Personalized Medicines

Team:
• Lead Contact:
  - GV Rex Reklaitis, (ChE)
• Purdue faculty:
  - M. Harris (ChE)
  - C. Laird (ChE)
  - ZK Nagy (ChE)
  - J Pekny (ChE, Cancer Care Engr)
  - L Taylor, (Industrial & Physical Pharmacy)
• Indiana University Medical School
  - Dr David Flockhart, Institute for Personalized Medicine

Vision & Impact:
Vision: The PMM Team will lead the development of manufacturing technology for small scale, distributed manufacturing of drug dosage, which enables cost-effective personalized medicine.
Short term impact: Cancer treatment applications developed w/ IU Med School partners
Long term Impact: Minimize serious risk of under-and over-dosing of patients by replacing current “one size fits all” treatments with a drug regimen guided by “Drop on Demand” technology combined with novel NSF funded model-based dose optimization tools.

Customer Base:
• GSK, Eli Lilly, Abbvie, Cancer Care Foundations and patient organizations (e.g Gateway, Multiple Myeloma), FDA and NIH