

This year, the Weil Institute brought in a combined total of

in research support to our members through resources such as our Proposal Development team and Grand Challenge events.





U-M Funding Sources (OVPR, CVC, etc.)

Massev Grand Challenge

Kahn Grand Challenge

Celebrating Research Support Success

2023's Highest Funded Awards for Weil-Empowered Projects

Great Lakes Consortium Robert Hyzy, MD Hallie Prescott, MD, M.Sc NIH (NHLBI/NIGMS) Robert Dickson, MD

VIH (NIBIB)

ACCE Training Program Kenn Oldham, PhD; Katsuo Kurabayashi, PhD Kevin Ward, MD



More than Grants: Supporting Tomorrow's Scientists

This year, the Weil Institute also supported: MiSciWriters: U-M Graduate Student organization that trains fellow grad students & post-doctoral fellows in science writing.

BrainsRule!: An annual event that teaches middle school students about the brain.







Proposal Development

\$6,059,953

in Proposal Development -supported grants funded

30%

Total Funding Success Rate

Compared to 10-20% NIH success rate

Clinical Research Team

Weil member studies supported

> **Patients Screened**

Patients Enrolled & Tested



- **Projects Supported**
- **New Published Papers**
- New Models Developed
- Multicenter Swine Cardiac Arrest Registry
- Post-TBI Breath Analysis Using Portable Gas Chromatography
- Ultrasound-based Flow-pressure Index for Assessing Cerebral Autoregulation

PICTURE Deployed at U-M Health

Data Science

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.



Attendees

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.







Weil Institute Programs & Events

Massey Regional Conference

Weil Institute announced its plans to form a Massey TBI Research Network that will unite Midwest institutions to enable rapid translation of TBI research and innovations.

Visiting Scholar Seminars



💾 Michael Puskarich, MD, MSCR Emergency Medicine, University of Minnesota







APRIL



MPD was a Featured Innovation at:





Investing in Innovation Webinar (Yale/UCLA) • Celebrate Invention (U-M Office of Innovation

Partnerships)



Licenses Issued



💶 💶 🕞 Geoffrey Ling, MD, PhD, DSci (Hon)

Professor, Neurology; Attending Physician, Neuro Critical Care, Johns Hopkins; DARPA



A Year in News Stories

JANUARY

Weil Institute deputy director's study on the gut microbiome covered in Newsweek.

MAY

Weil Institute hosts the inaugural Kahn Pediatric Critical Care Grand Challenge.

SEPTEMBER

A new study finds AHI predicts instability before vital signs with clinically significant lead time.

FEBRUARY Answers" that could change the world.

JUNE Weil and U-M COE launch Acute Care **Engineering Training** Program.

OCTOBER

Weil Institute joins the National Football League's expanded Smart Heart Sports Coalition.

AHI, GROA, GC device PICTURE predictive selected as "Michigan analytic is externally Medical Center.

MARCH validated at Hurley

JULY

PICTURE deploys with Rapid Response Team at the U-M Health main hospital.

NOVEMBER Weil research covered Engineering annual magazine: **B**ME Innovations.

Trauma donates over 800 Turn-i-Kits to the front lines of Ukraine. AUGUST

Weil partner Precision

The Weil Institute and Turn-i-Kit device are featured on Detroit's Local 4 News.

DECEMBER

in Dept. of Biomedical

Kevin Ward, executive director of the Weil Institute, named National Academy of Inventors fellow.



www.weilinstitute.med.umich.edu

