



Recipient Information	Federal Award Information																										
1. Recipient Name RECTOR & VISITORS OF THE UNIVERSITY OF VIRGINIA 1001 EMMET ST N CHARLOTTESVILLE, VA 22903	11. Award Number 1U01HL178354-01																										
2. Congressional District of Recipient 05	12. Unique Federal Award Identification Number (FAIN) U01HL178354																										
3. Payment System Identifier (ID) 1546001796A1	13. Statutory Authority 42 USC 241 31 USC 6305 42 CFR 52																										
4. Employer Identification Number (EIN) 546001796	14. Federal Award Project Title Proton and hyperpolarized xenon pulmonary MRI at 0.55T																										
5. Data Universal Numbering System (DUNS) 065391526	15. Assistance Listing Number 93.838																										
6. Recipient's Unique Entity Identifier JJG6HU8PA4S5	16. Assistance Listing Program Title Lung Diseases Research																										
7. Project Director or Principal Investigator CRAIG H MEYER, PHD (Contact) Professor chm5q@virginia.edu 434-243-9495	17. Award Action Type New Competing																										
8. Authorized Official Lauren Armstrong uva_som_ogc@virginia.edu 434-982-1852	18. Is the Award R&D? Yes																										
Federal Agency Information	<table><thead><tr><th colspan="2">Summary Federal Award Financial Information</th></tr></thead><tbody><tr><td colspan="2">19. Budget Period Start Date 09/01/2025 – End Date 06/30/2026</td></tr><tr><td>20. Total Amount of Federal Funds Obligated by this Action</td><td>\$659,644</td></tr><tr><td>20 a. Direct Cost Amount</td><td>\$423,515</td></tr><tr><td>20 b. Indirect Cost Amount</td><td>\$236,129</td></tr><tr><td>21. Authorized Carryover</td><td></td></tr><tr><td>22. Offset</td><td></td></tr><tr><td>23. Total Amount of Federal Funds Obligated this budget period</td><td>\$659,644</td></tr><tr><td>24. Total Approved Cost Sharing or Matching, where applicable</td><td>\$0</td></tr><tr><td>25. Total Federal and Non-Federal Approved this Budget Period</td><td>\$659,644</td></tr><tr><td colspan="2"><hr/></td></tr><tr><td colspan="2">26. Project Period Start Date 09/01/2025 – End Date 06/30/2029</td></tr><tr><td>27. Total Amount of the Federal Award including Approved Cost Sharing or Matching this Project Period</td><td>\$659,644</td></tr></tbody></table>	Summary Federal Award Financial Information		19. Budget Period Start Date 09/01/2025 – End Date 06/30/2026		20. Total Amount of Federal Funds Obligated by this Action	\$659,644	20 a. Direct Cost Amount	\$423,515	20 b. Indirect Cost Amount	\$236,129	21. Authorized Carryover		22. Offset		23. Total Amount of Federal Funds Obligated this budget period	\$659,644	24. Total Approved Cost Sharing or Matching, where applicable	\$0	25. Total Federal and Non-Federal Approved this Budget Period	\$659,644	<hr/>		26. Project Period Start Date 09/01/2025 – End Date 06/30/2029		27. Total Amount of the Federal Award including Approved Cost Sharing or Matching this Project Period	\$659,644
Summary Federal Award Financial Information																											
19. Budget Period Start Date 09/01/2025 – End Date 06/30/2026																											
20. Total Amount of Federal Funds Obligated by this Action	\$659,644																										
20 a. Direct Cost Amount	\$423,515																										
20 b. Indirect Cost Amount	\$236,129																										
21. Authorized Carryover																											
22. Offset																											
23. Total Amount of Federal Funds Obligated this budget period	\$659,644																										
24. Total Approved Cost Sharing or Matching, where applicable	\$0																										
25. Total Federal and Non-Federal Approved this Budget Period	\$659,644																										
<hr/>																											
26. Project Period Start Date 09/01/2025 – End Date 06/30/2029																											
27. Total Amount of the Federal Award including Approved Cost Sharing or Matching this Project Period	\$659,644																										
9. Awarding Agency Contact Information Taryn Cobb Grants Management Specialist NATIONAL HEART, LUNG, AND BLOOD INSTITUTE cobbt@mail.nih.gov 301-827-8025	28. Authorized Treatment of Program Income Additional Costs																										
10. Program Official Contact Information SIDDHARTH KAUP Shenoy NATIONAL HEART, LUNG, AND BLOOD INSTITUTE sidd.shenoy@nih.gov 301-827-4751	29. Grants Management Officer - Signature Tracee Foster																										
30. Remarks Acceptance of this award, including the "Terms and Conditions," is acknowledged by the recipient when funds are drawn down or otherwise requested from the grant payment system.																											



RESEARCH PROJECT COOPERATIVE AGREEMENT
Department of Health and Human Services
National Institutes of Health

Notice of Award



NATIONAL HEART, LUNG, AND BLOOD INSTITUTE

SECTION I – AWARD DATA – 1U01HL178354-01

Principal Investigator(s):

Adrienne Campbell
CRAIG H MEYER (contact), PHD
John P Mugler, PHD

Award e-mailed to: osp-nih-noa@virginia.edu

Dear Authorized Official:

The National Institutes of Health hereby awards a grant in the amount of \$659,644 (see "Award Calculation" in Section I and "Terms and Conditions" in Section III) to The Rector and Visitors of the University of Virginia in support of the above referenced project. This award is pursuant to the authority of 42 USC 241 31 USC 6305 42 CFR 52 and is subject to the requirements of this statute and regulation and of other referenced, incorporated or attached terms and conditions.

Acceptance of this award, including the "Terms and Conditions," is acknowledged by the recipient when funds are drawn down or otherwise requested from the grant payment system.

Each publication, press release, or other document about research supported by an NIH award must include an acknowledgment of NIH award support and a disclaimer such as "Research reported in this publication was supported by the National Heart, Lung, And Blood Institute of the National Institutes of Health under Award Number U01HL178354. The content is solely the responsibility of the authors and does not necessarily represent the official views of the National Institutes of Health." Prior to issuing a press release concerning the outcome of this research, please notify the NIH awarding IC in advance to allow for coordination.

Award recipients must promote objectivity in research by establishing standards that provide a reasonable expectation that the design, conduct and reporting of research funded under NIH awards will be free from bias resulting from an Investigator's Financial Conflict of Interest (FCOI), in accordance with the 2011 revised regulation at 42 CFR Part 50 Subpart F. The Institution shall submit all FCOI reports to the NIH through the eRA Commons FCOI Module. The regulation does not apply to Phase I Small Business Innovative Research (SBIR) and Small Business Technology Transfer (STTR) awards. Consult the NIH website <http://grants.nih.gov/grants/policy/coi/> for a link to the regulation and additional important information.

If you have any questions about this award, please direct questions to the Federal Agency contacts.

Sincerely yours,

Tracee Foster
Grants Management Officer
NATIONAL HEART, LUNG, AND BLOOD INSTITUTE

Additional information follows

Cumulative Award Calculations for this Budget Period (U.S. Dollars)

Salaries and Wages	\$299,372
Fringe Benefits	\$64,497
Personnel Costs (Subtotal)	\$363,869
Materials & Supplies	\$2,000
Travel	\$10,000
Other	\$8,080
Tuition Remission	\$39,566
Federal Direct Costs	\$423,515
Federal F&A Costs	\$236,129
Approved Budget	\$659,644
Total Amount of Federal Funds Authorized (Federal Share)	\$659,644
TOTAL FEDERAL AWARD AMOUNT	\$659,644
AMOUNT OF THIS ACTION (FEDERAL SHARE)	\$659,644

SUMMARY TOTALS FOR ALL YEARS (for this Document Number)		
YR	THIS AWARD	CUMULATIVE TOTALS
1	\$659,644	\$659,644
2	\$555,009	\$555,009
3	\$679,533	\$679,533
4	\$679,533	\$679,533

Recommended future year total cost support, subject to the availability of funds and satisfactory progress of the project

Fiscal Information:

Payment System Identifier: 1546001796A1
Document Number: UHL178354A
PMS Account Type: P (Subaccount)
Fiscal Year: 2025

IC	CAN	2025	2026	2027	2028
HL	8475150	\$659,644	\$555,009	\$679,533	\$679,533

Recommended future year total cost support, subject to the availability of funds and satisfactory progress of the project

NIH Administrative Data:

PCC: LLI / **OC:** 41026 / **Released:** 08/27/2025

Award Processed: 08/28/2025 11:20:44 AM

SECTION II – PAYMENT/HOTLINE INFORMATION – 1U01HL178354-01

For payment and HHS Office of Inspector General Hotline information, see the NIH Home Page at <http://grants.nih.gov/grants/policy/awardconditions.htm>

SECTION III – STANDARD TERMS AND CONDITIONS – 1U01HL178354-01

This award is based on the application submitted to, and as approved by, NIH on the above-titled project and is subject to the terms and conditions incorporated either directly or by reference in the following:

- The grant program legislation and program regulation cited in this Notice of Award.
- Conditions on activities and expenditure of funds in other statutory requirements, such as those included in appropriations acts.
- 45 CFR Part 75.
- National Policy Requirements and all other requirements described in the NIH Grants Policy Statement, including addenda in effect as of the beginning date of the budget period.
- Federal Award Performance Goals: As required by the periodic report in the RPPR or in the final progress report when applicable.
- This award notice, INCLUDING THE TERMS AND CONDITIONS CITED BELOW.

(See NIH Home Page at <http://grants.nih.gov/grants/policy/awardconditions.htm> for certain references cited above.)

Research and Development (R&D): All awards issued by the National Institutes of Health (NIH) meet the definition of "Research and Development" at 45 CFR Part§ 75.2. As such, auditees should identify NIH awards as part of the R&D cluster on the Schedule of Expenditures of Federal Awards (SEFA). The auditor should test NIH awards for compliance as instructed in Part V, Clusters of Programs. NIH recognizes that some awards may have another classification for purposes of indirect costs. The auditor is not required to report the disconnect (i.e., the award is classified as R&D for Federal Audit Requirement purposes but non-research for indirect cost rate purposes), unless the auditee is charging indirect costs at a rate other than the rate(s) specified in the award document(s).

This institution is a signatory to the Federal Demonstration Partnership (FDP) Phase VII Agreement which requires active institutional participation in new or ongoing FDP demonstrations and pilots.

Carry over of an unobligated balance into the next budget period requires Grants Management Officer prior approval.

This award is subject to the requirements of 2 CFR Part 25 for institutions to obtain a unique entity identifier (UEI) and maintain an active registration in the System for Award Management (SAM). Should a consortium/subaward be issued under this award, a UEI requirement must be included. See <http://grants.nih.gov/grants/policy/awardconditions.htm> for the full NIH award term implementing this requirement and other additional information.

This award has been assigned the Federal Award Identification Number (FAIN) U01HL178354. Recipients must document the assigned FAIN on each consortium/subaward issued under this award.

Based on the project period start date of this project, this award is likely subject to the Transparency Act subaward and executive compensation reporting requirement of 2 CFR Part 170. There are conditions that may exclude this award; see <http://grants.nih.gov/grants/policy/awardconditions.htm> for additional award applicability information.

In accordance with P.L. 110-161, compliance with the NIH Public Access Policy is now mandatory. For more information, see NOT-OD-08-033 and the Public Access website: <http://publicaccess.nih.gov/>.

Recipients must administer the project in compliance with federal civil rights laws that prohibit discrimination on the basis of race, color, national origin, disability, age, and comply with applicable conscience protections. The recipient will comply with applicable laws that prohibit discrimination on the basis of sex, which includes discrimination on the basis of gender identity, sexual orientation, and pregnancy. Compliance with these laws requires taking reasonable steps to provide meaningful access to persons with limited English proficiency and providing programs that are accessible to and usable by persons with disabilities. The HHS Office for Civil Rights provides guidance on complying with civil rights laws enforced by HHS. See <https://www.hhs.gov/civil-rights/for-providers/provider-obligations/index.html> and <https://www.hhs.gov/>.

- Recipients of FFA must ensure that their programs are accessible to persons with limited English proficiency. For guidance on meeting the legal obligation to take reasonable steps to ensure meaningful access to programs or activities by limited English proficient individuals, see <https://www.hhs.gov/civil-rights/for-individuals/special-topics/limited-english-proficiency/fact-sheet-guidance/index.html> and <https://www.lep.gov>.
- For information on an institution's specific legal obligations for serving qualified individuals with disabilities, including providing program access, reasonable modifications, and to provide effective communication, see <http://www.hhs.gov/ocr/civilrights/understanding/disability/index.html>.
- HHS funded health and education programs must be administered in an environment free of sexual harassment; see <https://www.hhs.gov/civil-rights/for-individuals/sex-discrimination/index.html>. For information about NIH's commitment to supporting a safe and respectful work environment, who to contact with questions or concerns, and what NIH's expectations are for institutions and the individuals supported on NIH-funded awards, please see <https://grants.nih.gov/grants/policy/harassment.htm>.
- For guidance on administering programs in compliance with applicable federal religious nondiscrimination laws and applicable federal religious conscience protection and associated anti-

discrimination laws, see <https://www.hhs.gov/conscience/conscience-protections/index.html> and <https://www.hhs.gov/conscience/religious-freedom/index.html>.

In accordance with the regulatory requirements provided at 45 CFR 75.113 and Appendix XII to 45 CFR Part 75, recipients that have currently active Federal grants, cooperative agreements, and procurement contracts with cumulative total value greater than \$10,000,000 must report and maintain information in the System for Award Management (SAM) about civil, criminal, and administrative proceedings in connection with the award or performance of a Federal award that reached final disposition within the most recent five-year period. The recipient must also make semiannual disclosures regarding such proceedings. Proceedings information will be made publicly available in the designated integrity and performance system (currently the Federal Awardee Performance and Integrity Information System (FAPIIS)). Full reporting requirements and procedures are found in Appendix XII to 45 CFR Part 75. This term does not apply to NIH fellowships.

Treatment of Program Income:
Additional Costs

SECTION IV – HL SPECIFIC AWARD CONDITIONS – 1U01HL178354-01

Clinical Trial Indicator: No

This award does not support any NIH-defined Clinical Trials. See the NIH Grants Policy Statement Section 1.2 for NIH definition of Clinical Trial.

NHLBI FUNDING GUIDELINES

NIH is currently operating under a Continuing Resolution (See NIH Guide Notice [NOT-OD-25-054](#)) and this award is being issued in accordance with the NHLBI FY 2025 Operating Guidelines which can be found at: <https://www.nhlbi.nih.gov/research/funding/general/current-operating-guidelines>

RECYCLING FUTURE BUDGET PERIOD START DATES

In order to redistribute awards more evenly throughout the fiscal year, this grant has been issued with a 10-month initial budget period with 12 months of monetary support. The continuation award for this grant will cycle each year on July 1st. Information for where to submit reports may be found at: <https://grants.nih.gov/grants-process/post-award-monitoring-and-reporting/reporting-requirements>.

HUMAN SUBJECTS RESTRICTION: DELAYED ONSET

The present award is being made without a currently valid certification of IRB approval for Aims 2 and 3 of this project. Only activities that are clearly severable and independent from activities that involve human subjects) may be conducted pending the NHLBI's acceptance of the certification of IRB approval.

No funds may be drawn down from the payment system and no obligations may be made against Federal funds for any research involving human subjects prior to the NHLBI's notification to the recipient that the identified issues have been resolved and this restriction removed.

SUBJECT FOA

This award is subject to the conditions set forth in the Funding Opportunity Announcement, which are hereby incorporated by reference as special terms and conditions of this award. Copies of this Funding Opportunity Announcement can be found at the following link: <https://grants.nih.gov/grants/guide/pa-files/PA-21-343.html>

KEY PERSONNEL

In addition to the PI, any absence, replacement, or substantial reduction in effort of the following individual(s) below, requires written prior approval of the National Institutes of Health awarding component.

GRADUATE STUDENT COMPENSATION

In accordance with the Guide Notice: [NOT-OD-02-017](#), published on December 10, 2001, in the NIH Guide for Grants and Contracts, total direct costs (salary, fringe benefits and tuition remission) for graduate students are provided at the NIH maximum allowable amount (zero level of the Ruth L. Kirschstein National Research Service Award stipend in effect at the time of the competing award). Support recommended for future years has been adjusted accordingly, if applicable. The full guide notice describing the Fiscal Year 2024 level of compensation allowed for a graduate student can be found at: [NOT-OD-24-104](#).

MULTIPLE PI - Prior Approvals

In keeping with NOT-OD-06-054 (<http://grants.nih.gov/grants/guide/notice-files/NOT-OD-06-054.html>), as this award has multiple Principal Investigators (PIs), although the signatures of all the PIs are not required on prior approval requests submitted to the agency, the recipient institution must secure and retain the signatures of all of the PIs for their own internal processes.

NHLBI-SPECIFIC Data Management and Sharing Policy

This award is being issued with the acceptance of the recipients DMS Plan dated: 4/23/2024. Grantees are required to adhere to the NIH DMS Policy in addition to NHLBI Supplement to the NIH Policy for Data Management and Sharing found at: <https://www.nhlbi.nih.gov/grants-and-training/policies-and-guidelines/nhlbi-policy-for-data-sharing>

OTHER SUPPORT REMINDER INFORMATION

This award is contingent upon the following: No individual who receives salary support from this project may receive compensation for more than 12 calendar months (i.e., 100%) total effort from all of their sources of support.

SALARY CAP

None of the funds in this award shall be used to pay the salary of an individual at a rate in excess of the current salary cap. This award and/or future years may have been adjusted accordingly. Current salary cap levels can be found at the following URL: http://grants.nih.gov/grants/policy/salcap_summary.htm.

PRIOR APPROVAL REQUEST

It is recommended that applicable prior approval requests be submitted via the eRA Commons Prior Approval Module (link: [prior_approval\(nih.gov\)](#)). Please refer to Part II Chapter 8 of the NIH Grants Policy Statement for the activities and/or expenditures that require NIH approval at <http://grants.nih.gov/grants/policy/nihgps/nihgps.pdf>

NON-COMPETING RENEWAL (NON-SNAP)

The NIH requires the use of the Research Performance Progress Report (RPPR) for all Type 5 progress reports. The RPPR and other documents applicable to this Non-SNAP grant are due the first of the month preceding the month in which the budget period ends (e.g., if the budget period ends 11/30, the due date is 10/1). Please see <http://grants.nih.gov/grants/rppr/index.htm> for additional information on the RPPR.

Data Management and Sharing Policy: Applicable

This project is expected to generate scientific data. Therefore, the [Final NIH Policy for Data Management and Sharing](#) applies. The approved Data Management and Sharing (DMS) Plan is hereby incorporated as a term and condition of award, and the recipient shall manage and disseminate scientific data in accordance with the approved plan. Any significant changes to the DMS Plan (e.g., new scientific direction, a different data repository, or a timeline revision) require NIH prior approval. Failure to comply with the approved DMS

plan may result in suspension and/or termination of this award, withholding of support, audit disallowances, and/or other appropriate action. See NIH Grants Policy Statement [Section 8.2.3](#) for more information on data management and sharing expectations.

SPREADSHEET SUMMARY

AWARD NUMBER: 1U01HL178354-01

INSTITUTION: The Rector and Visitors of the University of Virginia

Budget	Year 1	Year 2	Year 3	Year 4
Salaries and Wages	\$299,372	\$262,872	\$287,436	\$287,436
Fringe Benefits	\$64,497	\$64,497	\$72,538	\$72,538
Personnel Costs (Subtotal)	\$363,869	\$327,369	\$359,974	\$359,974
Materials & Supplies	\$2,000		\$2,000	\$2,000
Travel	\$10,000		\$10,000	\$10,000
Other	\$8,080	\$4,040	\$36,540	\$36,540
Tuition Remission	\$39,566	\$19,783	\$19,783	\$19,783
TOTAL FEDERAL DC	\$423,515	\$351,192	\$428,297	\$428,297
TOTAL FEDERAL F&A	\$236,129	\$203,817	\$251,236	\$251,236
TOTAL COST	\$659,644	\$555,009	\$679,533	\$679,533

Facilities and Administrative Costs	Year 1	Year 2	Year 3	Year 4
F&A Cost Rate 1	61.5%	61.5%	61.5%	61.5%
F&A Cost Base 1	\$383,949	\$331,409	\$408,514	\$408,514
F&A Costs 1	\$236,129	\$203,817	\$251,236	\$251,236