



# Scripps Health/Scripps Clinic Biorepository and Bioinformatics Core Monthly Report

6/2024

## ***Specimen Collection***

Total Aliquots: **53,363 (in physical inventory)**

Aliquots added in June: **911**

Total Samples: **23,472 (in physical inventory)**

Samples added in June: **213**

Specimens (aliquots) Released for Research in June: **66**

Total Specimens Released for Research: **9,949**

New Contributing Sources: **0**

Total Contributing MD Sources/locations: **24**

## ***Participants***

BR Consented: **2,970**

New Consents in June: **40**

Non-Consented Contributors (inherited studies/remnant specimens): **9,982**

## ***Remnant Samples***

COVID-19: **2,065**

FLU A: **1,227**

FLU B: **22**

RSV: **19**

Normals: **463**

Others: **15**

## Normal Samples

Apparently Healthy Donors (Consented): **163**

Participants added in June: **0**

## Primary Diagnosis Breakdown

### Specimens added to Inventory

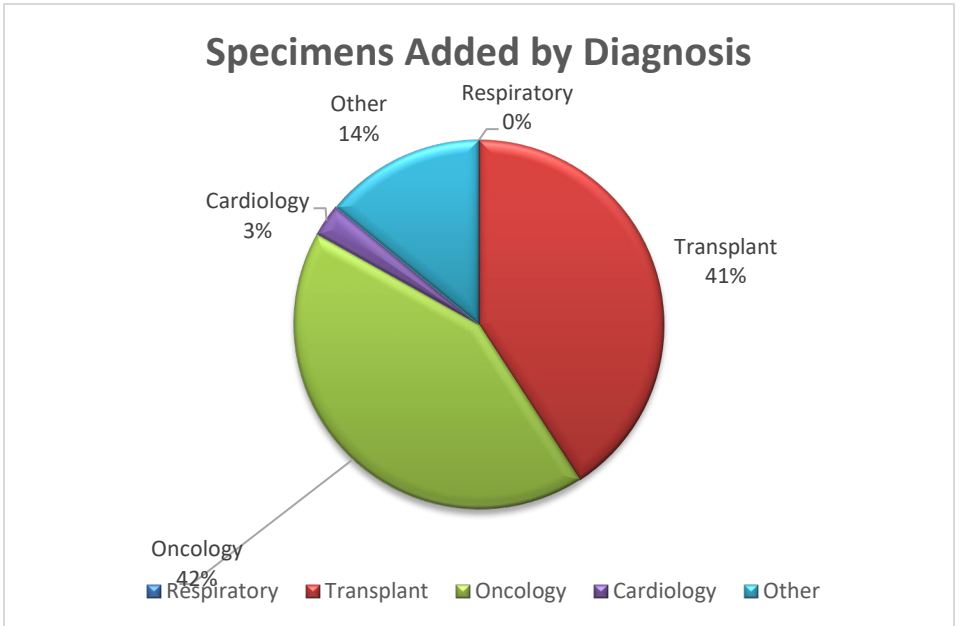
Respiratory: **0**

Transplant: **372**

Oncology: **385**

Cardiology: **26**

Other: **128**



### New Consents:

*By Diagnosis*

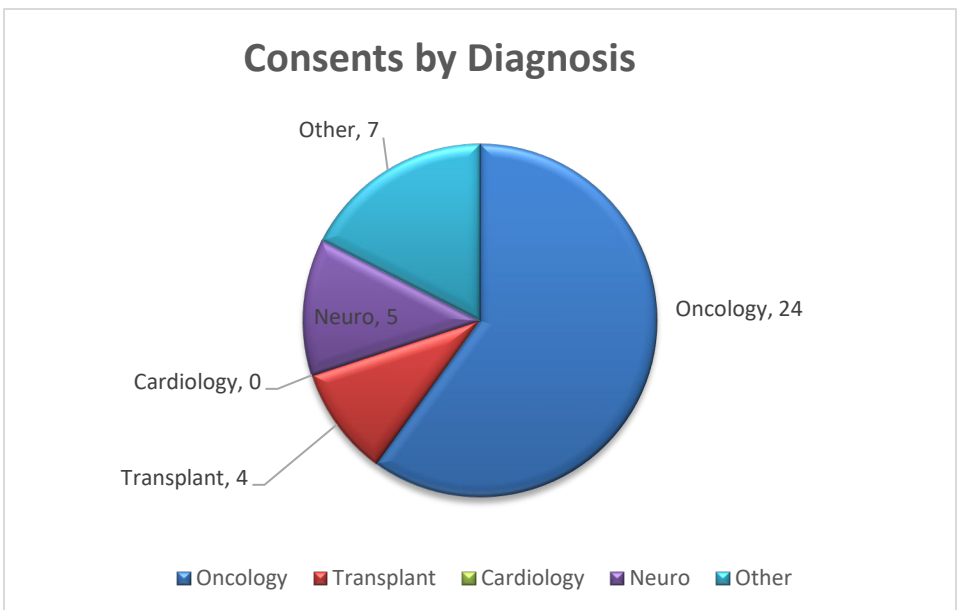
Oncology: **24**

Transplant: **4**

Cardiology: **0**

Neuro: **5**

Other: **7**



## Bio-Specimen Requests

Pending Requests: 3

Requests Approved by the Oversight Committee in June: 1

Recently Approved Requests:

- **Faith Barnett (Resolute Biosciences):** Resolute is conducting research to identify tumor types and subtypes responsive to its therapeutics by performing immunohistochemistry on BR supplied tissues. This will assess receptor expression levels, selecting tumor types for further in vivo efficacy studies.

### Recent Publications from SCBBC Staff & Investigators Utilizing the SCBBC (2023-2024 FY)

1. 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.
2. **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.
3. **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.
4. 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.
5. 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.
6. Long JJ, Motter JD, Jackson KR, Chen J, Orandi BJ, Montgomery RA, Stegall MD, Jordan SC, Benedetti E, Dunn TB, Ratner LE, Kapur S, Pelletier RP, Roberts JP, Melcher ML, Singh P, Sudan DL, Posner MP, El-Amm JM, Shapiro R, Cooper M, Verbese JE, Lipkowitz GS, Rees MA, **Marsh CL**, Sankari BR, Gerber DA, Wellen JR, Bozorgzadeh A, Gaber AO, Heher EC, Weng FL, Djarnali A, Helderma JH, Concepcion BP, Brayman KL, Oberholzer J, Kozlowski T, Covarrubias K, Massie AB, McAdams-DeMarco MA, Segev DL, Garonzik-Wang JM. Characterizing the risk of human leukocyte antigen-incompatible living donor kidney transplantation in older recipients. **Am J Transplant.** 2023 Sep 23: S1600-6135(23)00698-6. doi: 10.1016/j.ajt.2023.09.010. Epub ahead of print. PMID: 37748554.
7. Long JJ, Nijhar K, Jenkins RT, Yassine A, Motter JD, Jackson KR, Jerman S, Besharati S, Anders RA, Dunn TB, **Marsh CL**, Rayapati D, Lee DD, Barth RN, Woodside KJ, Philosophe B. Digital imaging software versus the "eyeball" method in quantifying steatosis in a liver biopsy. **Liver Transpl.** 2023 Mar 1;29(3):268-278. doi: 10.1097/LVT.000000000000064. Epub 2023 Jan 19. PMID: 36651194.
8. Towards precision medicine for anxiety disorders: objective assessment, risk prediction, pharmacogenomics, and repurposed drugs. Roseberry K, Le-Niculescu H, Levey DF, Bhagar R, Soe K, Rogers J, Palkowitz S, Pina N, Anastasiadis WA, Gill SS, **Kurian SM**, Shekhar A, Niculescu AB. **Mol Psychiatry.** 2023 Mar 7. doi: 10.1038/s41380-023-01998-0.