2016 Regulatory Science Talent Competitions-Presentation Abstracts & Student Biographies

School	**University of Maryland**
1st Place Team	**"M-PROVE: Maximizing Patient Reported Outcomes and Vigilance Efforts"** Using the modern patient to increase participation and signal detection in pharmacovigilance efforts
Team Members	Jill Aquino, Yoon Duk Hong, Peter Nguyen, Justin Penzenstadler, David Tran
Presentation Abstract	Team M-PROVE's project, "Maximizing Patient Reported Outcomes and Vigilance Efforts," proposes to use the modern patient to increase participation and signal detection in pharmacovigilance. Their idea focuses on using Google features to link patients to MedWatch. Many patients perform a Google search when experiencing adverse reactions or side effect from medications. In order to capitalize on that, the team suggested that FDA partner with Google (a partnership that may already be in the process) and include a side bar feature that is able to capture the information typically required for MedWatch. The patients can then easily submit necessary information to MedWatch.
Jillian Aquino	Jillian is pursuing a Doctor of Pharmacy degree at the University of Maryland School of Pharmacy. She previously completed a post-baccalaureate intramural research award at the National Institutes of Health (NIH) during her gap year before pharmacy school and currently works in the clinical pharmacy at NIH. She is also completing a project in the School of Pharmacy's Department of Pharmaceutical Health Services Research to strengthen her knowledge in regulatory affairs and safety surveillance. Jillian hopes to pursue a career in pharmacovigilance in a federal agency or the pharmaceutical industry.
David Tran	David is a third-year Doctor of Pharmacy student at the University of Maryland School of Pharmacy. He graduated with a BS in biochemistry from the University of Virginia and has been working as a pharmacy intern with Target/CVS Pharmacy. He hopes to pursue a career in pharmacy administration.
Peter Nguyen	Peter is a third-year Doctor of Pharmacy student at the University of Maryland School of Pharmacy. He has held a leadership position with the Student Section of the Maryland Public Health Association as well as memberships with the American Pharmacists Association and the National Community Pharmacists Association. His interests include public health as well as diabetes management.
Justin Penzenstadler	Justin Penzenstadler is a third year dual degree student pursuing a Doctor of Pharmacy and a Masters of Science in Pharmacometrics. His research includes improving the classification system of Narrow Therapeutic Index (NTI) drugs, and evaluating open source pharmacometrics software. Justin hopes to develop strategies to utilize healthcare "big data," modeling, and simulation to make informed drug development and regulatory decisions.
Yoon Duk Hong	Yoon is a third-year Doctor of Pharmacy student at the University of Maryland School of Pharmacy. She has a passion for health services and outcomes research. Her research interests include comparative effectiveness research and quality/value assessments. She has a growing interest in patient-reported outcomes and hopes to further explore this field.

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2nd Place Team	**Max Elixirs- *"FDA Logic"*** An all-in-one biologics resource for protein-based therapeutic products for health care professionals
Team Members	Tiffany Do, Kevin Lei, Bob Pang, Kumaran Ramakrishnan, Pragya Shrestha, Huan Tran, Emmanuel Ventura, Joyce Yu
Presentation Abstract	FDA-Logic is an all-in-one biologics reference database for healthcare providers. This database features basic drug information, interchangeability, dosing calculators, REMS, and counterfeit detection tools. Also included in the database are drug shortage alerts, serial tracking, and continuing education opportunities to allow providers easy-access to critical tools regarding biologic drugs.
Tiffany Do	Tiffany is a third-year student at the University of Maryland School of Pharmacy where she is enrolled in the Doctor of Pharmacy/MBA dual degree program. She came to the School of Pharmacy after completing three years of undergraduate study at the University of Maryland, College Park. She currently works as a student pharmacist at the Johns Hopkins Pediatrics Pharmacy and is the historian of the School of Pharmacy's Student Government Association. She would like to pursue a career in pharmacy administration.
Kevin Lei	Kevin graduated from Cornell University with a Bachelor of Science in biology. He is now pursuing a Doctor of Pharmacy at the University of Maryland School of Pharmacy. He has a passion for clinical pharmacy with specific interest in hospice and palliative care.
Bob Pang	Bob is a third-year Doctor of Pharmacy student at the University of Maryland School of Pharmacy and is employed as a student pharmacist at John Hopkins. Bob is president of the School of Pharmacy's student chapter of the Academy of Managed Care Pharmacy. He graduated from the University of California, Berkeley with a degree in molecular and cell biology and has worked for various tech companies in the Silicon Valley including Lockheed Martin. Bob is interested in a career in pharmacy informatics.
Kumaran Ramakrishnan	Kumaran is a third-year Doctor of Pharmacy student at the University of Maryland School of Pharmacy. He graduated from Towson University with a Bachelor of Science in chemistry. Kumaran works at the Johns Hopkins Critical Care and Surgery Pharmacy as a student pharmacist. He is vice president of public relations for the University of Maryland, Baltimore's Toastmasters chapter and is secretary of the School of Pharmacy's Students Promoting Awareness group. He wants to pursue a career in clinical pharmacy.
Pragya Shrestha	Pragya is a third-year Doctor of Pharmacy student at the University of Maryland School of Pharmacy. She received her Bachelor of Science in biochemistry from the University of Maryland, Baltimore County. She works as a student technician in a neuroscience research lab at the University of Maryland School of Medicine. Her research focus is characterizing different proteins involved in attention-like synaptic gating in an Aplysia animal model. She is currently treasurer of the School of Pharmacy's Student Government Association.
Huan Tran	Huan is a third-year Doctor of Pharmacy student at the University of Maryland School of Pharmacy. He is president of the Beta Lambda chapter of Phi Lambda Sigma - the Pharmacy Leadership Society. He graduated from the University of Maryland, College Park with a degree in neurophysiology. Outside of his roles at the School of Pharmacy, Huan sits on the Board of Directors of a local non-profit organization focusing on minority health. Huan is interested in pursuing a career as a pharmacist with the United States Public Health Service Commissioned Corps.

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Emmanuel Ventura	Emmanuel is a third-year Doctor of Pharmacy student at the University of Maryland School of Pharmacy. He is a founding member of the public speaking organization Toastmasters at the University of Maryland, Baltimore. He wants to improve his public speaking skills so that he can convey important information to his audiences more effectively. He seeks to pursue a career with the US Public Health Service.
Joyce Yu	Joyce is a third-year Doctor of Pharmacy student at the University of Maryland School of Pharmacy. She came to the School of Pharmacy after completing two years of undergraduate study at the University of Maryland, College Park. Before pursuing her career in pharmacy, Joyce did internships in research and biotechnology, including one at the Food and Drug Administration (FDA). During her time at the FDA, Joyce co-authored her first manuscript on cancer cell signaling. Joyce serves as the vice president of the School of Pharmacy's student chapter of the American Society of Consultant Pharmacists. Her career interests are in drug advisory and regulatory affairs for new drug developments in the pharmaceutical industry.

School	**University of Rochester**
Title	***"ESCAPE: Emergency Situation Communication Preparedness and Evaluation"*** A program designed to assess and enhance communication of food recalls
Winning Student	Angela Ryck, MPH
Presentation Abstract	Each year in the United States, 48 million people are sickened by food [1]. This accounts for roughly one sixth of the population and results in 128,000 hospitalizations and 3,000 deaths. While anyone can be affected by foodborne illness, pregnant women, young children, older adults, and immunocompromised individuals are at particular risk and are more likely to be sicker or die as a result. In the event of a food outbreak, it is critical that the public receives information in a timely manner. Agencies including the FDA, the CDC, and the USDA are responsible for relaying this critical information to Americans of all ages, ethnicities, and socioeconomic backgrounds. The Emergency Situation Communication and Preparedness Evaluation (ESCAPE) is a two-fold system that will help FDA use a Public-Private Partnership to assess past messages while also improving upon present communications. The ESCAPE Card is a universal card that could be used at a wide range of stores or restaurants when a customer purchases food. The card will be linked to a customer's contact information in order to allow swift and targeted communication to customers that have purchased recalled items and potentially assist with outbreak detection. To aid in the assessment of past communications, the ESCAPE system also includes a community-level survey to be used across the country. The survey would consist of a short series of questions answered online as part of the activation process when users first receive their ESCAPE Card. The data collected could provide insight into how people in different geographical areas have received past communications, and to what extent they have understood the content. The data could also help to identify trends in health literacy across the nation. Foodborne illness is a prevalent but preventable public health issue, and advancements in communication could lessen the burden of this issue in our society. Ultimately, the ESCAPE system has the potential to be expanded to address recalls in areas such as medications and medical devices as well. [1] Estimates of Foodborne Illness in the United States. CDC.gov; 2014.
Student Biography	Angela is a biomedical engineering student in the Center for Medical Technology & Innovation at the University of Rochester. As part of the orthopaedic team, her focus is on designing a device that helps orthotists to make braces for scoliosis patients. Angela has a Masters in Public Health from The George Washington University (2015) and a Bachelors in Science-Business/Science, Technology & Values from the University of Notre Dame (2013).