentor

Hospira, Inc. Gregory Hammer (PI) 01/10 - 01/12A Phase III, Randomized, Double-Blind, Dose-Controlled, Multicenter, Study Evaluating the Safety and Efficacy of Dexmedetomidine in Intubated and Mechanically Ventilated Pediatric Intensive Care Unit Subjects The major goal of this project is to determine whether the administration of dexmedetomidine results in a reduction in the need for midazolam for sedation of critically ill infants and children. Role: Investigator

NIH NO1-HD-4-3386

Hammer (PI) 08/04 - 07/11 Pharmacokinetics and pharmacodynamics of sodium nitroprusside in pediatric subjects The major aim of this project is to characterize the PK and PD of nitroprusside as well as the occurrence of tolerance and rebound hypertension to facilitate FDA labeling in this population. Role: Investigator

NICHD PPRU HD037255-09

Peter Adamson (PI) 07/07 - 06/10

Pediatric Pharmacology Research Unit (PPRU) NICHD

Pharmacokinetic and Pharmacodynamic Study of Dexmedetomidine in Neonates Following Open Heart Surgery

The major goal of this study was to determine the PK/PD of dexmedetomidine in neonates with congenital heart disease following corrective or palliative open-heart surgery Role: Project PI

AstraZeneca, PLC Felice Su (PI) 11/07 - 09/08A Phase I, Randomised, Open-Label, Multi-National Study to Evaluate the Pharmacokinetics of Repeated Once-Daily Intravenous Doses of Esomeprazole in Paediatric Patients 0 to 17 Years Old, Inclusive The major goal of this study was to evaluate the PK of esomeprazole in children. Role: Site PI

ITMAT Faculty Research Fellowship, University of Pennsylvania Felice Su (PI) 09/05 - 06/08The goal of this salary supported research fellowship was to provide protected research time (80%) to facilitate the development of a solid foundation for clinical and translational research for young faculty via participation in

Masters Program in Translational Research. Thesis project: A population pharmacokinetic study of dexmedetomidine in neonates and infants post-operative from cardiac surgery. Role: PI / Research Fellow

GCRC 5-MO1-RR-000240

Felice Su (PI) 03/06 – 06/07

NIH Clinical Research Feasibility Fund (CReFF) Pilot Award

Pharmacokinetic and Pharmacodynamic Study of Dexmedetomidine in Neonates Following Open Heart Surgery

The major goal of this study was to determine the PK/PD of dexmedetomidine in neonates with congenital heart disease following open-heart surgery Role: PI