



Scripps Health/Scripps Clinic Biorepository and Bioinformatics Core Monthly Report

1/2026

Specimen Collection

Total Aliquots: **65,914 (in physical inventory)**

Aliquots added in January: **103**

Total Samples: **26,930 (in physical inventory)**

Samples added in January: **446**

Specimens (aliquots) Released for Research in January: **0**

Total Specimens Released for Research: **12,763**

New Contributing Sources: **0**

Total Contributing MD Sources/locations: **25**

Participants

BR Consented: **3,373**

New Consents in January: **11**

Non-Consented Contributors (inherited studies/remnant specimens): **11,962**

Normal Samples

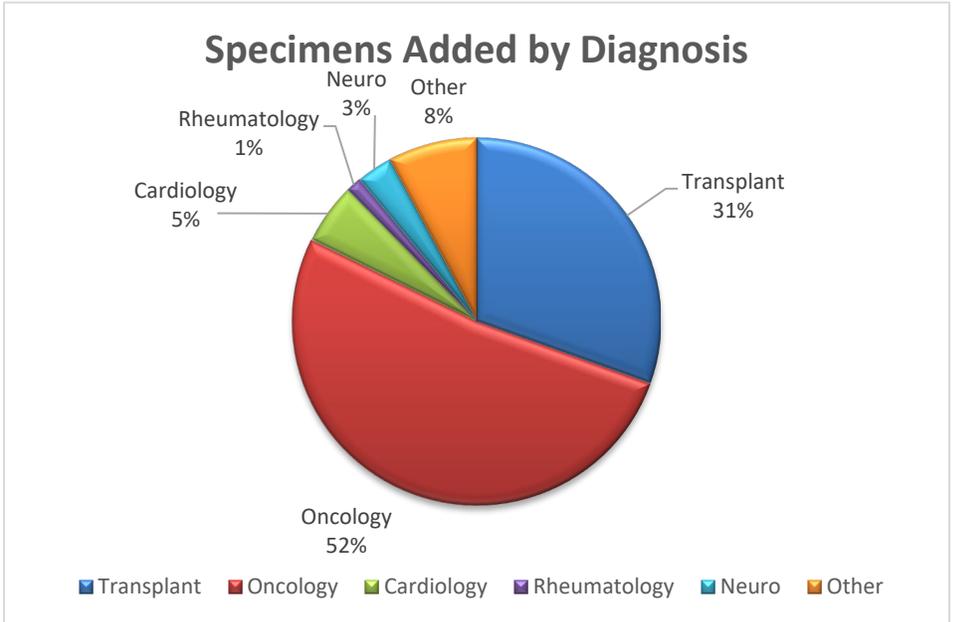
Apparently Healthy Donors (Consented): **170**

Participants added in January: **0**

Primary Diagnosis Breakdown

Specimens added to Inventory

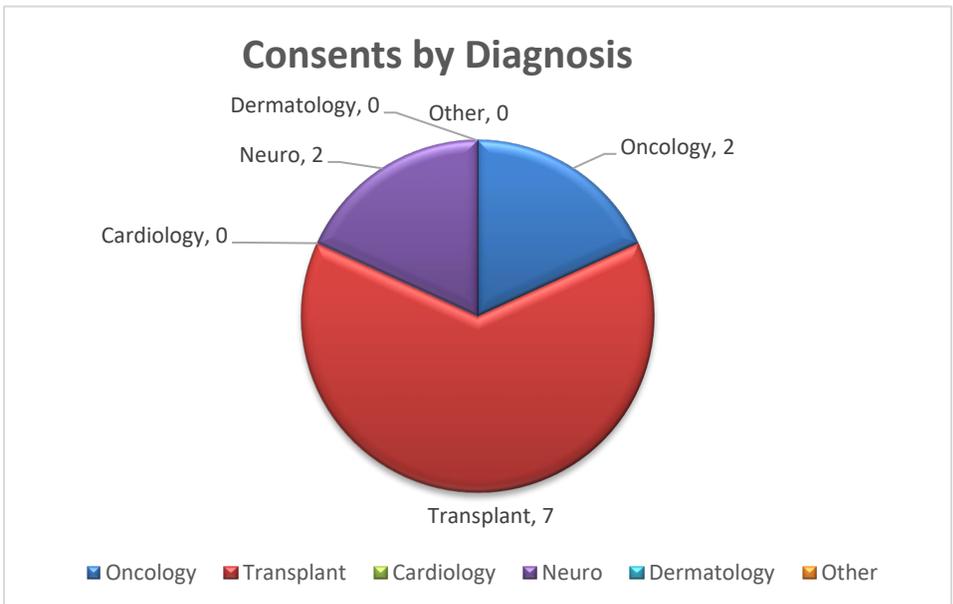
Transplant: 136
Hematology/Oncology: 231
Cardiology: 24
Rheumatology: 6
Neuro: 14
Other: 35



New Consents:

By Diagnosis

Oncology: 2
Transplant: 7
Cardiology: 0
Neuro: 2
Dermatology: 0
Other: 0



Bio-Specimen Requests

Pending Requests: 0

Requests Approved by the Oversight Committee in January: 0

Potential requests:

- Dr. Uma Sriram – Role of extracellular vesicles in systemic and neuropsychiatric lupus. Both plasma and serum samples have been requested from patients with SLE, RA and healthy controls to study if plasma derived EVs induce neuroinflammation and change neuropsychiatric behavior in mice. MTA & DUA are already fully executed.

Recent Publications from SCBBC Staff & Investigators Utilizing the SCBBC (2024-2025 FY)

1. Hawkes AA, Kasimsetty SG, Li H, Morris GP, **Kurian SM**, Almeida S, DeWolf SE, McKay DB. Simultaneous NOD1 and NOD2 Deletion in Hematopoietic Stem and Progenitor cells Promotes Long-Term Donor Chimerism. *Transplant Cell Ther.* 2026 Feb 2;. doi: 10.1016/j.jtct.2026.01.031. [Epub ahead of print] PubMed PMID: 41638572.
2. Bhagar R, Gill SS, Le-Niculescu H, Yin C, Roseberry K, Mullen J, Schmitz M, Paul E, Cooke J, Tracy C, Tracy Z, Gettelfinger AS, Battles D, Yard M, Sandusky G, Shekhar A, **Kurian SM**, Bogdan P, Niculescu AB. Next-generation precision medicine for suicidality prevention. *Transl Psychiatry.* 2024 Sep 6;14(1):362. doi: 10.1038/s41398-024-03071-y.
3. Stephanie Almeida, William Snyder, Mita Shah, **Jonathan Fisher, Christopher Marsh**, Alana Hawkes, Diana Gorial, Sean DeWolf, **Dianne B. McKay**. Revolutionizing Deceased Donor Transplantation: How New Approaches to Machine Perfusion Broadens the Horizon for Organ Donation. *Transplantation Reports.* 2024.100160. ISSN2451-9596.<https://doi.org/10.1016/j.tpr.2024.10016>.
4. DeWolf SE, Hawkes AA, **Kurian SM**, Gorial DE, Hepokoski ML, Almeida SS, Posner IR, McKay DB. Human pulmonary microvascular endothelial cells respond to DAMPs from injured renal tubular cells. *Pulm Circ.* 2024 Jul;14(3):e12379. doi: 10.1002/pul2.12379. eCollection 2024 Jul. PubMed PMID: 38962184; PubMed Central PMCID: PMC11220341.
5. **S. Kurian**, J. Fleming, B. Barrick, **A. Martin, C. M. Marsh**. Diagnostic Performance of Peripheral Blood Gene Expression At 2 Months Post-transplant And Interim Correlation of Tests with Renal Function Over 2 Years. Abstract accepted as late breaking poster at the American Transplant Congress, Philadelphia, USA: June 1 – 5 2024.
6. **S. Kurian, A. Martin, E. Burgess, C. Marsh**. Serial Metagenomic Profiling Reveals Temporal Shifts in Microbial Composition in Kidney and Liver Transplant Recipients. Abstract accepted a poster at the American Transplant Congress, Philadelphia, USA: June 1 – 5 2024.
7. Hill MD, Gill SS, Le-Niculescu H, MacKie O, Bhagar R, Roseberry K, Murray OK, Dainton HD, Wolf SK, Shekhar A, **Kurian SM**, Niculescu AB. Precision medicine for psychotic disorders: objective assessment, risk prediction, and pharmacogenomics. **Mol Psychiatry.** 2024 Feb 8. doi: 10.1038/s41380-024-02433-8. Epub ahead of print. PMID: 38326562.
8. New J, Cham J, Smith L, Puglisi L, Huynh T, **Kurian S**, Bagsic S, Fielding R, Hong L, Reddy P, Eum KS, **Martin A, Barrick B, Marsh C**, Quigley M, Nicholson LJ, Pandey AC. Effects of antineoplastic and immunomodulating agents on postvaccination SARS-CoV-2 breakthrough infections, antibody response, and serological cytokine profile. **J Immunother Cancer.** 2024 Jan 31;12(1): e008233. doi: 10.1136/jitc-2023-008233. PMID: 38296596; PMCID: PMC10831464.

Active/in Startup Studies currently supported by the Biorepository.

Research Projects - Ongoing		Lead/BR Staff	Project Type	Mechanism	Funding	Study Description
1	Genzyme Proteomics Study	Kurian, Marsh	Study	Pilot Award	Scripps RIC	Proteomic profiling of post-transplant kidney patients to look at inflammatory responses
3	ARIMA Genomics cfDNA	Kurian, Marsh	Study	Pilot Award	SCMG	Profiling the promoter landscape of the genome in kidney transplant patients
4	LOMR Molecular Studies	Marsh, Deising, Kurian	Study	Pilot Award	Scripps RIC	Developing a clinical and molecular predictor of liver transplant outcomes
5	Metagenomic early post-transplant clinical outcomes in kidney transplant recipients	Kurian, Martin	Study/Research Coordinator	Pilot Award	Scripps RIC	Looking at the responses in post-transplant microbiome profiles in the tissue urine and stool
6	KW Biomarker Project	Kurian, Marsh	Study	KW Award Subcontract	Kruger-Wyeth Settlement	Creating new molecular predictors of breast cancer using genomic and proteomic profiling
7	KW REFRESH Study	Kurian, Martin	Study	KW Award Subcontract	Kruger-Wyeth Settlement	Evaluate cognitive decline and dementia indicators in women
8	KW AM-WELL Project	Kurian, Martin	Study, Phlebotomy, Processing, Storage	KW Award Subcontract	Kruger-Wyeth Settlement	Creating care across the continuum of a patient's cancer journey by implementing a Breast Cancer Survivorship Program
9	ALTA TIPS	Deising, Martin	Research Coordinator	Academic Study	Univ of Michigan	Assess contemporary patterns of use of TIPS stents and associated patient related outcomes
10	Cardiac Amyloidosis Cohort	Mohan, BR Staff	Sample Collection	-	-	Cardiac Amyloid disease study of risk factors and molecular correlates
11	aiGENE	Kurian, Martin, Burgess	Study, Research Coordinator	Sponsor	aiGene - Industry	Measure the effectiveness of any cancer therapy. The technology is based on cfDNA and ctDNA binding properties.
12	DREAM BMT	Martin, Kurian	Study	Pilot Award	SCMG	Enhance the diagnosis, management, and overall care of patients undergoing allogeneic hematopoietic stem cell transplant (alloHSCT) who are at risk of

						developing Graft-versus-Host Disease (GVHD).
13	Retro-ART	Martin, Kurian	Study, Pathology Requests, Research Coordinator	Sponsor	Castle Biosciences, Inc. - Industry	To determine the efficacy of adjuvant radiation therapy (ART) in a population of subjects tested with the DecisionDx-SCC test
14	OCS Liver Perfusion Registry (OLP-II)	Martin, Kurian	Study, Research Coordinator	Sponsor	Transmedics - Industry	collect short and long-term post-transplant clinical outcomes data of donor livers preserved and assessed on OCS Liver system and to document performance of the OCS Liver device in the real-world setting
15	FETOLY Heart Study	Kurian	IRB Support	Sponsor	Diagnoly Inc	To evaluate the performance of Fetoly-Heart in automatically detecting and localizing standard fetal heart quality criteria.
16	PrRLS	Martin, Kurian	Phlebotomy, Processing, Storage		Dr. Karen Lei	
17	Dvsyr Study	Marsh, Martin, Kurian	Study, Research Coordinator, Phlebotomy	Sponsor	Dvsyr	A Multi-center, prospective blood collection study in a kidney transplant population

Notes:

- We have received more requests for various oncology samples from ImmunAI, a company focused on single-cell sequencing. We worked with our Pathology PAs to provide potential FFPE blocks for purchase. Additionally, they asked to feature the Scripps logo at an industry show while presenting their work; this request has been approved by Scripps HR.
- We are also working with a local San Diego CRO called GlintLab, which specializes in pathology and specimen procurement. They have requested various types of healthy tissues as well as diseased samples, primarily in the field of oncology. All the necessary paperwork has been sent to them to initiate the process.
- We are in the process of hiring for a part-time position, funded by KW funds, to help us increase our consenting capacity and assist with clinical data entry.
- We had a productive meeting with the SDSU HealthLINK Center for Transdisciplinary Health. Their center research manager expressed interest in procuring samples for their investigators. They also offer various services on their website, ranging from clinical research support to wet lab services, such as RNA and DNA extraction.
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- We had a pre-site qualification meeting with IMDX, a clinical diagnostics company in the transplant space. They are interested in conducting a large registry study with us to procure cell-free DNA tubes from transplant patients, potentially as part of a two-year study.
- We successfully qualified for and have enrolled in another large transplant registry study with Dvysr, a division of Thermo Fisher. This is also a cell-free DNA study involving kidney transplant recipients.