



School of Medicine and Public Health – SMPH

2025-27 Capital Plan Request

Campus Planning Committee Meeting
November 16, 2023

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School of Medicine and Public Health

Wisconsin Institutes for Medical Research (WIMR) East Wedge Cyclotron and Expansion

- Phase I - ~\$43M; Phase II - ~\$63M
- 53,000 Gross Square Feet (GSF) in total

Overview and trends of the school

- \$524M Sponsored Research Awards in 2021-2022
- 5,026 total (FTE) faculty and staff, including 424 tenure-track faculty members
- 17th in National Institute of Health (NIH) Medical School Funding (2023)
- 600+ graduate students
- 180+ post-doctoral students
- 650+ MD students
- 480+ students in Physical Therapy, Genetics, Physician Assistant, Medical Scientists
- 500+ medical devices, imaging, and pharmaceutical technologies invented or patented with support from the Wisconsin Alumni Research Foundation (WARF)



School of Medicine and Public Health

- Competed successfully for federal (NIH C06) funding - awarded \$8M for construction
- Brings together basic and clinical research in one location, connected to the University Hospital
- Advances knowledge and translates laboratory discoveries to bedside application, ultimately improving Wisconsin's residents' health and beyond
- Aligns with overall strategy:
 1. Optimize resources and meet campus goals
 2. Creating adaptable, healthy, sustainable, resilient, and safe facilities
 3. Maximize the use of campus facilities
 4. Reduce deferred maintenance and create easily maintainable facilities by replacing outdated laboratories with modern and sustainable laboratories
- We, unfortunately, still rely on outdated laboratories and continue to find ways to maximize the use of WIMR facilities



Effect of the Project on Other Relevant Research Programs and Facilities

In response to a voluntary polling request describing funded work supported by the UW Cyclotron facility in October 2022, 81 principal investigators (PIs) listed 129 separate awards distributed from federal agencies and other entities totaling over **\$330M** of user-identified, sponsored research (summarized at right).

Of this, **\$237M** was for internal UW research, and **\$95M** supported work at other U.S. institutions dependent on shipments of longer-lived radionuclides from the UW Cyclotron Group.

Support Source	\$M
NIH	308.5
NSF	0.8
DOE	3.0
UW-Internal	6.4
Foundation	6.1
DOD	5.7
Corporate	2.1
Total	330.5



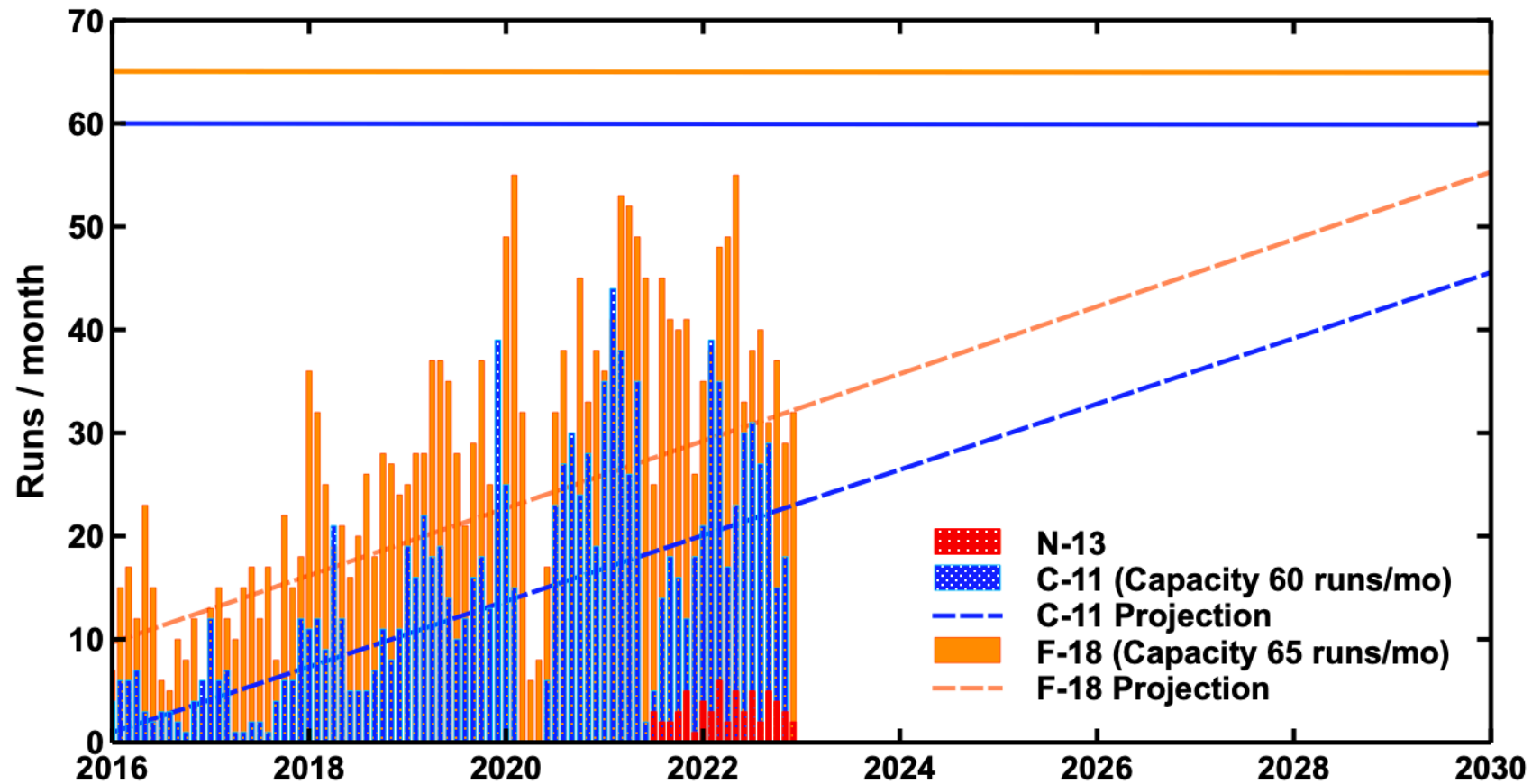
Active Grants Related to Project (small subset)

Table 3. Active Research Grants Directly Related to this Project: A National, Theranostic Cyclotron Resource to Drive Fundamental and Translational Medical Science

Funding Agency	Grant ID Number	PD/PI Name	Annual Direct Costs for Current Fiscal Year	Start and End dates	Title
NIH/NIA	P30AG062715-04	Asthana, Sanjay	\$2,369,958 (FY2022)	05/2019-04/2024	Wisconsin Alzheimer's Disease Research Center (Total Award \$15.06M)
NIH/NIA	R01AG060737-05	Asthana, Sanjay; Herd, Pamela	\$1,682,031 (FY2022)	9/2018-5/2023	Wisconsin Longitudinal Study-Initial Lifetime's Impact on Alzheimer's Disease and Related Dementias (WLS-ILIAD Study) (Total Award \$14.8M)
NIH/NIA	R01AG062285-05	Bendlin, Barbara; Christian, Bradley; Johnson, Sterling	\$738,209 (FY2022)	09/2018-05/2023	SV2A PET imaging in Alzheimer's Disease
NIH/NIBIB	R01EB032349-01A1	Boros, Eszter	\$258,363 (FY2022)	08/2022-08/2026	Harnessing scandium chelation chemistry for the development of radiopharmaceuticals
NIH/NIA	1U19AG068054-01	Handen, Benjamin; Christian, Bradley; Head, Elizabeth; Mapstone, Mark	\$17,946,617 (FY2022)	09/2020-08/2025	Alzheimer's Biomarker Consortium – Down Syndrome (ABC-DS) (Total Award \$100.1M)
NIH/NCI	2P50DE026787-06A1	Harari, Paul M	\$1,313,630 (FY2022)	08/2022-07/2027	Head and Neck Cancer SPORE at the University of Wisconsin (Total Award \$10.9M)
NIH/NIA	R01AG021155-16	Johnson, Sterling	\$1,727,288 (FY2022)	04/2022-03/2027	The Longitudinal Course of Imaging Biomarkers in People at Risk for AD (renewal; \$2.6M in 2022)
NIH/NIA	RF1AG027161	Johnson, Sterling	\$2,489,562 (annual average over total award)	08/2018-09/2023	Wisconsin Registry for Alzheimer Prevention (Total Award \$18.8M; continuously funded since 2007)



Enormous growth over the last seven years

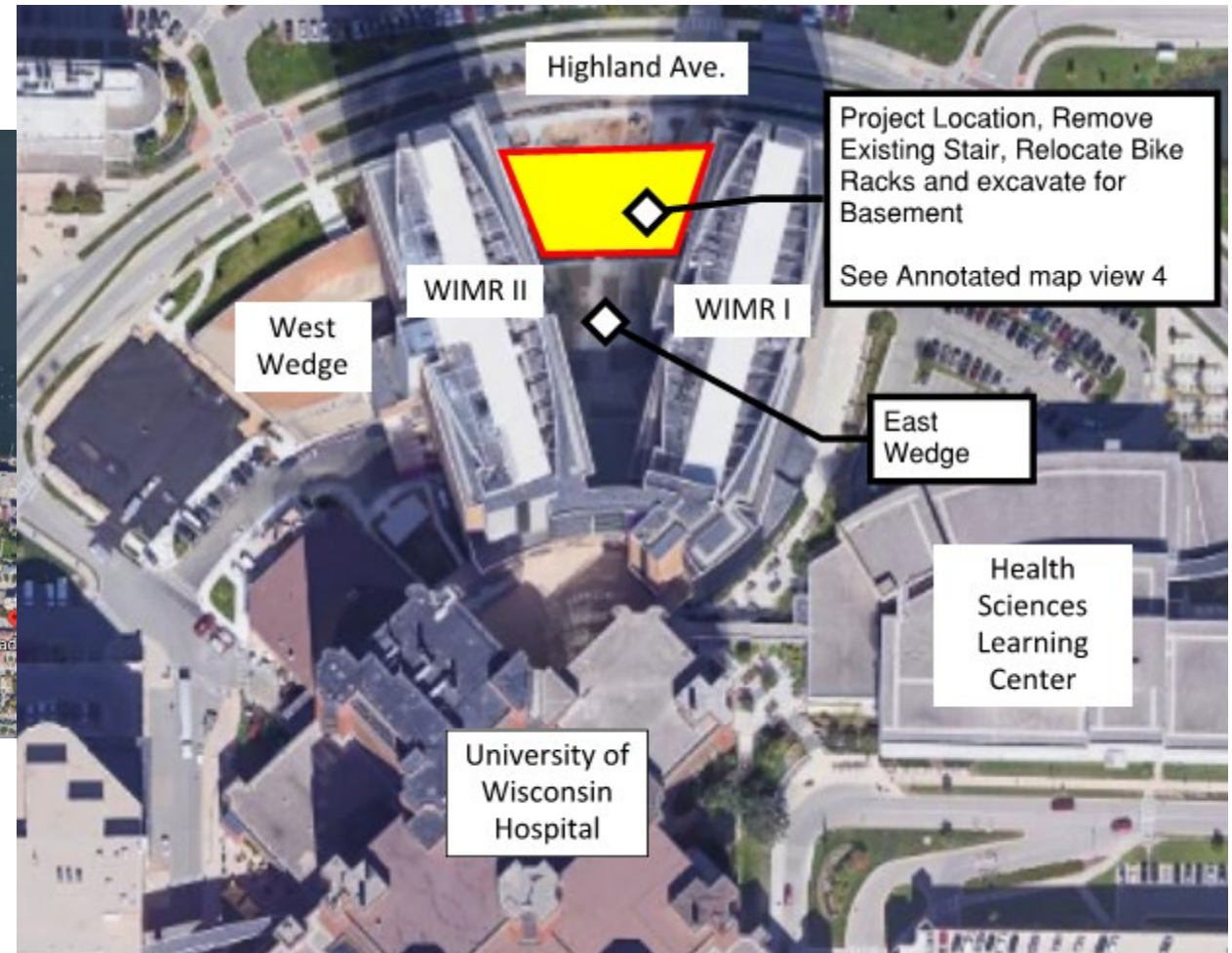




- Note: Phase II will be dependent on fundraising efforts
 - **Phase 1 - Cyclotron and cGMP Radiopharmaceutical laboratories - \$43M**
 - **NIH Sponsored - \$8M**
 - Phase 2 - Theranostics laboratories and biobanking infrastructure - \$63M

[illegible]

WIMR East Wedge Cyclotron and Expansion – 2025-27 Biennium







Connecting Strategic Plan to a Facilities Plan

1. Grow the research enterprise, including world recognition, scholarship, faculty and staff growth, and interdisciplinary collaboration.
2. Foster cutting-edge, basic, translational, education, and health outcomes research.
3. Expand and bring new grants to UW.
4. Strengthen our global recognition in biomedical research. For example, the project supports the UW Carbone Comprehensive Cancer Center, one of 72 Designated Cancer Centers in 36 states funded by the National Cancer Institute and the only one in Wisconsin.

Major Project Priorities 2025-27

1. **WIMR East Wedge Cyclotron and Expansion**
 - Phase I - \$43M
 - Phase II - \$63M
 - 53,000 GSF in total

QUESTIONS?