

D. SUMMARY TABLES

Table 1. Principal Users of the Proposed 3T Instrumentation Upgrade

Total Accessible User Time (AUT) = 2400 hours (annual)

	Principal Investigator	Project Title	NIH Grant Number (Start–End Dates)	Estimated Usage in Annual Hours
Major Users				
1	Rosen	CENTER FOR MESOSCALE MAPPING	P41 EB030006 (07/01/2020–06/30/2025)	150
2	Tempany	ADVANCED TECHNOLOGIES – NATIONAL CENTER FOR IMAGE GUIDED THERAPY (AT-NCIGT)	P41 EB028741 (01/06/2021-12/31/2025)	100
3	Simonyan	UNDERSTANDING DISORDER-SPECIFIC NEURAL PATHOPHYSIOLOGY IN LARYNGEAL DYSTONIA AND VOICE TREMOR	P50 DC019900 (09/15/2021-08/31/2026); R01 DC011805 (03/19/2012-02/28/2027)	100
4	Napadow	BOOSTING MIND-BODY MECHANISMS AND MITIGATING CENTRAL SENSITIZATION IN MIGRAINE	P01 AT009965 (08/01/2018–07/31/2024)	100
5	Guerin	MITIGATION OF PERIPHERAL NERVE STIMULATION (PNS) IN MRI	R01 EB028250 (05/01/2020–01/31/2024)	100
6	Sosnovik	MICROSTRUCTURAL RESPONSE OF THE MYOCARDIUM TO MECHANICAL LOAD	R01 HL159010 (07/01/2021–06/30/2025)	100
7	Montesi	VASCULAR LEAK AND OUTCOMES IN IPF	K23 HL150331 (04/01/2020-03/31/2025) R61 HL158540 (04/01/2021–03/31/2026)	100
8	Lewis	SLEEP-DEPENDENT MODULATION OF CEREBROSPINAL FLUID FLOW IN AGING AND ACROSS GENETIC RISK FOR ALZHEIMERS DISEASE	R01 AG070135 (02/01/2021–01/31/2026) R01 AT011429 (04/01/2021-03/31/2026)	100
9	Bilgic	ADVANCED NEUROIMAGING THROUGH NOVEL ENCODING STRATEGIES AND HARDWARE DESIGN	R01 EB028797 (02/01/2020–11/30/2023)	100
10	Malhotra	CHARACTERIZATION OF FUNCTIONAL IRON DEFICIENCY AND REPLETION IN HEART FAILURE WITH PRESERVED EJECTION FRACTION	R01 HL159514 (07/01/2021-06/30/2025)	100
11	Bianciardi	BRAINSTEM-BASED IMAGING BIOMARKERS OF PREMANIFEST SYNUCLEINOPATHY	R01 AG063982 (5/15/2020–4/30/2025)	100

12	Barry	SPINAL CORD FUNCTIONAL CONNECTIVITY AS A BIOMARKER OF SPINAL CORD DYSFUNCTION	R01 EB027779 (06/01/2019–02/28/2023)	100
13	Maier	DEVELOPMENT OF METHODS FOR A SIMPLIFIED AND RELIABLE PROSTATE CANCER MRI EXAM	R01CA241817 (06/01/2020-05/31/2025)	75
14	Andronesi	DEVELOPMENT OF NEXT GENERATION 2HG AND METABOLIC MR IMAGING FOR PRECISION ONCOLOGY OF MUTANT IDH AND WILDTYPE GLIOMA PATIENTS	R01 CA255479 (02/01/2021–01/31/2026)	75
15	Gerstner	USING MRI AND CIRCULATING TUMOR DNA TO IMPROVE THE INTERPRETATION OF RESPONSE TO IMMUNOTHERAPY AND TARGETED THERAPY IN CNS METASTASES	R01 CA244975 (12/15/2019–11/30/2024)	75
16	Rathi	HARMONIZING DATA ACQUISITION, RECONSTRUCTION, AND ANALYSIS FOR REPRODUCIBLE, CROSS-VENDOR, OPEN-SOURCE MRI	R01 EB032378 (07/01/2022-06/30/2027) R01 MH125860 (07/01/2021-04/30/2026) R01 MH119222 (04/01/2019-01/31/2024) R01 MH116173 (05/01/2018-03/31/2023)	75
17	Das	FUNCTIONAL ROLE AND THERAPEUTIC TARGETING OF EXOSOMES AND EXTRACELLULAR RNA BIOMARKERS IN HEART FAILURE	R35 HL150807 (06/01/2020-05/31/2027)	75
18	Lee	REVEALING TISSUE MICROSTRUCTURE IN THE BRAIN GRAY MATTER IN ALZHEIMER'S DISEASE USING IN VIVO HIGH-GRADIENT DIFFUSION MRI	DP5 OD031854 (09/14/2021-08/31/2026)	75
19	Gholipour	ENHANCED IMAGING OF THE FETAL BRAIN MICROSTRUCTURE	R01EB032366 (03/01/2022-12/31/2025) R01 NS106030 (02/15/2019-12/31/2024) R01 EB031849 (06/15/2021-02/28/2025)	75
20	Huang	TOWARD A VALIDATED IN VIVO IMAGING MARKER OF AXONAL DAMAGE PREDICTIVE OF PROGRESSIVE DISABILITY IN MULTIPLE SCLEROSIS	R01 NS118187 (04/01/2021–03/31/2026)	75
21	Takahashi	ATYPICAL FORMATION OF FIBER PATHWAYS AND CORTICAL FOLDING IN THE BRAIN	R01 NS109475 (07/01/2019–05/31/2024)	75

22	Rosenzweig	UNDERSTANDING THE CARDIAC BENEFITS OF EXERCISE AT THE CELLULAR AND MOLECULAR LEVEL	R35 HL155318 (01/01/2021–12/31/2027) R01 AG061034 (02/01/2019-11/30/2026)	75
23	Nummenmaa	NEAR REAL-TIME SYSTEM FOR HIGH-RESOLUTION COMPUTATIONAL TMS NAVIGATION	R01 MH128421 (02/01/2022–11/30/2026)	75
24	Afacan	MOTION AND DISTORTION ROBUST DIFFUSION WEIGHTED IMAGING SEQUENCES FOR PEDIATRIC PATIENTS	R01NS121657 (01/01/2022-12/31/2026)	75
25	Loggia	NON-INVASIVE MICROSTRUCTURAL ASSESSMENT OF NEUROINFLAMMATION IN CHRONIC PAIN	DOD CP210203 (04/01/2022-03/31/2025) R01 DA053316 (06/01/2021-03/31/2026)	75
26	Nezafat	CARDIAC MR-BASED RISK STRATIFICATION FOR HEART FAILURE AND ATRIAL FIBRILLATION	R01 HL158098 (04/15/2021-03/31/2025) R01 HL158077 (09/01/2021-08/30/2026) R01 HL129185 (09/01/2021-08/30/2025) R01 HL154744 (07/01/2020-06/30/2024)	75

Minor Users

1	Liu	DEEP LEARNING RECONSTRUCTION FOR RAPID MULTI-COMPONENT RELAXOMETRY	R21 EB031185 (04/01/2022–12/31/2024)	50
2	Tian	ADVANCING METHODS FOR MAPPING SHORT-RANGE ASSOCIATION FIBERS IN THE AGING BRAIN	K99 AG073506 (09/05/2021–08/31/2023)	25
3	Frost	SEQUENCE-UNIVERSAL HIGH-FREQUENCY PROSPECTIVE MRI MOTION CORRECTION WITH NAVIGATORS	R21 EB029641 (02/1/2021–11/30/2023)	25

Total Accessible Usage Time (AUT) = 2400 hours (annual)

Total estimated usage time by all Users' projects in annual hours: 2400 hours per year

Percentage of the AUT devoted to Major Users' NIH-funded projects: 96%

Percentage of the AUT devoted to all NIH-funded projects: 97%