Fred Hutch Cancer Center

About Me

- **College/Program**: Bellevue College / Molecular biosciences (MBS)
- Favorite Classes: Microbiology and organic chemistry
- **Career Interests:** Still somewhat undecided, though I am thinking of doing something involving medical research.
- Hobbies/fun activities: Spending time with friends/family, reading, playing video games, and going hiking.
- Motivation for applying to the program: | applied for the Lablaunch program mostly to gain hands-on experience in a professional lab setting before graduating from Bellevue College next spring.

Overview of the lab

- Total number of staff in the CRSP: The CRSP consists of 10 staff members.
- Lab Director: The CRSP Lab Director is Daniel Schullery.
- **Responsibilities of Lab Technicians:** Process clinical research specimens following the given protocol for the study and fill out corresponding paperwork. Store or ship the specimens as determined by the study.



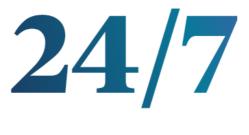
We've partnered in more than 500 clinical trials at Fred Hutch alone.



We bring our deep collective experience into our collaboration with you.

Clinical Research Specimen Processing (CRSP) Experience

Marisa Kuga



monitoring

Our biorepositories are in controlled, continuously monitored facilities.

- clinical research specimens.
- tears, saliva, urine, and stool.
- Serum alliquoting.
- aliquots of a sample to make.



Lab connection to the mission

The work done in the CRSP lab contributes toward the mission by processing samples that are part of clinical research studies that are working towards the development of new treatments that can save lives from cancer and other related diseases.

References

Quek, Hazel & Cuní-López, Carla & Stewart, Romal & Lim, Yi Chieh & Roberts, Tara & White, Anthony. (2022). A robust approach to differentiate human monocyte-derived microglia from peripheral blood mononuclear cells. STAR Protocols. 3. 101747. 10.1016/j.xpro.2022.101747.

Services provided: Sample processing, distribution (shipping), and storage of

Types of samples: The CRSP lab works with different types of human samples including blood, bone marrow aspirate,

Examples of tests, protocols, or assays performed: PBMCs (Peripheral Blood Mononuclear Cells), Plasma and/or

Data generated: Cell counting using the Guava easycyte flow cytometer. This helps to determine how many PBMC

My summer experience

My responsibilities over the summer internship included the following tasks:

- Media, etc.)
- Cell counting
- term storage)
- each sample)

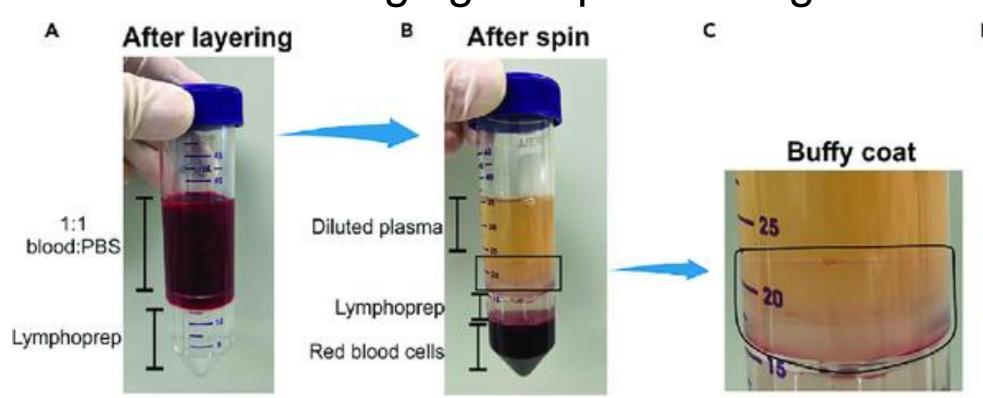


Figure 1: Quek, Hazel & Cuní-López et al. (2022)

Highlights and takeaway

What I enjoyed most about this summer internship experience was gaining a new set of hands-on lab skills that I didn't have prior to being part of this program. I found it interesting to see the process of how samples are received and processed in a real-world lab compared to what we learned in classes. I am hopeful that the new skills acquired during this internship will be of great use in my future career endeavors.

Acknowledgements

Daniel Schullery, Henry Donahue, Ivan Torres Rios, John Milodragovich, Trent Johnson, Rick Sanders, and Lenor Busuego. A big thank you again to the individuals listed above for providing guidance and welcoming me as a member of their team.

Also, a thank you to Mary Grace Katusiime and Jeanne Chowning for the creation of the Lablaunch program and mentorship during the program.

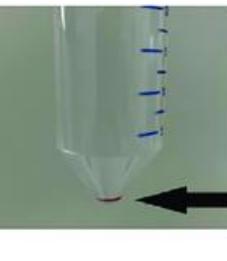
Restocking reagents (PBS, Ficoll, Freeze

Processing of samples (PBMCs)

Transferring of samples from -80 to LN2 (long

Filling out RSST's (paperwork associated with

Cataloging samples for a given study into excel



PBMC cell pellet