

Shared Resources Quick Reference List January 2017

Resource Name	Services	Contact, Phone, Email
Antibody Development	<ul style="list-style-type: none"> Hybridoma Cell Line Production and Optimization Monoclonal Antibody Development 	Ben Hoffstrom, PhD 206-667-6612 bhoffstr@fredhutch.org
Arnold Library	<ul style="list-style-type: none"> Ask a Librarian Journal Article Open Access Analysis Interlibrary Loan Online Databases and Journals PubMed Central Deposit Assistance 	206-667-4314 library@fredhutch.org
Bioinformatics	<ul style="list-style-type: none"> Consulting and Training Genomics and Proteomics Data Analysis and Visualization Programming Support 	Jeff Delrow, PhD 206-667-2714 bioinformatics@fredhutch.org
Biologics Production Facility	<ul style="list-style-type: none"> Biologics Production (Research & cGMP Support) Product Quality Testing 	Ron Manger PhD 206-667-5838 rmanger@fredhutch.org
Biomarker Lab	<ul style="list-style-type: none"> Epidemiological & Clinical Studies Nutritional Biochemistry & Cancer Biomarkers 	Xiaoling Song 206-667-5866 Xsong2@fredhutch.org
CCEH - Core Center for Excellence in Hematology	<ul style="list-style-type: none"> Blood Cell Analysis Genotype Tracking/Cell & Molecular Reagents Hematopoietic Cell Processing & Repository 	Beverly Torok- Storb, PhD 206-667-4549 btorokst@fredhutch.org
Cell Processing Facility	<ul style="list-style-type: none"> Hematopoietic Cell Production Immuno-competent Cell Production 	Linda Wilson 206-667-2838 ldwilson@fredhutch.org
Cellular Bioenergetics	<ul style="list-style-type: none"> Monitor Bioenergetics State of Cells Seahorse XF24 Bioanalyzer 	David Hockenbery, M.D. 206-667-4611 dhockenb@fredhutch.org
Clinical Research Support	<ul style="list-style-type: none"> Biostatistical Expertise Clinical Informatics Study Management Regulatory Affairs Assistance 	Paul Martin, M.D. Kristi Stiffler 206-667-4520 CRScustomerservice@fredhutch.org
Clinical Vector Development	<ul style="list-style-type: none"> Clinical grade virus vectors HIV-1 derived lentivirus 	Hans-Peter Kiem, M.D. 206-667-4425 hkiem@fredhutch.org
Collaborative Data Services	<ul style="list-style-type: none"> Programming & Database Design Survey and Data Operations & Control Telephone Interviewing 	Catherine Duggin, PhD 206-667-2323 cduggan@fredhutch.org
Comparative Medicine	<ul style="list-style-type: none"> Animal Husbandry & Research Veterinary Services Animal Model Development & Breeding Colony Management Comparative Pathology Services 	Rajesh Uthamanthil, DVM, PhD 206-667-5313 ruthaman@fredhutch.org
Computer Graphics	<ul style="list-style-type: none"> Graphic Design & Posters Photography & Digital Imaging 	Deborah Anderson 206-667-4200 graphics@fredhutch.org
Electron Microscopy	<ul style="list-style-type: none"> Cryo-Ultramicrotomy and High Pressure Freezing Immunolectron Microscopy Scanning and Transmission Electron Microscopy 	Bobbie Schneider 206-667-4289 emsr@fredhutch.org
Epidemiology	<ul style="list-style-type: none"> Population based studies Cancer Surveillance System (CSS) 	Stephen Schwartz, PhD 206-667-4707 esr@fredhutch.org
Experimental Histopathology	<ul style="list-style-type: none"> Digital slide scanning and image analysis Histology & Special Stains Immunohistochemistry & Immunofluorescence Laser Capture Microdissection 	206-667-6166 exphisto@fredhutch.org
Flow Cytometry	<ul style="list-style-type: none"> Cell Analysis Cell Sorting CyTOF Mass Cytometer 	Andrew Berger 206-667-61955941 flowcytometry@fredhutch.org
Genomics	<ul style="list-style-type: none"> CE Sequencing Microarrays NanoString Technology NextGen Sequencing Quantitative RT-PCR 	Jeff Delrow, PhD 206-667-2714 genomics@fredhutch.org
Glassware	<ul style="list-style-type: none"> Biohazardous Waste Processing Glassware Processing Tissue Culture Media 	Karl Ross 206-667-5429 glassware@fredhutch.org
Immune Monitoring	<ul style="list-style-type: none"> Cellular Immunoassays & Molecular Assays Cytokine Analysis Immune Phenotyping MHC Tetramers 	Jianhong Cao, PhD 206-667-6455 jcao@fredhutch.org
Metabolomics	<ul style="list-style-type: none"> Global Aqueous Metabolite Profiling Global Lipidomics Metabolic Flux Analysis of central carbon and amino acid metabolisms Targeted Metabolite Profiling 	Dan Raftery, PhD 206-543-4505 draftery@uw.edu
Molecular Design and Therapeutics	<ul style="list-style-type: none"> Novel Biologics Protein Engineering and Expression 	Colin Correnti 206-667-4172 proteinsciences@fredhutch.org
Molecular Epidemiology	<ul style="list-style-type: none"> Genotyping and Gene expression (Tagman, Sequencing) CIMP, KRAS, BRAF, PIK3CA, MSI testing Nextgen Sample Prep, Sample QC, Sample Aliquoting Custom nucleic acid extraction Pilot/Feasibility studies 	Sushma Thomas 206-667-2548 MEL@fredhutch.org
Molecular Oncology	<ul style="list-style-type: none"> Clinical DNA assays Mutational Analysis 	Jill Harrell 206-667-2592 jthomps@fredhutch.org

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NWBioTrust	<ul style="list-style-type: none"> Annotated Research Biospecimens Biospecimen Acquisition & Distribution Virtual Biospecimen Discovery Database 	Sarah Bowell 206-221-6096 nwbt@uw.edu
Nutrition Assessment	<ul style="list-style-type: none"> Dietary Assessment Dietary Data Collection and Management 	Carolyn Ehret, MS, RD 206-667-4161 nasr@fredhutch.org
Prevention Center	<ul style="list-style-type: none"> Exercise Studies Feeding Studies Research Clinic 	Tara Ohrazda 206-667-4639 prevcent@fredhutch.org
Process Development	<ul style="list-style-type: none"> Process Development and Optimization for the Manufacture of Cell Therapy Products Technical Support for Existing Processes to Improve Quality and Efficiency 	Chris Garbe (interim) 206-667-7541 cgarbe@fredhutch.org
Proteomics	<ul style="list-style-type: none"> Mass Spectrometry Protein Identification/Characterization Quantitative Proteomics 	Phil Galken, PhD 206-667-1051 proteomics@fredhutch.org
Quality Assurance	<ul style="list-style-type: none"> Approval and Final Release of Immunotherapy Products for Clinical Trials GMP Quality System Oversight Review and Approval of all Procedures Related to GMP Manufacturing and Testing 	Stephanie Eaton 206-667-5060 seaton2@fredhutch.org
Quality Control	<ul style="list-style-type: none"> Determine the Acceptability of each Batch for Release GMP Quality Assessment of Materials Product Quality Testing; Laboratory Evaluation to Ensure Adherence to Product Specifications and Limits 	Chris Garbe 206-667-7541 cgarbe@fredhutch.org Lab: 206-667-7542
Research Freezers	<ul style="list-style-type: none"> Access and Allocation of Space in Shared Freezer Facility Freezer Best Practices Leased Freezer Storage Research Sample Storage 	Debbie Shiozaki 206-667-7520 freezers@fredhutch.org
Scientific Imaging	<ul style="list-style-type: none"> 3-D Microscopy (Confocal, Deconvolution and Two Photon) Fluorescence and Brightfield Microscopy Gel and Blot Imaging & Quantitative Image Analysis Live Cell and Time Lapse Imaging 	Julio Vazquez, PhD 206-667-4205 imaging@fredhutch.org
Specialized Pathology	<ul style="list-style-type: none"> Solid Tumor Pathology Review and Interpretation Tissue Microarray Construction & Imaging 	Elizabeth Donato 206-667-4501 edonato@fredhutch.org
Specimen Processing/Research Cell Bank	<ul style="list-style-type: none"> DNA Extraction Specimen Processing Biorepository Cell Banking and Cell Processing 	Jon Digel 206-667-4645 processing@fredhutch.org
Translational Bioimaging Center	<ul style="list-style-type: none"> Consultation for the Effective Use of Imaging for Specific Research Projects Small Animal MRI & Ultrasound Small Animal Optical Imaging Training and Education in Imaging Research 	Robert Miyaoka, PhD 206-543-2084 rmiyaoka@uw.edu Rajesh Uthamanthil, DVM, PhD 206-667-5313 ruthaman@fredhutch.org
Therapeutic Products Program	<ul style="list-style-type: none"> Alliance Management Biologics Cell Processing Process Development Quality Assurance Quality Control 	James Adams 206-667-6131 jbadams@fredhutch.org