

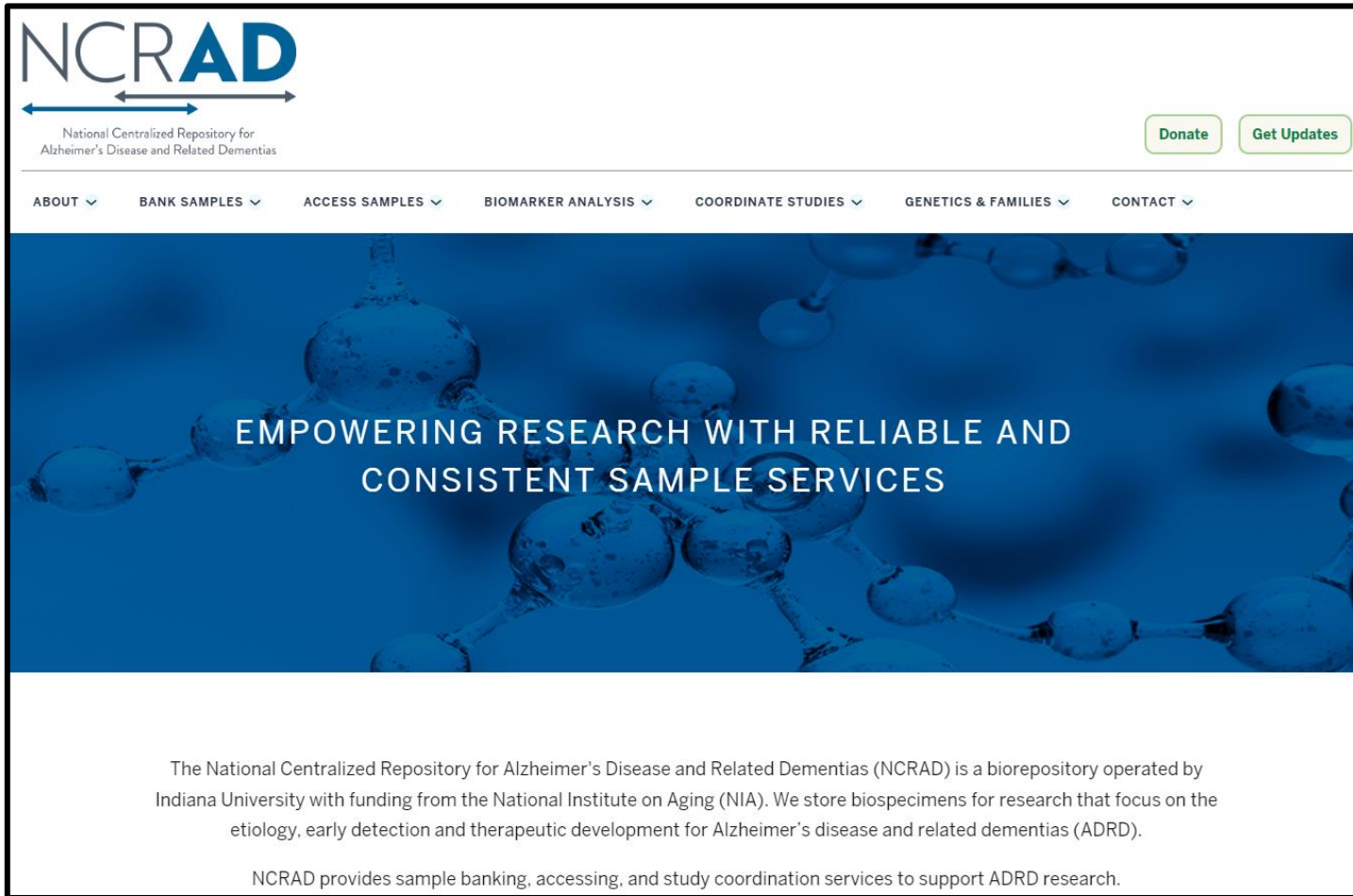
National Centralized Repository for Alzheimer's Disease and Related Dementias (NCRAD) Updates

Support by: U24AG021886



National Centralized Repository for
Alzheimer's Disease and Related Dementias

Updated NCRAD Website!



- Same URL: ncrad.org
- Pages have been reorganized and updated



Updated NCRAD Website!

- Reorganized Biomarker Analysis page
 - BAL Quote Survey link
 - Available biomarker assays
 - Sample collection, processing, and shipping information

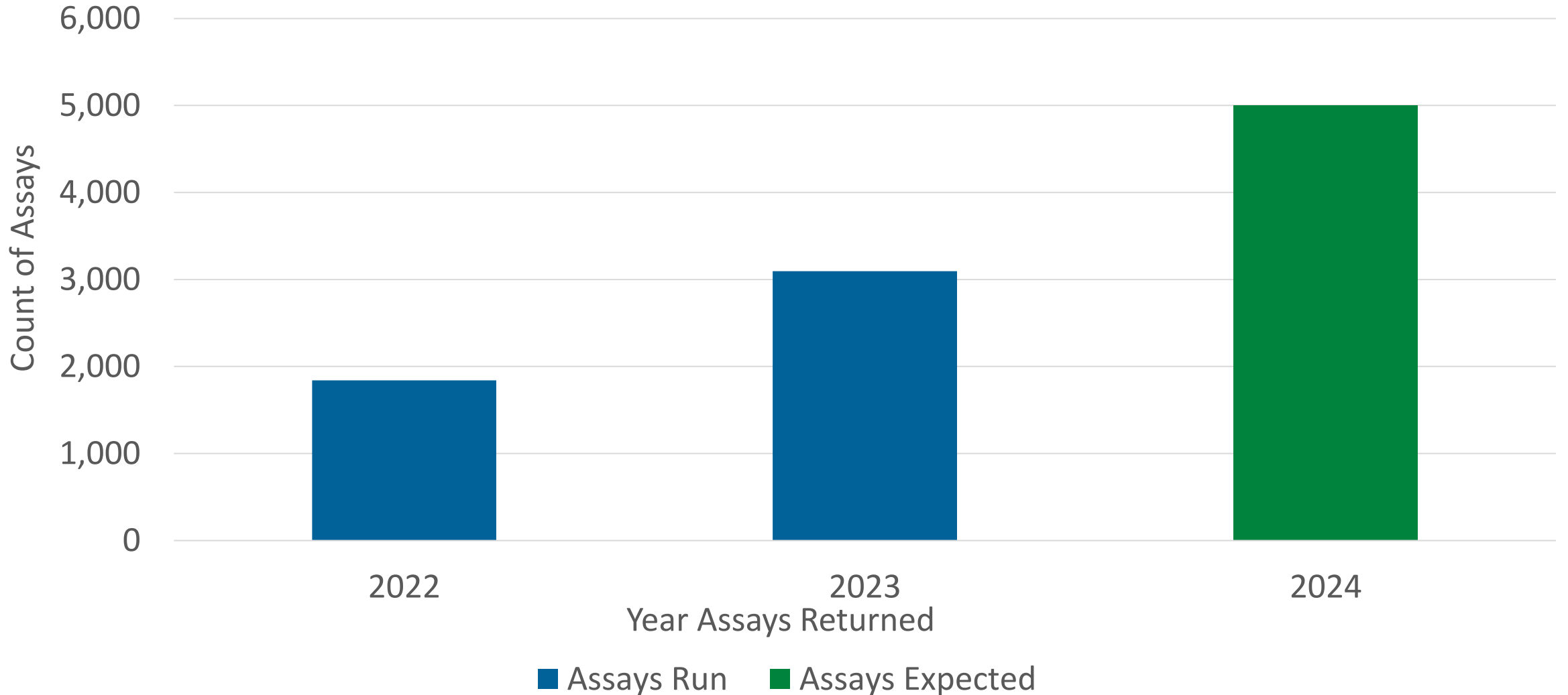


The screenshot displays the NCRAD website interface. At the top left is the NCRAD logo with a double-headed arrow underneath. Below the logo is the text "National Centralized Repository for Alzheimer's Disease and Related Dementias". On the right side of the header are two buttons: "Donate" and "Get Updates". A navigation menu is centered below the header, with the "BIOMARKER ANALYSIS" option highlighted by a green box and a large blue arrow pointing down to it. The main content area shows the "BIOMARKER ANALYSIS" page title, a breadcrumb trail "Home / Biomarker Analysis", and a "Request a Quote" link. The main heading is "ENHANCE YOUR STUDY WITH BIOMARKER ANALYSIS AT NCRAD". Below this is a paragraph: "Discover how we support Alzheimer's disease and related disorders (ADRD) research by providing cutting-edge biomarker analysis services. Explore the range of plasma assays we offer through our Biomarker Assay Laboratory (BAL). Learn about our commitment to standardization and quality, and find out how you can request a quote for your research needs."

2024 ADCFB BAL Assays: Spring Data Return

Assay Kits	Biofluid	Platform	Biomarkers
Neurology 2-Plex B (N2PB) Kit	Plasma	Quanterix Simoa HD-X	NfL, GFAP
pTau 217 Alzpath Kit	Plasma	Quanterix Simoa HD-X	pTau 217
Lumipulse G β -Amyloid 1-42 Kit	Plasma	Fujirebio Lumipulse	Abeta 42
Lumipulse G β -Amyloid 1-40 Kit	Plasma	Fujirebio Lumipulse	Abeta 40

NCRAD BAL: ADCFB Unique Visits with Plasma Assays Returned



Biomarker Data Available at NCRAD

- Biomarker data is returned to contributing site via NACC
- After 90-day data embargo, results are incorporated into NCRAD ADRC catalog to assist researchers in selecting samples for requests
 - Researchers requesting access to these data are vetted to check if they are for profit or not for profit investigators
- Full biomarker dataset will be available to request from NACC in future

The screenshot displays the NCRAD website interface. At the top, the NCRAD logo is accompanied by the text "National Centralized Repository for Alzheimer's Disease and Related Dementias". Navigation links include "ABOUT", "BANK SAMPLES", "ACCESS SAMPLES", "BIOMARKER ANALYSIS", "COORDINATE STUDIES", "GENETICS & FAMILIES", and "CONTACT". The "ACCESS SAMPLES" menu is expanded, showing options for "Available Samples", "Catalogs", "Request Samples", "Publications", and "Grant Acknowledgement". A blue arrow points from the "Grant Acknowledgement" text to the "Register" button. The "DATA CATALOGS" section features a "New users" heading and a "Register" button. Below it, an "Existing Users" section includes a "View Catalogs" button and a "Reset Password" button. A text box on the right provides information about biospecimens and a link to "Browse all available samples".

ADRC Catalog with Biomarker Data

ADRC Catalog														DICTIONARY	JOIN	CART	DOWNLOAD	HELP	Welcome Kelley Faber!	
SAMPLE...	NACCID	Visit	Specime...	Quantity	Quantity ...	Specime...	HD-X pT...	HD-X NFL	HD-X GF...	HD-X AB...	HD-X AB...	GDS_profit								
1607571	NACC874455	1	PLASMA	200	ul	31						for profit								
1642172	NACC456378	7	PLASMA	200	ul	22	2.94	16.47	198.09	159.05	3.46	for profit								
1642198	NACC967500	12	PLASMA	200	ul	34	2.34	17.04	131.43	116.84	4.91	for profit								
1642223.1	NACC666819	11	PLASMA	200	ul	62	4.05	19.33	218.51	124.37	7.46	for profit								
1642223.2	NACC666819	7	PLASMA	200	ul	62						for profit								
1642231	NACC088971	11	PLASMA	200	ul	35	3.47	11.24	70.42	111.36	5.88	for profit								
1642242	NACC244965	11	PLASMA	200	ul	36	6.9	39.51	340.99	274.9	9.01	for profit								
1642253	NACC629445	3	PLASMA	200	ul	24	2.38	8.91	75.87	73.95	4.07	for profit								
1642264	NACC460044	8	PLASMA	200	ul	36	2.41	15.61	172.02	119.53	4.15	for profit								
1642278.1	NACC977671	11	PLASMA	200	ul	42						for profit								
1642278.2	NACC977671	8	PLASMA	200	ul	42	9.49	25.33	220.44	85.04	4.83	for profit								
1642293	NACC686266	11	PLASMA	200	ul	30	4.05	16.24	157.55	142.47	8.38	for profit								
1642324	NACC766812	1	PLASMA	200	ul	34	2.01	4.93	34.42	101.84	4.53	for profit								
1642411	NACC233416	2	PLASMA	200	ul	22	2.15	6.75	78.13	119.18	6.53	for profit								
1642433	NACC033811	11	PLASMA	200	ul	32	4.77	16.8	102.76	109	4.76	for profit								
1642455	NACC034203	12	PLASMA	200	ul	33	4.95	21.63	125.06	124.91	3.11	for profit								
1642466.1	NACC441348	1	PLASMA	200	ul	48	8.45	11.74	83.76	52.95	3.63	for profit								
1642466.2	NACC441348	3	PLASMA	200	ul	48						for profit								
1642477	NACC786258	9	PLASMA	200	ul	33	5.63	36.3	155.66	133.38	6.6	for profit								
1642502	NACC904489	12	PLASMA	200	ul	26	9.63	15.58	116.25	142.15	7.8	for profit								
1642524	NACC601467	8	PLASMA	200	ul	20	2.12	21.92	354.75	87.89	5.33	for profit								
1642556	NACC663999	3	PLASMA	200	ul	32	6.78	25.11	273.33	139.03	8.56	for profit								
1642578	NACC351989	11	PLASMA	200	ul	32	2.91	17.52	145.8	128.89	8.4	for profit								
1642600	NACC025345	1	PLASMA	200	ul	37	3.6	19.35	200.43	93.01	3.14	for profit								
1642611	NACC547553	13	PLASMA	200	ul	28	3.89	30.85	213.89	152.58	7.68	for profit								

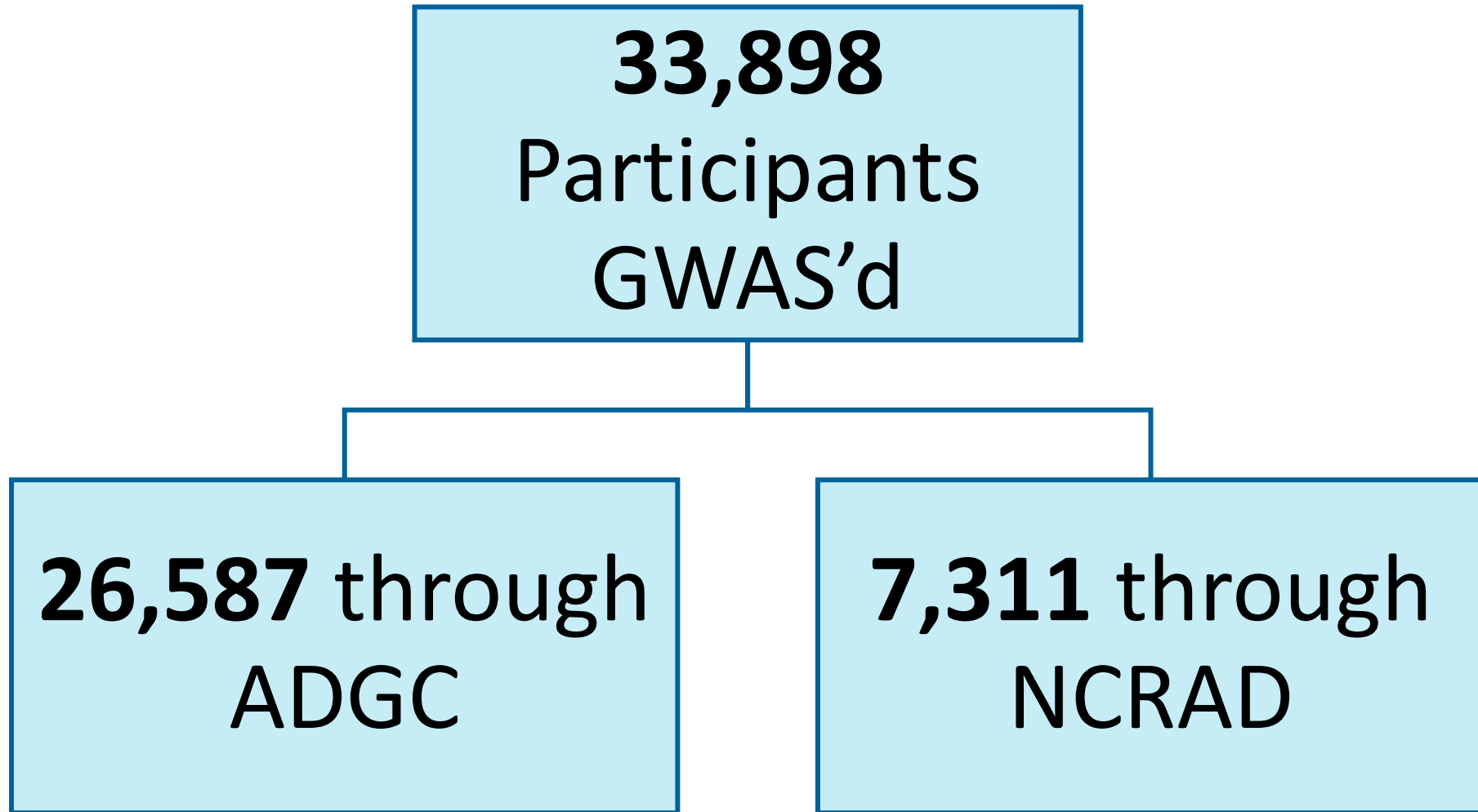
Two versions of catalog:

- One allows for profit and not for profit users
- Other allows not for profit users only based on GDS forms

ADRC Plasma Survey Results

- ADRC Plasma Survey sent out early 2024 to assess interest in sharing plasma collected outside the ADCFB initiative with NCRAD
 - Strong interest from many ADRCs
 - Available samples exceeded NCRAD-funded BAL capacity
- NCRAD discussed survey responses with NIA for guidance
 - Priority to samples with broadest sample sharing (i.e., GDS)
 - Anticipate running 1 sample per participant
- ADCFB plasma samples are the priority for the BAL
 - Plasma collected through ADCFB initiative have assays run automatically!

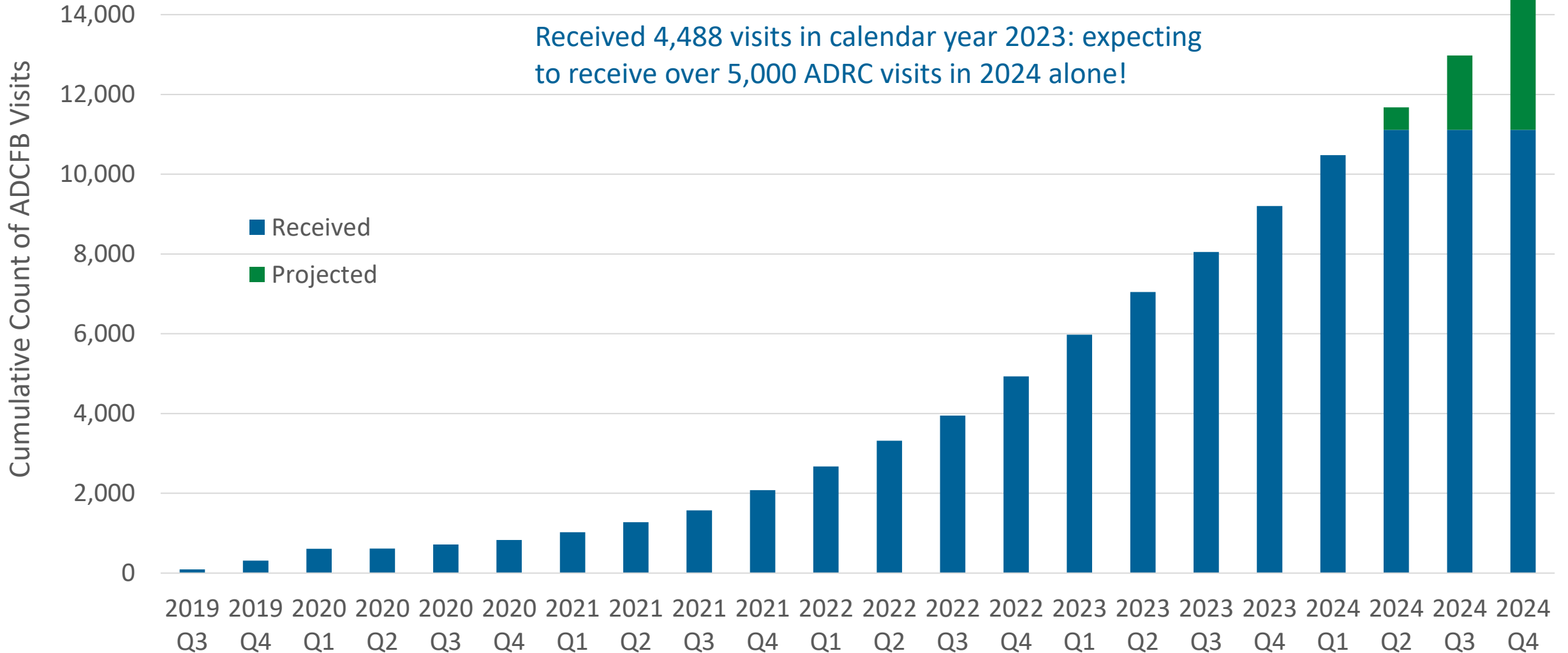
ADRC GWAS Update



ADRC GWAS Data Update

- NCRAD has historically sent 1-2 **annual** shipments of DNA to CHOP for GWAS
 - Going forward, NCRAD will send samples to CHOP **quarterly** for more rapid data returns
- NACC, NCRAD, ADGC, and NIAGADS have been working to streamline the return of genetic data (GWAS and WGS) to the ADRCs

ADCFB Projections



By Q4 2024, NCRAD is projected to have plasma from ***over 14,000 ADRC visits!***

Count of Unique ADRC Participants with non-DNA Sample Type by Site^{1,2}

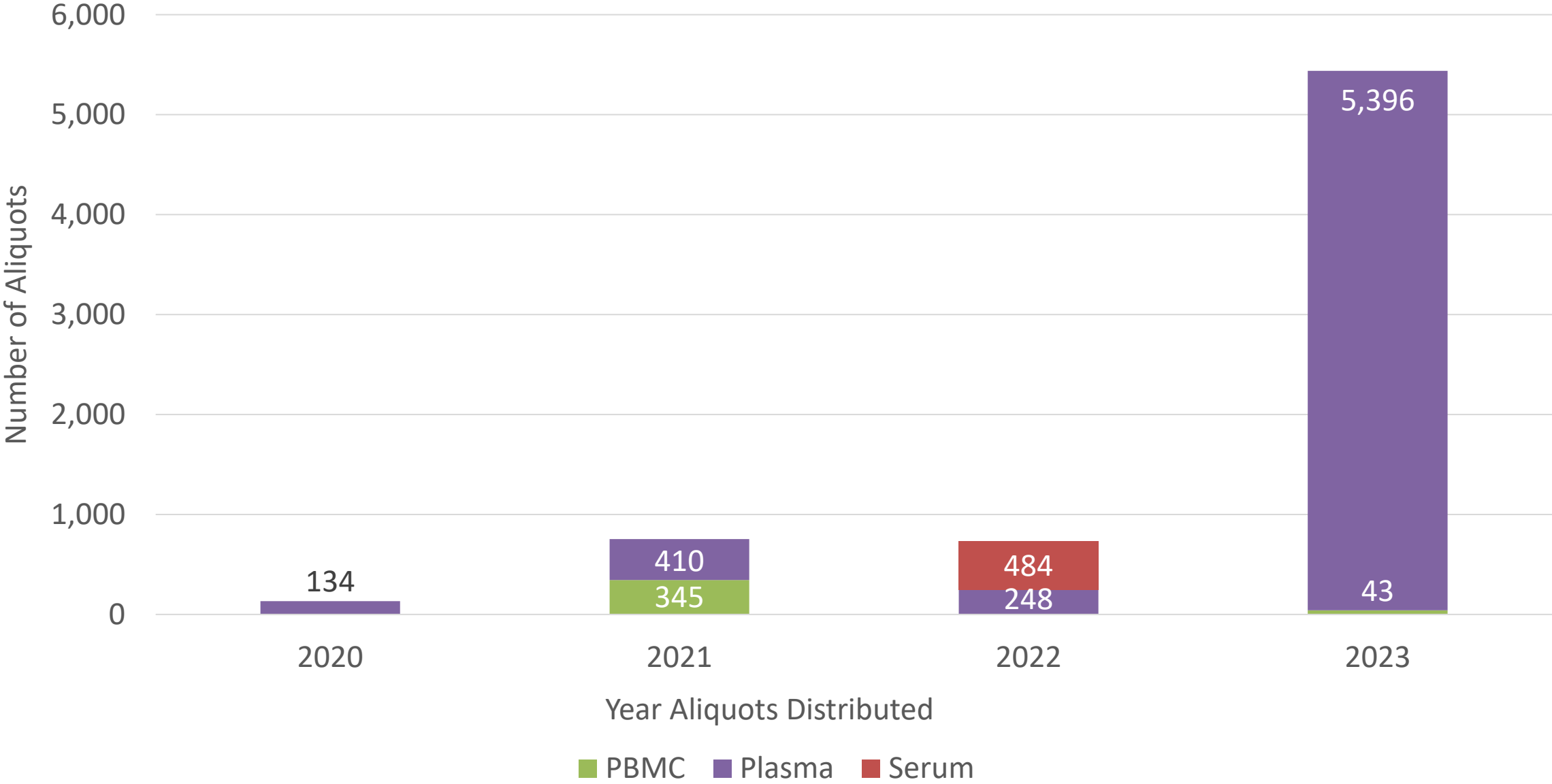
¹Sample receipt through 4/26/24;

²Unless otherwise noted, samples are collected using the ADCFB protocol;

³A portion of these participants had samples collected outside of the ADCFB protocol

Study Site	CSF	PBMC	PLASMA	RNA	SERUM
Alabama	0	133	126	0	0
Arizona	80	164	1,018	168	173
Boston	0	349	309	75	76
Duke/UNC	91	0	196	0	0
Emory	0	0	128	0	0
Indiana	0	115	462	0	0
Kansas ³	0	0	459	0	0
Mass Gen	0	23	211	0	0
Mayo ³	0	68	214	0	0
Michigan	0	44	39	21	26
Nevada	0	0	112	0	0
New Mexico	0	0	72	0	0
New York	14	91	519	0	0
Oregon	0	169	166	41	41
Pittsburgh	0	44	585	59	60
Rush	0	0	71	0	0
South Texas ³	8	0	469	0	0
UC Irvine ³	0	112	39	0	0
UCSD	0	0	420	0	0
UCSF ³	0	792	444	0	0
USC ³	0	154	318	0	0
UTSW	0	47	76	47	48
Vanderbilt	11	189	183	0	0
Wake Forest ³	0	4	895	3	4
Wash U	0	0	50	0	0
Washington ³	0	0	177	0	0
Wisconsin	0	37	495	38	39
Yale	35	23	394	25	25
Totals	239	2,558	8,647	477	492

Non-DNA ADRC NCRAD Distributions



Questions...



Kristen Russ, PhD
NCRAD Biomarker
Assay Laboratory
Director
karuss@iu.edu

NCRAD website:
ncrad.org



Kaci Lacy
NCRAD
Project
Manager
lacy@iu.edu