

# West Virginia Clinical and Translational Science Institute

## *Innovation and Commercialization*

April 25, 2017



# Background

- Academic home and catalyst for clinical and translational research
- Funded by the National Institute of General Medical Sciences Clinical and Translational Research IDeA (CTR) Award
- Statewide effort:
  - WVU
  - Marshall University
  - WV School of Osteopathic Medicine
  - CAMC/WVU-Charleston, WV
  - NIOSH
  - WV VA

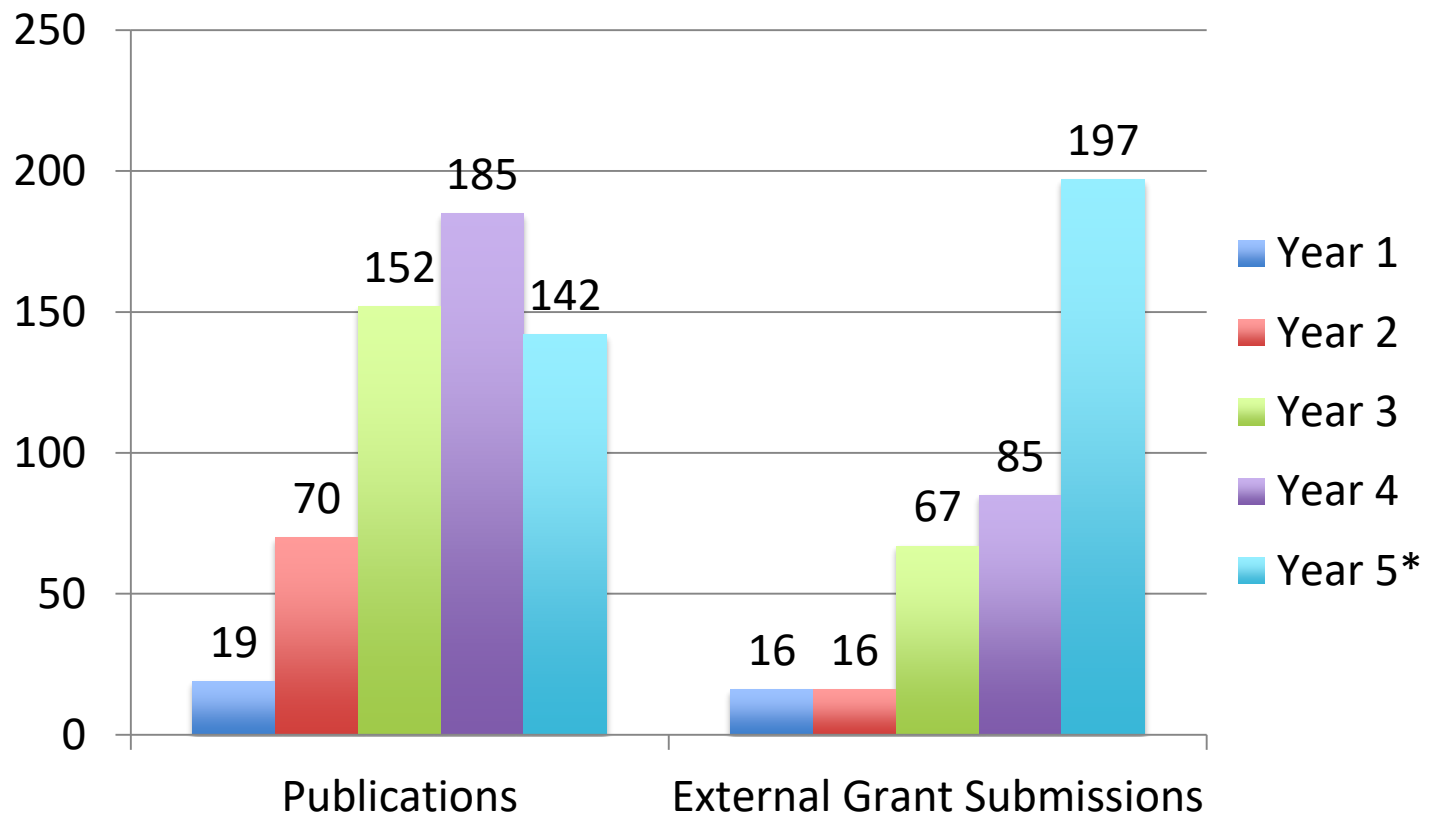
## CTSI Cores



# West Virginia Practice-Based Research Network

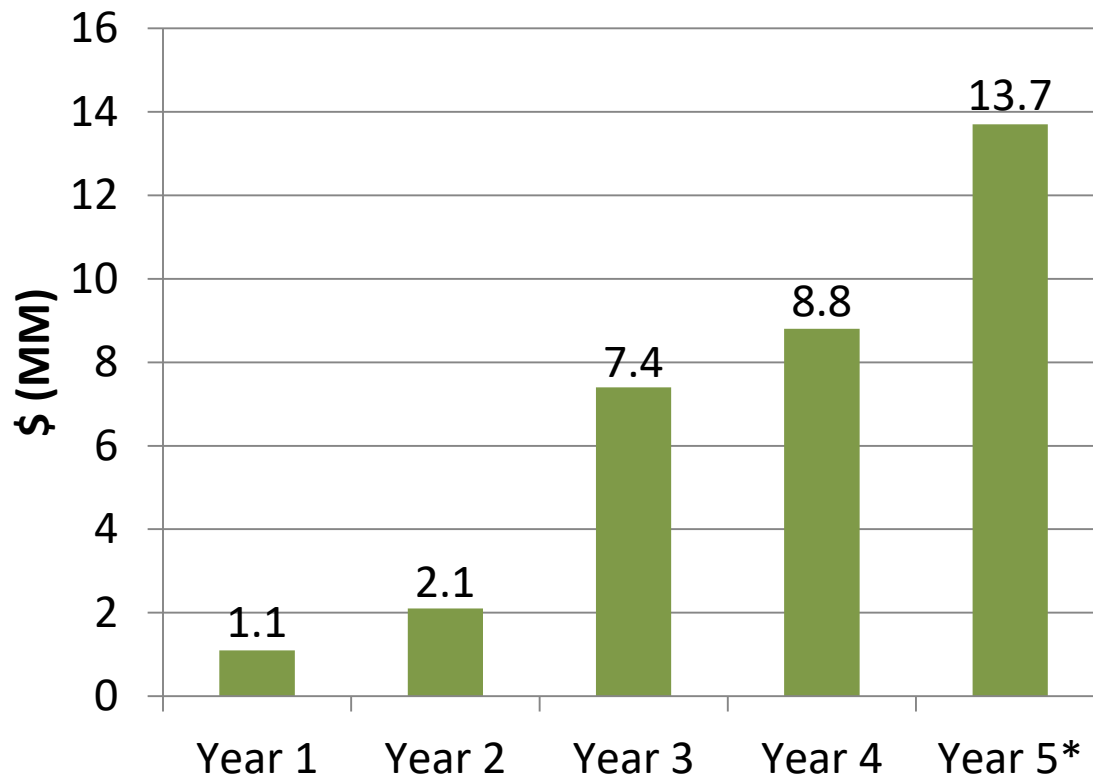


# Research Productivity by Year



\*Year 5 to March 2017

# Total External Funding Awards WVCTSI Investigators



\*Year 5 to March 2017

# Return on Investment

- To date, **\$39,374,325.27** has been invested (NIH and institutional support) by WVCTSI
- **\$32.5 MM** in new external research funding has been enabled
  - Includes transferred awards, new funding awards, and industry contracts
- **315 individuals** have been employed (full and part time) as a result of WVCTSI funds
  - **\$17,848,017** invested in wages and fringe benefits
- Additional **scientific training opportunities for 63 graduate students 72 undergraduates** were also made available by WVCTSI funding

# Three Examples of Commercialization in WVCTSI

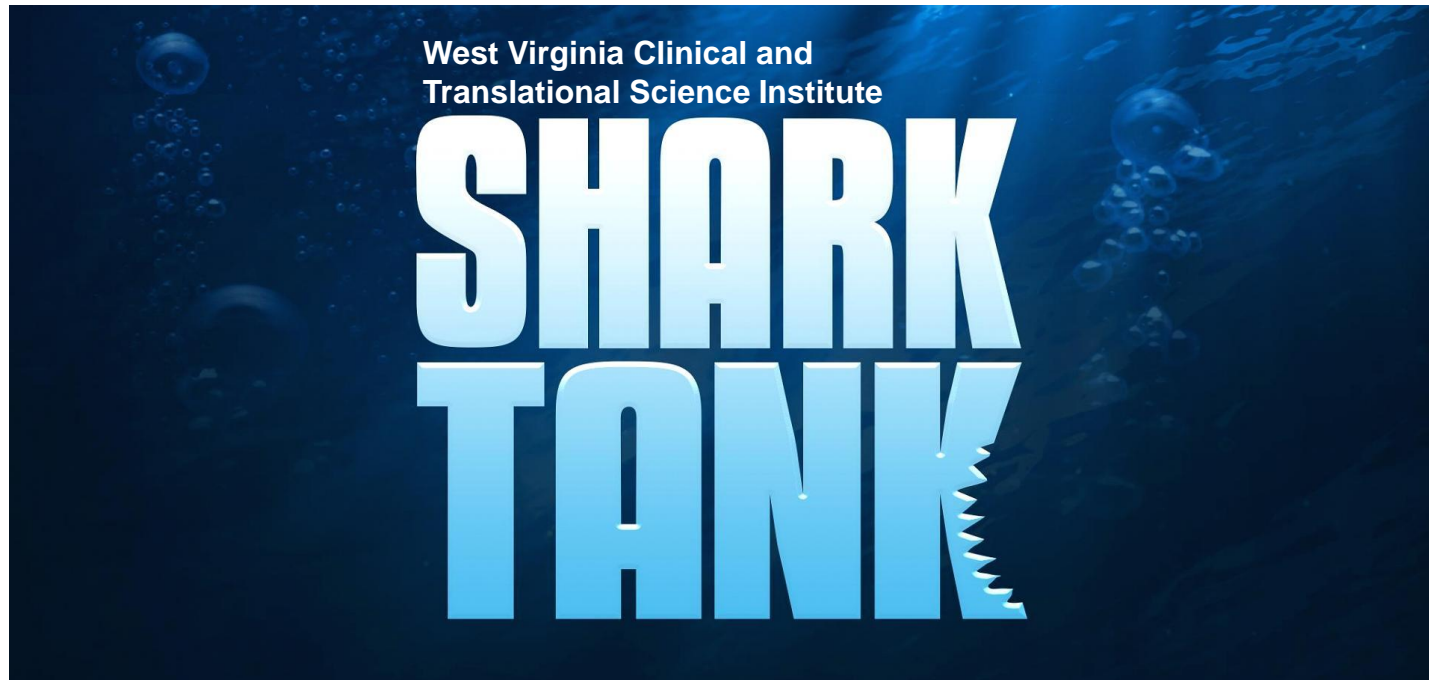
- Launch-Pad Pilot Program
- Sharktank
- CTSI as commercialization roadmap whisperer



# Launch Pad Pilot Grants

- Six-month - \$50,000 awards
- Goal is to accelerate the translation of intellectual property
- Projects should be licensable or poised for commercialization within 6-9 months of award
- Differ from general pilot RFA in that Launch Pad focuses solely on the development of technologies and intellectual property





- Focus on projects involving potential intellectual property
- Teams asked to consider new and unpredictable experiments in their ideas
- Three minute pitch of their idea
- Of nearly 20 applications, 5 teams were selected to pitch their idea to the “Sharks” at the 2016 WVCTSI Annual Meeting
- Prize was \$10,000 for idea development
- The winner was Dr. Kyle Ritchie with his product “The RPC (Rapid Pulse Confirmation) Device”

# The Commercialization Roadmap Whisperer

- Magnate recruitment of premier group in electronic paramagnetic resonance
- Investment in equipment for humans
- Negotiated institutional participation in human trial funded by NCI
- Initiated group meetings to develop a roadmap for future funding
  - Patents
  - New applications
  - Further external funding



*Example EPR equipment at  
University of Texas  
Source: [epr.cm.utexas.edu](http://epr.cm.utexas.edu)*

# Conclusions

- Commercialization is an important cross-cutting theme of WVCTSI
- Enormous opportunity to collaborate across institutions
- Innovative, stimulating formats such as the Sharktank are useful to drive investigator early interest

# Thank You

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