Below is a list of Fred Hutchinson Cancer Research Center investigators arranged alphabetically by expertise; click on the name for an online researcher profile. For more information, to arrange an interview or obtain a photo, please contact the Fred Hutch media relations team at media@fredhutch.org or 206.667.2210.

**ACUTE LYMPHОBLASTIC LEUKEMIA, OR ALL** *(ALSO SEE LEUKEMIA)*

Stanley Riddell, M.D.
adaptive T-cell therapy
sriddell@fredhutch.org

Ann Woolfrey, M.D.
pediatric transplantation
awoolfre@fredhutch.org

**ACUTE MYELOID LEUKEMIA, OR AML** *(ALSO SEE LEUKEMIA)*

Frederick Appelbaum, M.D.
world expert in blood cancers, including AML
fappelba@fredhutch.org

Elihu “Eli” Estey, M.D.
research interests include clinical trials of AML and management of patients with the disease
eestey@seattlecca.org

Soheil Meshinchi, M.D., Ph.D.
targeted therapy for pediatric AML; biomarkers of disease outcome
smeshinc@fredhutch.org

Jerald “Jerry” Radich, M.D.
molecular diagnosis of remission as surrogate endpoint for clinical trials
jradich@fredhutch.org

Roland Walter, M.D., Ph.D.
studies the role of leukemia stem cells in causing and maintaining AML
rwalter@fredhutch.org

**ADDITION** *(ALSO SEE SMOKING CESSATION)*

Jonathan Bricker, Ph.D.
psychologist; research focus on acceptance and commitment therapy, or ACT, for smoking, obesity and other behaviors
jbricker@fredhutch.org

**AGING AND CANCER RISK**

Jason Bielas, Ph.D.
impact of nuclear and mitochondrial DNA mutations on cancer and age-related disease
jbielas@fredhutch.org

Peter Rabinovitch, M.D., Ph.D.
DNA damage and genomic instability in aging and cancer progression
peters@u.washington.edu

**ALCOHOL AND CANCER RISK**

Christopher Li, M.D., Ph.D.
breast cancer
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Polly Newcomb, Ph.D., M.P.H.
breast cancer
pnewcomb@fredhutch.org

Janet Stanford, Ph.D.
prostate cancer
jstanfor@fredhutch.org

**ALLOGENEIC STEM CELL TRANSPLANTATION** *(SEE BONE MARROW TRANSPLANTATION)*

**APOPTOSIS** *(PROGRAMMED CELL DEATH)*

David Hockenbery, M.D.
genetic and biochemical mechanisms
dhockenb@fredhutch.org

**ASPERGILLUS** *(SEE OPPORTUNISTIC INFECTIONS)*

**AUTOIMMUNE DISEASE** *(ALSO SEE RHEUMATOID ARTHRITIS)*

George Georges, M.D.
clinical trials of autologous stem cell transplantation for patients with autoimmune neurologic diseases
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AUTOLOGOUS STEM CELL TRANSPLANTATION
(SEE BONE MARROW TRANSPLANTATION)

BANKRUPTCY AND CANCER, AKA ‘FINANCIAL TOXICITY’ OF CANCER
(SEE ECONOMICS OF HEALTH CARE)

BARRETT’S ESOPHAGUS
(ALSO SEE ESOPHAGEAL CANCER)

Brian Reid, M.D., Ph.D.
lead investigator, Seattle Barrett’s Esophagus Research Program; genetics, environmental exposure
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Thomas Vaughan, M.D., Ph.D.
epidemiology
tvaughan@fredhutch.org

BIG DATA, AKA BIO-MEDICAL INFORMATICS

Paul Fearn, MBA
biomedical informatics lead at Hutch Integrated Data Repository and Archive, or HIDRA; linking clinical and genetic data to inform cancer treatment
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BIOETHICS
(ALSO SEE GENETIC COUNSELING)

Wylie Burke, M.D., Ph.D.
social, ethical and policy implications of genetic information, genetic testing
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BIO Markers FOR CANCER / EARLY DISEASE DETECTION

Michael Boeckh, M.D.
respiratory virus biomarker
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Gary Goodman, M.D.
lung cancer
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William Grady, M.D.
colorectal cancer
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Holly Janes, Ph.D.
focus on markers that predict treatment response
hjanes@fredhutch.org

Paul Lampe, Ph.D.
discovery of cancer biomarkers via proteomics
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Amanda “Mandy” Paulovich, M.D., Ph.D.
breast cancer
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Stephen Tapscott, M.D., Ph.D.
development of biomarker tests for facioscapulohumeral muscular dystrophy, or FSHD, the most common form of muscular dystrophy
stapscott@fredhutch.org

Nicole Urban, Sc.D.
ovarian cancer
nurban@fredhutch.org

BLOOD CANCERS
(SEE LEUKEMIA AND LYMPHOMA)

BONE MARROW TRANSPLANTATION, OR BMT

Frederick Appelbaum, M.D.
transplants, transplant clinical trials, history of BMT and the legacy of Fred Hutch mentor E. Donnell Thomas, M.D., the “father of bone marrow transplantation”
fappelba@fredhutch.org

James Olson, M.D., Ph.D.
pediatric neuro-oncologist; research includes improving imaging of cancer cells via Tumor Paint, a molecule derived from scorpion venom
jolson@fredhutch.org

BRAIN TUMORS

Eric Holland, M.D., Ph.D.
neurosurgeon and neuro-oncologist, research focus on glioma
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Kerryn Reding, Ph.D., M.P.H.
prevention
kreding@u.washington.edu

BREAST CANCER

Nora “Mary” Disis, M.D.
vaccine development
ndisis@u.washington.edu

Amanda Phipps, Ph.D.
impact of breast-feeding on risk of various subtypes of breast cancer
aphipps@fredhutch.org

Gary Goodman, M.D.
reducing toxicity of transplantation and controlling a common complication called graft-vs.- host disease, or GVHD
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Paul Martin, M.D.
director, Fred Hutch Long-Term Follow-Up Program
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Soheil Meshinchi, M.D., Ph.D.
targeted therapy for pediatric AML; biomarkers of disease outcome
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Brenda Sandmaier, M.D.
development of conditioning regimens with minimal toxicity
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Mohamed Sorrors, M.D.
impact of medical comorbidities on transplant outcomes
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Rainer Storb, M.D.
transplantation biology, mini transplants
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Cyrus Ghajar, Ph.D.
study of metastatic microenvironments
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Julie Gralow, M.D.
ocology, preventing bone metastases
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Kathleen “Kathi” Malone, Ph.D.
genetics
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Margaret Madeleine, M.P.H., Ph.D.
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Polly Newcomb, Ph.D.
prevention
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Peggy Porter, M.D.
molecular mechanisms and pathology
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Kerryn Reding, Ph.D., M.P.H.
prevention, reducing racial disparities
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BREAST-FEEDING AND BREAST CANCER PREVENTION

Amanda Phipps, Ph.D.
impact of breast-feeding on risk of various subtypes of breast cancer
aphipps@fredhutch.org
BREAST GLOBAL HEALTH

Benjamin Anderson, M.D., using evidence-based research to improve clinical outcomes in low- and middle-resource countries, chair of Breast Global Health Initiative banderso@fredhutch.org

BURKITT LYMPHOMA (SEE INFECTIOUS DISEASE-RELATED CANCERS)

CANCER AND BANKRUPTCY, AKA ‘FINANCIAL TOXICITY’ OF CANCER (SEE ECONOMICS OF HEALTH CARE)

CANCER AND DIVORCE

Marc Chamberlain, M.D., neuro-oncologist whose research revealed that a married man is six times more likely to separate from or divorce his wife after she’s diagnosed with cancer than a married woman in the same situation chambermc@seattlecca.org

CANCER AND THE ENVIRONMENT (SEE ENVIRONMENTAL / OCCUPATIONAL EXPOSURE AND CANCER RISK)

CANCER DISPARITIES (SEE MINORITIES AND CANCER)

CANCER DRUG DEVELOPMENT

Christopher Kemp, Ph.D., functional genetics / high-throughput screening of drug candidates cjkemp@fredhutch.org

James Olson, M.D., Ph.D., Project Violet “citizen science” drug-discovery initiative for incurable cancers and other diseases; development of Tumor Paint, a molecule derived from scorpion venom that lights up cancer cells so surgeons can better remove them jolson@fredhutch.org

Julian Simon, Ph.D., high-throughput, genome-wide strategies for identification of drug targets jsimon@fredhutch.org

CANCER IMMUNOTHERAPY (SEE IMMUNOTHERAPY FOR CANCER)

CANCER OVERDIAGNOSIS / OVERTREATMENT

Ruth Etzioni, Ph.D., statistical and computer modeling for policy development, with research focus on prostate cancer retzioni@fredhutch.org

Roman Gulati, research focus on prostate cancer rgulati@fredhutch.org

CANCER SCREENING

William Grady, M.D., biomarkers / screening, prevention, treatment of colorectal cancer wgrady@fredhutch.org

Constance "Connie" Lehman, M.D., Ph.D., methods of early detection in breast cancer lehman@seattlecca.org

David Madtes, M.D., early detection via low-dose CT lung cancer screening, lung cancer prevention dmadtes@fredhutch.org

Polly Newcomb, Ph.D., M.P.H., prevention, screening of colorectal cancer pnewcomb@fredhutch.org

Nicole Urban, Sc.D., promotion, surveillance and cost-effectiveness; focus on ovarian cancer nurban@fredhutch.org

CANCER SURVIVORSHIP

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Rachel Ceballos, Ph.D., developing and evaluating culturally appropriate cancer survivorship programs rceballo@fredhutch.org

Eric Chow, M.D., pediatric and adult BMT survivor issues ericchow@u.washington.edu

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Stephanie Lee, M.D., M.P.H., post-transplant survivorship and quality of life sjlee@fredhutch.org

Beth Mueller, Dr.P.H., reproductive outcomes in cancer survivors bmueller@fredhutch.org

Karen Syrjala, Ph.D., adult survivorship; co-director of Fred Hutch Survivorship Program ksyrjala@fredhutch.org

K. Scott Baker, M.D., pediatric survivorship; director of Fred Hutch Survivorship Program ksbaker@fredhutch.org

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Beth Mueller, Dr.P.H., reproductive outcomes in cancer survivors bmueller@fredhutch.org

Karen Syrjala, Ph.D., adult survivorship; co-director of Fred Hutch Survivorship Program ksyrjala@fredhutch.org

CANCER VACCINES

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Nora “Mary” Disis, M.D., breast cancer vaccines ndisis@u.washington.edu

CARDIOVASCULAR DISEASE

Alex Reiner, M.D., M.Sc., epidemiology, population biology and genomics apreiner@u.washington.edu

CERVICAL CANCER AND HPV (ALSO SEE INFECTIOUS DISEASE-RELATED CANCERS)

Denise Galloway, Ph.D., HPV research led to development of cervical cancer vaccine dgallowa@fredhutch.org

Margaret Madeleine, M.P.H., Ph.D., HPV immunogenetics mmadelei@fredhutch.org

CHRONIC LYMPHOCYTIC LEUKEMIA, OR CLL (ALSO SEE LEUKEMIA)

Jerald “Jerry” Radich, M.D., molecular diagnosis of remission as surrogate endpoint for clinical trials jradich@fredhutch.org

CHRONIC MYELOID LEUKEMIA, OR CML (ALSO SEE LEUKEMIA)

David Maloney, M.D., Ph.D., combining lower-intensity radiation conditioning with donated stem cells dmaloney@fredhutch.org

Stanley Riddell, M.D., CAR T-cell immunotherapy sriddell@fredhutch.org

fredhutch.org
CIRCADIAN DISRUPTION AND CANCER RISK [SEE SHIFT WORK AND CANCER RISK]

CLINICAL TRIAL DESIGN AND CONDUCT

Garnet Anderson, Ph.D. design, analysis and conduct of randomized trials via Women's Health Initiative garnet@whi.org

Frederick Appelbaum, M.D. bone-marrow transplant trials fappelba@fredhutch.org

Elizabeth Brown, Sc.D. microbial clinical trials erbrown@fredhutch.org

Deborah Donnell, Ph.D. HIV prevention trials deborah@scharp.org

Peter Gilbert, Ph.D. vaccine clinical trials pgilbert@fredhutch.org

Katherine Guthrie, Ph.D. design, conduct and analysis of clinical trials kguthrie@fredhutch.org

Lori Jarrett clinical trials management ljjarrett@fredhutch.org

John Thompson, M.D. Phase 1 cancer clinical trials jat@u.washington.edu

COLORECTAL CANCER

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Polly Newcomb, Ph.D., M.P.H. prevention, screening pnewcomb@fredhutch.org

COMPARATIVE-EFFECTIVENESS RESEARCH [SEE ECONOMICS OF HEALTH CARE]

Jesse Bloom, Ph.D. uses computers to understand and visualize evolutionary information, such as the evolution of proteins and viruses jbloom@fredhutch.org

Robert Bradley, Ph.D. focuses on understanding the process by which genes produce multiple, distinct proteins, known as alternative splicing rbradley@fredhutch.org

Harlan Robins, Ph.D. acting head, Computational Biology Program hrobins@fredhutch.org

CORD-BLOOD TRANSPLANTATION

Irwin Bernstein, M.D. pioneering work in cord blood transplantation ibernste@fredhutch.org

Colleen Delaney, M.D. director, Fred Hutch Cord Blood Transplant Program sdelaney@fredhutch.org

CROHN’S DISEASE

George McDonald, M.D. principal investigator, Crohn’s Allogeneic Transplant Study, or CATS gmcodon@fredhutch.org

CYTOMEGALOVIRUS [SEE OPPORTUNISTIC INFECTIONS]

DEATH WITH DIGNITY ACT

Elizabeth Loggers, M.D., Ph.D. led study of how Seattle Cancer Care Alliance implemented the state's Death with Dignity Act eloggers@seattlecca.org

DIET AND CANCER RISK [SEE IN UTRITION AND CANCER PREVENTION]

Jeannine McCune, Pharm.D. personalized dosing of medications in cancer patients, population pharmacokinetics, improving drug safety jmccune@fredhutch.org

ECONOMICS OF HEALTH CARE

Gary Lyman, M.D., M.P.H. medical oncologist and health economist, co-director of Hutchinson Institute for Cancer Outcomes Research, or HICOR glyman@fredhutch.org

Scott Ramsey, M.D., Ph.D. internist and health economist, co-director of HICOR sramsey@fredhutch.org

Joshua Roth, Ph.D. economic implications of low-dose CT screening for lung cancer, Women’s Health Initiative jroth@fredhutch.org

EDUCATION [SEE SCIENCE EDUCATION, OR STEM]

ENVIRONMENTAL/ OCCUPATIONAL EXPOSURE AND CANCER RISK [ALSO SEE RADIATION AND CANCER RISK]

Parveen Bhatti, Ph.D. biomarkers of environmental exposure, cancer risk and disease; focus on occupational or medical ionizing radiation pbhatti@fredhutch.org

Beth Mueller, Dr.P.H. reproductive outcomes, childhood cancers and autoimmune diseases bmuelle@fredhutch.org

Engelberta “Beti” Thompson, Ph.D. reducing pesticide exposure in farm workers bthompson@fredhutch.org

Thomas Vaughan, M.D., M.P.H. lung and upper-respiratory cancers tvauhhan@fredhutch.org

ESOPHAGEAL CANCER [ALSO SEE BARRETT’S ESOPHAGUS]

Brian Reid, M.D., Ph.D. genetics, environmental exposure bjr@fredhutch.org

Veena Shankaran, M.D. treatment vshank@u.washington.edu

Thomas Vaughan, Ph.D. epidemiology tvauhgan@fredhutch.org

EVOLUTION [ALSO SEE PALEOVIRIOLOGY]

Catherine “Katie” Peichel, Ph.D. genetic and molecular mechanisms of evolution in the threespine stickleback fish, a model used to study the development of complex traits such as body type and behavior cpeichel@fredhutch.org
EXERCISE AND CANCER PREVENTION (ALSO SEE OBESITY, METABOLISM AND CANCER RISK)

Anne McTiernan, M.D., Ph.D.
breast and colorectal cancer
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Marian Neuhouser, Ph.D., R.D.
physical activity in relation to energy balance, nutritional status and cancer risk
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Scott Ramsey, M.D., Ph.D.
internist and prevention expert who also happens to be an avid cyclist
sramsey@fredhutch.org

FLU (SEE OPPORTUNISTIC INFECTIONS)

GASTRIC CANCER (SEE STOMACH CANCER)

GENE THERAPY (SEE TARGETED GENE CORRECTION)

GENETIC COUNSELING

Wylie Burke, M.D., Ph.D.
implications and appropriate use of genetic information in clinical and public health practice
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GENOME-WIDE ASSOCIATION STUDIES, OR GWAS, OF COMMON, COMPLEX DISEASES

Kathleen “Kathi” Malone, Ph.D.
breast cancer
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Polly Newcomb, Ph.D., M.P.H.
colorectal cancer
pnewcomb@fredhutch.org

Ulrike “Riki” Peters, Ph.D., M.P.H.
genetic and molecular epidemiology of cancer, obesity, type 2 diabetes, heart disease; interactions between genetics and environmental risk factors such as diet, aspirin use
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prostate cancer
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GERIATRICS

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focus on older women’s health / healthy aging
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GLOBAL ONCOLOGY

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Steven Self, Ph.D.
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GRAFT-VS.-HOST DISEASE, OR GVHD (A COMPLICATION OF BONE MARROW TRANSPLANTATION)

Marie Bleakley, M.D., Ph.D.
reducing severity and occurrence of GVHD in children
mbleakle@fredhutch.org

Paul Carpenter, M.D.
focus on improving therapy for acute and chronic GVHD
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Mary Flowers, M.D.
managing chronic GVHD, including ocular GVHD
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George Georges, M.D.
reducing toxicity of transplantation and controlling GVHD
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HEAD AND NECK CANCERS

Eduardo “Eddie” Mendez, M.D.
molecular classification of tumors, robotic surgery
emendez@u.washington.edu

Cristina “Tina” Rodriguez, M.D.
squamous cell, salivary gland, thyroid cancers; multi-modality therapy
rodrigcr@seattlecca.org

HEALTH ECONOMICS (SEE ECONOMICS OF HEALTH CARE)

HIV/AIDS VACCINE DEVELOPMENT (VIA THE GLOBAL, FRED HUTCH-BASED HIV VACCINE TRIALS NETWORK, OR HVTN)*

*To reach these HIV/AIDS investigators, please contact Jim Maynard, HVTN director of communications, at jmaynard@fredhutch.org, 508.843.3069 [cell] or 206.667.6366 [desk].

Fred Hutch
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Nancy colleagues

Michele Andrasik, Ph.D.
sexual risk-taking, HIV prevention, health disparities
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Keith Jerome, M.D., Ph.D.
cell and gene therapy, aka “cure research”
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Hans-Peter Kiem, M.D.
cell and gene therapy, aka “cure research”
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transmission mechanisms, pathogenesis
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Harlan Robins, Ph.D.
adaptive immune response to HIV infection, high-throughput sequencing of T-cell repertoire
hrobins@fredhutch.org

Roland Strong, Ph.D.
using structural biology to elucidate immune system function
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Margaret “Julie” McElrath, M.D. Ph.D., [principal investigator, HVTN Laboratory Center jmcelrat@fredhutch.org]

HODGKIN LYMPHOMA (SEE LYMPHOMA)

HPV [SEE CERVICAL CANCER AND HPV]

H. PYLORI [HELMICOBACTER PYLORI] (SEE STOMACH CANCER)

IMMUNOBIOENGINEERING (USING BIOMATERIALS TO MODULATE IMMUNE FUNCTION)

Matthias Stephan, M.D., Ph.D.
developing ways to boost the body’s natural cancer-fighting ability with stimulatory biomaterial devices, drug-delivery systems and bioactive substances mstephan@fredhutch.org

IMMUNOTHERAPY (USING THE IMMUNE SYSTEM TO WIPE OUT CANCER)

Martin “Mac” Cheever, M.D.
immunotherapy clinical trials mcheever@fredhutch.org

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head of immunology at Fred Hutch; co-founder, Juno Therapeutics Inc. pgreenberg@fredhutch.org

Sylvia Lee, M.D.
medical oncologist, established tumor-infiltrating lymphocyte, or TIL, immunotherapy program smlee@fredhutch.org

David Maloney, M.D., Ph.D.
mobilizing immune system to fight blood cancers dmaloney@fredhutch.org

Stanley Riddell, M.D.
adoptive T-cell therapy; co-founder, Juno Therapeutics Inc. sriddell@fredhutch.org

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clinical trials of central-memory T cells cturtle@fredhutch.org

Edus Houston “Hootie” Warren, M.D., Ph.D.
molecular dissection of anti-tumor immune responses ewarren@fredhutch.org

Betz Halloran, M.D., M.P.H.
causal inference for infectious disease studies betz@fredhutch.org

Michael Boechk, M.D.
cytomegalovirus, respiratory virus biomarkers, diagnostics, treatment, prevention mboechk@fredhutch.org

David Fredricks, M.D.
clinical expertise includes treating infections in patients with cancer dfredric@fredhutch.org

Tomer Hertz, Ph.D.
co-evolution of viruses and immune system thertz@fredhutch.org

Steven Pergam, M.D., M.P.H.
cytomegalovirus, adenovirus, infection control, infections in solid-organ and bone marrow transplantation, hepatitis C, varicella zoster virus spergam@fredhutch.org

Robert Bradley, Ph.D.
studies the role of RNA in leukemias rbradley@fredhutch.org

JUNO THERAPEUTICS INC. (ALSO SEE IMMUNOTHERAPY)

Philip Greenberg, M.D.
head of immunology at Fred Hutch; co-founder, Juno Therapeutics Inc. pgreenberg@fredhutch.org

Stanley Riddell, M.D.
adoptive T-cell therapy researcher at Fred Hutch; co-founder, Juno Therapeutics Inc. sriddell@fredhutch.org

KAPOSI SARCOMA (SEE INFECTIOUS DISEASE-RELATED CANCERS)

LEUKEMIA

Frederick Appelbaum, M.D.
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Elihu “Eli” Estey, M.D.
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Ajay Gopal, M.D.
CLL akgopal@fredhutch.org

David Maloney, M.D., Ph.D.
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Jerald “Jerry” Radich, M.D.
AML, CML; molecular diagnosis of remission as surrogate endpoint for clinical trials jradich@fredhutch.org

LEUKEMIA

Frederick Appelbaum, M.D.
prevention and biomarkers; beta carotene and lung cancer risk in smokers ggoodman@fredhutch.org

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impact of tumor microenvironment on cancer growth, pulmonary nodule evaluation and early lung cancer detection houghton@fredhutch.org

Joshua Roth, Ph.D.
economic implications of low-dose CT screening, lung cancer prevention jroth@fredhutch.org

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occupational and environmental exposures, genetics tvaughan@fredhutch.org

LUNG CANCER

Gary Goodman, M.D.
prevention and biomarkers; beta carotene and lung cancer risk in smokers ggoodman@fredhutch.org

LUNG DISEASE

A. McGarry Houghton, M.D.
role of inflammation in lung disease houghton@fredhutch.org

LUNG DISEASE [COPD, EMPHYSEMA, PULMONARY INFECTIONS, PULMONARY FIBROSIS]
LYMPHOMA
Corey Casper, M.D.
Epstein Barr virus-associated lymphomas, Burkitt lymphoma
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Scott Davis, Ph.D.
causes of Hodgkin disease and other lymphomas
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Ajay Gopal, M.D.
treatment
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David Maloney, M.D., Ph.D.
helped pioneer targeted antibody therapy
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Oliver “Ollie” Press, M.D.
helped pioneer pretargeted radioimmunotherapy, T-cell therapy
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MALARIA
James Kublin, M.D., M.P.H.
malaria clinical trials / vaccines
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Barry Stoddard, Ph.D.
genetic modification of mosquitoes, structural biology
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MARIJUANA AND CANCER RISK
Stephen Schwartz, M.P.H., Ph.D.
epidemiologist who studies marijuana’s effects on testicular and oral cancer
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MELANOMA
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tumor-infiltrating lymphocyte, or TIL, immunotherapy
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Margaret Madeleine, M.P.H., Ph.D.
prevention
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John Thompson, M.D.
medical oncologist; developed new approaches to diagnosis and treatment
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Scott Tykodi, M.D., Ph.D.
immunotherapy
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METABOLIC RESEARCH [SEE OBESITY, METABOLISM AND CANCER RISK]

Merkel Cell Carcinoma (An Aggressive Skin Cancer That Is on the Rise)

Paul Nghiem, M.D.
cancer biologist, dermatologist; research focus on immunotherapy
pnghiem@u.washington.edu

MICROBIOME RESEARCH (HOW MICROBIAL COMMUNITIES IMPACT HUMAN HEALTH)

David Fredricks, M.D.
part of the Human Microbiome Project; studies bacterial vaginosis, a condition linked to increased risk of sexually transmitted diseases, preterm birth and pelvic inflammatory disease
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James Kublin, M.D., M.P.H.
microbiome modulation of immunity
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Sujatha Srinivasan, Ph.D.
ecology of human microbial communities, impact of bacterial interactions on health and disease, bacterial adaptive responses
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MICROCHIMERISM (MATERNAL-FETAL CELL SHARING)

V.K. Gadi, M.D., Ph.D.
cancer-fighting role of microchimerism
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J. Lee Nelson, M.D.
focus on how cell sharing impacts human health
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MINORITIES AND CANCER
Rachel Ceballos, Ph.D.
psychosocial factors on biobehavioral outcomes of chronic disease with focus on developing and evaluating culturally appropriate cancer survivorship programs
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differences in treatment and outcomes by race, ethnicity
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Caroline “Vicky” Taylor, M.D., M.P.H.
cancer control in Asian immigrant populations
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community approaches to smoking cessation, dietary change, screening
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MINORITIES AND HIV / AIDS
Michele Andrasik, Ph.D.
prevention in African-American and African-born populations
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clinical trials for myelodysplastic syndrome and myeloproliferative disorders
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NEUROBIOLOGY
Linda Buck, Ph.D.
Nobel Prize-winning work on the mechanisms of olfaction
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FRED HUTCH
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Jonathan Cooper, Ph.D.
how cells migrate in the developing brain
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Eric Holland, M.D., Ph.D.
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Cecilia Moens, Ph.D.
cellular mechanisms of brain development in the zebrafish
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James Olson, M.D., Ph.D.
pediatric neouro-ancologist who developed Tumor Paint, a molecule derived from scorpion venom that lights up cancer cells so surgeons can better remove them
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NON-HODGKIN LYMPHOMA (SEE LYMPHOMA)

NUTRITION AND CANCER PREVENTION (ALSO SEE OBESITY, METABOLISM AND CANCER RISK)

Alan Kristal, Ph.D.
dietary cancer risk factors, promoting healthful dietary behavior, focus on diet and prostate cancer
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Johanna Lampe, Ph.D.
how components of plant foods alter cancer risk
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Anne McTiernan, M.D., Ph.D.
focus on diet and breast / colorectal cancer prevention
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Marian Neuhaus, Ph.D., R.D.
nutritional epidemiology, diet and cancer risk
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OBESITY, METABOLISM AND CANCER RISK (ALSO SEE NUTRITION AND CANCER PREVENTION)

Mario Kratz, Ph.D.
studies link between diet, obesity, inflammation and obesity-related diseases
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Anne McTiernan, M.D., Ph.D.
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OCCUPATIONAL AND ENVIRONMENTAL CANCER RISK (SEE ENVIRONMENTAL / OCCUPATIONAL EXPOSURE AND CANCER RISK)

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OPPORTUNISTIC INFECTIONS (ALSO SEE INFECTIOUS DISEASE)

Jesse Bloom, Ph.D.
molecular evolution of viruses, particularly influenza
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fungal and respiratory viral infections, herpes virology
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Steven Pergam, M.D., M.P.H.
cytomegalovirus, adenovirus, infection control, infections in solid-organ and bone marrow transplantation, hepatitis C, varicella zoster virus
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ORAL CANCER

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genetics of oral squamous cell carcinoma and alcohol-related oral cancers
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ORAL CONTRACEPTIVES (SEE WOMEN’S REPRODUCTIVE HEALTH)

OVARIAN CANCER

M. Robyn Andersen, Ph.D.
symptom screening
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gynecological oncology, surgery, molecular diagnostics, tissue banking
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Mary Ann Rossing, Ph.D.
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Nicole Urban, Sc.D.
improvement of screening, biomarker discovery
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PALEOVIRIOLOGY (EVOLUTION OF GENES, VIRUSES AND PROTEINS) (ALSO SEE EVOLUTION)

Jesse Bloom, Ph.D.
evolutionary and computational biology
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Michael Emerman, Ph.D.
regulatory and structural HIV genes; molecular basis of HIV pathogenicity; evolution and function of intrinsic host defenses against retroviruses
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PRECISION, OR PERSONALIZED, MEDICINE FOR CANCER

Eric Holland, M.D., Ph.D.
genetic profiling of tumors to inform treatment
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focus on prostate cancer
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Jerald “Jerry” Radich, M.D.
genetic profiling of cancer to prevent relapse; focus on myeloid leukemia
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PROSTATE CANCER

Ruth Etzioni, Ph.D.
overdiagnosis, overtreatment
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PALLIATIVE CARE

Elizabeth Loggers, M.D., Ph.D.
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PANCREATIC CANCER

Sunil Hingorani, M.D., Ph.D.
research in mechanisms of treatment resistance led to breakthrough discovery for delivering chemotherapy to tumors that is now in human trials
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PHYSICAL ACTIVITY AND CANCER PREVENTION (SEE EXERCISE AND CANCER PREVENTION)

Harmit Malik, Ph.D.
the study of mobile genetic elements and viruses, with focus on retroviruses and host antiviral defenses against them
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dietary supplements
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Daniel Lin, M.D.
molecular mechanisms
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mechanisms of cancer progression
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molecular, cellular mechanisms of prostate cancer initiation and progression
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genetic and lifestyle risk factors, prevention
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PROTEOMICS
Paul Lampe, Ph.D.
discovery of cancer biomarkers via proteomics
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Amanda “Mandy” Paulovich, M.D., Ph.D.
focus on discovery of breast cancer biomarker proteins for early detection
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RHEUMATOID ARTHRITIS, OR RA
V.K. Gadi, M.D., Ph.D.
impact of maternal-fetal cell sharing on RA
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J. Lee Nelson, M.D.
rheumatology and autoimmune disease with focus on microchimerism, or impact of maternal-fetal cell sharing on RA
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SCIENCE EDUCATION, OR STEM
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Beverly Torok-Storb, Ph.D.
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SCLERODERMA
[SEE AUTOIMMUNE DISEASE]

SENSE OF SMELL
[SEE Olfactory System]

SHIFl WORK AND CANCER RISK
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circadian disruption, exposure to light at night and cancer risk
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SICKLE CELL DISEASE
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Barry Stoddard, Ph.D.
a structural biologist who studies the structure and function of molecules to design targeted gene correction for diseases such as sickle cell anemia
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SKIN CANCER
[SEE MELANOMA AND MERKEL CELL CARCINOMA]

SMOKING CESSATION
Jonathan Bricker, Ph.D.
e-cigarettes, quit-smoking apps, web-based interventions
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Arthur Peterson, Ph.D.
focus on youth and young-adult smoking prevention
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Engelberta “Beti” Thompson, Ph.D.
community approaches to smoking cessation, chew tobacco prevention
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SOLID TUMOR TRANSLATIONAL RESEARCH
Eric Holland, M.D., Ph.D.
director, Solid Tumor Translational Research, a multidisciplinary, multi-organizational effort to translate lab research into the most precise treatment options for patients with solid-tumor cancers
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STEM
[SEE SCIENCE EDUCATION]

STOMACH CANCER
Nina Salama, Ph.D.
microbiologist; focus on H. pylori, a bacterial pathogen that causes ulcers and stomach cancer
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STRESS AND CANCER RISK / IMMUNE FUNCTION
Bonnie McGregor, Ph.D.
focus on how psychological stress or resilience impacts immune function in breast cancer patients or those at risk for the disease
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SURVIVORSHIP ISSUES
[SEE CANCER SURVIVORSHIP]

RADIATION AND CANCER RISK
Parveen Bhatti, Ph.D.
biomarkers of environmental exposure, cancer risk and disease; focus on occupational or medical ionizing radiation
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Scott Davis, Ph.D.
biological effects of ionizing and non-ionizing radiation; focus on long-term health effects of Chernobyl disaster, Hanford nuclear site
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Hans-Peter Kiem, M.D.
HIV cell and gene therapy, aka “cure research”; using gene therapy to boost chemotherapy tolerance and effectiveness of medicines that attack brain cancer
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STRESSED ANIMATION / METABOLIC FLEXIBILITY
Mark Roth, Ph.D.
research focuses on dimming metabolism to one day buy time for trauma patients
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T CELL
[SEE IMMUNOTHERAPY]

TARGETED GENE CORRECTION
Keith Jerome, M.D., Ph.D.
HIV cell and gene therapy, aka “cure research”
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Hans-Peter Kiem, M.D.
HIV cell and gene therapy, aka “cure research”; using gene therapy to boost chemotherapy tolerance and effectiveness of medicines that attack brain cancer
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TECHNOLOGY TRANSFER / BUSINESS DEVELOPMENT

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ULCERS (SEE STOMACH CANCER)

VITAMINS / DIETARY SUPPLEMENTS
(ALSO SEE NUTRITION AND CANCER PREVENTION)

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WILMS TUMOR
(MOST COMMON KIDNEY CANCER IN CHILDREN)

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WOMEN’S HEALTH INITIATIVE

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Garnet Anderson, Ph.D.
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WOMEN’S REPRODUCTIVE HEALTH

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oral contraceptives and breast cancer risk
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Victoria Holt, Ph.D., M.P.H.
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Fred Hutchinson Cancer Research Center welcomes all visitors to its Seattle campus for scientific lectures, meetings, interviews and more. Our campus, which features 13 buildings on 15.2 acres with more than 1.5 million square feet of facility space, is home to five scientific divisions, three Nobel laureates and more than 200 scientific faculty.