This year, the Weil Institute brought in a combined total of $7,125,706 in research support to our members through resources such as our Proposal Development team and Grand Challenge events.

- **External Funding Sources** (NIH, DoD, Cber etc.)
- **U-M Funding Sources** (OVPR, CVC, etc.)
- **Massey Grand Challenge**
- **Kahn Grand Challenge**

2023's Highest Funded Awards for Well-Empowered Projects:

- **$3.3M**
  - NIH (NIHESSTEM) Rejected
  - Great Lakes Consortium
  - Robert Hyer, MD
  - Boston Children’s
  - Michael Puskarich, MD, MSCR

- **$1.2M**
  - NIH (NIBIB)
  - ACCE Training Program
  - Kevin Oldham, PhD, Katal Jurajda, MD
  - Kevin Ward, MD

More than Grants: Supporting Tomorrow’s Scientists

This year, the Weil Institute also supported:

- **$6,059,953** in Proposal Development-supported grants funded
- **30%** Total Funding Success Rate
- **Compared to 10-20% NIH success rate**

**Proposal Development**

- **$6,059,953** in Proposal Development-supported grants funded

**Clinical Research Team**

- **10** Well member studies supported
- **500+** Patients Screened
- **200+** Patients Enrolled & Tested

**Large Animal Laboratory**

- **8 Projects Supported**
- **6 New Published Papers**
- **3 New Models Developed**
  - Multicenter Sine Cardiae Arrest Registry
  - Post-TBI Breath Analysis Using Portable Care Chromatography
  - Ultrasonic-based Flow-pressure Index for Assessing Cerebral Autoregulation

**Data Science**

- **PICTURE Deployed at U-M Health**
  - The Weil Institute-developed predictive analytic PICTURE deployed with the U-M Health Rapid Response Team, helping care teams stop the spark of patient deterioration before it starts.

**Weil Institute Programs & Events**

- **Visiting Scholar Seminars**
  - Michael Puskarich, MD, MSCR
  - Geoffrey Ling, MD, PhD, DSci (Hon)

- **Weil and U-M COE Coalition**
  - Launch Acute Care Engineering annual magazine, BME Innovations

- **A Year in News Stories**
  - **January**: Weil Institute deputy director’s study on the gut microbiome covered in Newsweek
  - **February**: AHI, GROA, GC device selected as “Michigan Answers” that could change the world
  - **March**: Well and U-M COE launch Acute Care Engineering Training Program
  - **April**: Weil Institute hosts the inaugural Kahn, Pediaric Critical Care Grand Challenge
  - **September**: A new study finds AHI predicts instability before vital signs with clinically significant lead time
  - **October**: Weil Institute joins National Football Leagues expanded Smart Heart Sports Coalition
  - **November**: PICTURE predictive analytic validated at Hurley Medical Center
  - **December**: Weil partner Precision Therapeutics deploys over 800 Turn-i-Kits to the front lines of Ukraine

**Connections**

- **28k** New Visitors to Website
- **11k** Social Media Impressions
- **872** Newsletter Subscribers
- **274** Institute Members

**Product Development & Commercialization**

- **Model Performance Diagnostics (MPD) Suite Debuts!**

  - Our MPD software fills a key niche in the FDA’s call for post-market surveillance of Software-as-a-Medical-Device for AI and Machine Learning models. We engaged industry and research partners in the design and build-out of MPD and have already integrated it with PICTURE. We will continue to expand MPD’s features and will conduct usability testing on its web interface in partnership with the University of Michigan School of Information.

  - **MPD was a Featured Innovation at**:
    - Investing in Innovation Webinar (Yale/UCLA)
    - Celebrate Invention (U-M Office of Innovation)

- **New Models Developed**
  - Portable Gas Chromatography
  - Post-TBI Breath Analysis Using Portable Care Chromatography
  - Ultrasonic-based Flow-pressure Index for Assessing Cerebral Autoregulation

**Massey Grand Challenge**

- **$6,059,953**
- **Supported grants funded**
- **30%** Total Funding Success Rate

**Wolf Creek XVII**

- **122** Attendees
- **From** 13 **Countries**