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.
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]

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lead investigator, Seattle Barrett’s Esophagus Research Program; genetics, environmental exposure
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Thomas Vaughan, M.D., Ph.D.
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BIG DATA, AKA BIO-MEDICAL INFORMATICS

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biomedical informatics
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Thomas Vaughan, M.D., Ph.D.
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BIOETHICS
[ALSO SEE GENETIC COUNSELING]

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social, ethical and policy implications of genetic information, genetic testing
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BIOLOGICAL MARKERS FOR CANCER / EARLY DISEASE DETECTION

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Holly Janes, Ph.D.
focus on markers that predict treatment response
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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 Tapscoff, M.D., Ph.D.
development of biomarker tests for facioscapulohumeral muscular dystrophy, or FSHD, the most common form of muscular dystrophy
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Nicole Urban, Sc.D.
ovarian cancer
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BLOOD CANCERS
[SEE LEUKEMIA AND LYMPHOMA]

BONE MARROW TRANSPLANTATION, OR BMT

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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”
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George Georges, M.D.
reducing toxicity of transplantation and controlling a common complication called graft-versus-host disease, or GVHD
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Brenda Sandmaier, M.D.
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Mohamed Sorr, M.D.
impact of medical comorbidities on transplant outcomes
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BRAIN TUMORS

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pediatric neuro-oncologist; research includes improving imaging of cancer cells via Tumor Paint, a molecule derived from scorpion venom
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BREAST-FEEDING AND BREAST CANCER PREVENTION

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BLOOD CANCERS
[SEE LEUKEMIA AND LYMPHOMA]

BONE MARROW TRANSPLANTATION, OR BMT

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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”
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development of conditioning regimens with minimal toxicity
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pediatric neuro-oncologist; research includes improving imaging of cancer cells via Tumor Paint, a molecule derived from scorpion venom
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BREAST-FEEDING AND BREAST CANCER PREVENTION

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impact of breast-feeding on risk of various subtypes of breast cancer
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<table>
<thead>
<tr>
<th>Topic</th>
<th>Authors and Information</th>
</tr>
</thead>
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<tr>
<td><strong>BREAST GLOBAL HEALTH</strong></td>
<td>Benjamin Anderson, M.D. using evidence-based research to improve clinical outcomes in low- and middle-resource countries, chair of Breast Global Health Initiative</td>
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<td><strong>BURKITT LYMPHOMA</strong> [SEE INFECTIOUS DISEASE-RELATED CANCERS]</td>
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<td><strong>CANCER AND BANKRUPTCY, AKA ‘FINANCIAL TOXICITY’ OF CANCER</strong> [SEE ECONOMICS OF HEALTH CARE]</td>
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<tr>
<td><strong>CANCER AND DIVORCE</strong></td>
<td>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</td>
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<td><strong>CANCER AND THE ENVIRONMENT</strong> [SEE ENVIRONMENTAL / OCCUPATIONAL EXPOSURE AND CANCER RISK]</td>
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<td><strong>CANCER DISPARITIES</strong> [SEE MINORITIES AND CANCER]</td>
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<tr>
<td><strong>CANCER DRUG DEVELOPMENT</strong></td>
<td>Christopher Kemp, Ph.D. functional genetics / high-throughput screening of drug candidates</td>
</tr>
</tbody>
</table>
| **CANCER IMMUNOTHERAPY** [SEE IMMUNOTHERAPY FOR CANCER] | 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 David Madtes, M.D. early detection via low-dose CT lung cancer screening, lung cancer prevention  
| **CANCER OVERDIAGNOSIS / OVERTREATMENT** | Julian Simon, Ph.D. high-throughput, genome-wide strategies for identification of drug targets  
Ruth Etzioni, Ph.D. statistical and computer modeling for policy development, with research focus on prostate cancer  
Roman Gulati research focus on prostate cancer  
Eric Chow, M.D. pediatric and adult BMT survivor issues  
Mary Flowers, M.D. director, Adult Clinical Care Long-Term Follow-Up Program  
Stephanie Lee, M.D., M.P.H. post-transplant survivorship and quality of life  
Beth Mueller, Dr.P.H. reproductive outcomes in cancer survivors  
Karen Syrjala, Ph.D. adult survivorship; co-director of Fred Hutch Survivorship Program  
K. Scott Baker, M.D. pediatric survivorship; director of Fred Hutch Survivorship Program  
Rachel Ceballos, Ph.D. developing and evaluating culturally appropriate cancer survivorship programs  
||
| **CANCER SCREENING** | William Grady, M.D. biomarkers / screening, prevention, treatment of colorectal cancer  
Constance “Connie” Lehman, M.D., Ph.D. methods of early detection in breast cancer  
||
| **CANCER SURVIVORSHIP** | Nicole Urban, Sc.D. promotion, surveillance and cost-effectiveness; focus on ovarian cancer  
||
| **CANCER VACCINES** | Martin “Mac” Cheever, M.D. immunotherapy, vaccines  
Nora “Mary” Disis, M.D. breast cancer vaccines  
||
| **CARDIOVASCULAR DISEASE** | Alex Reiner, M.D., M.Sc. epidemiology, population biology and genomics  
Denise Galloway, Ph.D. HPV research led to development of cervical cancer vaccine  
Margaret Madeleine, M.P.H., Ph.D. HPV immunogenetics  
David Maloney, M.D., Ph.D. combining lower-intensity radiation conditioning with donated stem cells  
Stanley Riddell, M.D. CAR T-cell immunotherapy  
Jerald “Jerry” Radich, M.D. molecular diagnosis of remission as surrogate endpoint for clinical trials  
||
| **CHRONIC LYMPHOCYTIC LEUKEMIA, OR CLL** [ALSO SEE LEUKEMIA] | David Madtes, M.D. early detection via low-dose CT lung cancer screening, lung cancer prevention  
Polly Newcomb, Ph.D., M.P.H. prevention, screening of colorectal cancer  
Nicole Urban, Sc.D. promotion, surveillance and cost-effectiveness; focus on ovarian cancer  
||
| **CHRONIC MYELOID LEUKEMIA, OR CML** [ALSO SEE LEUKEMIA] | David Madtes, M.D. early detection via low-dose CT lung cancer screening, lung cancer prevention  
Polly Newcomb, Ph.D., M.P.H. prevention, screening of colorectal cancer  
Nicole Urban, Sc.D. promotion, surveillance and cost-effectiveness; focus on ovarian cancer  
||
| **CERVICAL CANCER AND HPV** [ALSO SEE INFECTIOUS DISEASE-RELATED CANCERS] | Denise Galloway, Ph.D. HPV research led to development of cervical cancer vaccine  
Margaret Madeleine, M.P.H., Ph.D. HPV immunogenetics  
||
| **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  
|**CANCER AND BANKRUPTCY, AKA ‘FINANCIAL TOXICITY’ OF CANCER** [SEE ECONOMICS OF HEALTH CARE] | |
CIRCADIAN DISRUPTION
AND CANCER RISK
(SEE SHIFT WORK AND CANCER RISK)

CLINICAL TRIAL DESIGN
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Garnet Anderson, Ph.D.
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COLORECTAL CANCER
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COMPARATIVE-EFFECTIVENESS
RESEARCH
(SEE ECONOMICS
OF HEALTH CARE)

COMPUTATIONAL
BIOLOGY
(THE INTER-
SECTION OF MATH AND
COMPUTER SCIENCE
WITH LAB-BASED RESEARCH)

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uses computers to understand
and visualize evolutionary
information, such as the
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CORD-BLOOD
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CROHN’S DISEASE
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CYTOMEGALOVIRUS
(SEE OPPORTUNISTIC
INFECTIONS)

DEATH WITH DIGNITY ACT
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led study of how Seattle Cancer
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DIET AND CANCER RISK
(SEE INUTRITION AND CANCER
PREVENTION)

DRUG SAFETY AND
EFFICACY IN CANCER
PATIENTS
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personalized dosing of
medications in cancer patients,
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ECONOMICS OF
HEALTH CARE
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EDUCATION
(SEE SCIENCE
EDUCATION, OR STEM)

ENVIRONMENTAL/
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EXPOSURE AND
CANCER RISK
(ALSO SEE RADIATION AND CANCER RISK)

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ESOPHAGEAL CANCER
(ALSO SEE BARRETT’S
ESOPHAGUS)

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EVOLUTION
(ALSO SEE PALEOVIRIOLOGY)

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development of complex traits
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GLUTEN INTOLERANCE  
(also see Celiac Disease)

GASTRIC CANCER  
(SEE STOMACH CANCER)

GENE THERAPY  
(SEE TARGETED GENE CORRECTION)

GENETIC COUNSELING

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GENOME-WIDE ASSOCIATION STUDIES, OR GWAS, OF COMMON, COMPLEX DISEASES

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

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HEAD AND NECK CANCERS

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HEALTH ECONOMICS  
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HEMATOPOIETIC STEM CELL TRANSPLANTATION  
(SEE BONE MARROW TRANSPLANTATION)

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HIV / AIDS

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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].

 compliment of bone marrow transplantation

HODGKIN LYMPHOMA  
(SEE LYMPHOMA)

HPV  
(SEE CERVICAL CANCER AND HPV)

H. PYLORI  
(HELICOBACTER 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
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IMMUNOTHERAPY (USING THE IMMUNE SYSTEM TO WIPE OUT CANCER)
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Sylvia Lee, M.D.
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KAPOSI SARCOMA (SEE INFECTIOUS DISEASE-RELATED CANCERS)
LEUKEMIA
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LYMPHOMA
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helped pioneer targeted antibody therapy
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Oliver “Ollie” Press, M.D.
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INFECTIONOUS DISEASE
(SEE OPPORTUNISTIC INFECTIONS)
Betz Halloran, M.D., M.P.H.
causal inference for infectious disease studies
betz@fredhutch.org

Michael Boeckh, M.D.
cytomegalovirus, respiratory virus biomarkers, diagnostics, treatment, prevention
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David Fredricks, M.D.
clinical expertise includes treating infections in patients with cancer
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Steven Pergam, M.D., M.P.H.
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Stanley Riddell, M.D.
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INFECTIONOUS DISEASE-RELATED CANCERS

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ANN WOOLFREY, M.D.
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LYMPHOMA

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AJAY GOPAL, M.D.
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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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INFLUENZA (SEE OPPORTUNISTIC INFECTIONS)

JUNO THERAPEUTICS INC. (ALSO SEE IMMUNOTHERAPY)

PHILIP GREENBERG, M.D.
head of immunology at Fred Hutch; co-founder, Juno Therapeutics Inc.
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### Malaria
James Kublin, M.D., M.P.H.
- malaria clinical trials / vaccines
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Barry Stoddard, Ph.D.
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### Marijuana and Cancer Risk
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### Melanoma
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- 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.
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### Metabolomics
[See Obesity, Metabolism and Cancer Risk]

### Merkel Cell Carcinoma
[An Aggressive Skin Cancer That Is On The Rise]

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### Microbiome Research
[How Microbial Communities Impact Human Health]

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Sujatha Srinivasan, Ph.D.
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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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### Minorities and Cancer
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### Minorities and HIV / AIDS
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### Multiple Myeloma
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Leona Holmberg, M.D., Ph.D.
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### Multiple Sclerosis
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### Muscular Dystrophy
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Stephen Tapscott, M.D., Ph.D.
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### Myelodysplastic Syndrome
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Bart Scott, M.D.
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### Neurobiology
Linda Buck, Ph.D.
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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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### Non-Hodgkin Lymphoma
[See Lymphoma]
NUTRITION AND CANCER PREVENTION
(ALSO SEE OBESITY, METABOLISM AND CANCER RISK)

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dietary cancer risk factors, promoting healthful dietary behavior, focus on diet and prostate cancer
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how components of plant foods alter cancer risk
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OBESITY, METABOLISM AND CANCER RISK
(ALSO SEE NUTRITION AND CANCER PREVENTION)

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OBSTRUCTIVE SYSTEM
(SENSE OF SMELL)

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OPPORTUNISTIC INFECTIONS
(ALSO SEE INFECTIOUS DISEASE)

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Steven Pergam, M.D., M.P.H.
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ORAL CANCER

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ORAL CONTRACEPTIVES
(SEE WOMEN’S REPRODUCTIVE HEALTH)

OVARIAN CANCER

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PHYSICAL ACTIVITY AND CANCER PREVENTION
(SEE EXERCISE AND CANCER PREVENTION)

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PALLIATIVE CARE

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PANCREATIC CANCER

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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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PROTEOMICS

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RADIATION AND CANCER RISK
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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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Sickle Cell Disease
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Stem (See Science Education)
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Survivorship Issues (See Cancer Survivorship)
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Targeted Gene Correction
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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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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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