

Stanford Cancer Institute

Faculty	Title	Research Focus
Anesthesiology, Perioperative & Pain Medicine		
Sean Mackey	Professor	Sex/gender differences for the effect of opioids on baseline brain structure
Bioengineering		
Russ Altman	Professor	Examination of sex-differential effects in normal tissue and drug response expression data <i>PI 2018 WHSDM seed grant: Developing a robust baseline gene expression dataset for menstrual cycle variability in blood</i>
Jennifer Cochran	Professor	Engineered a protein that interferes with breast and ovarian cancer signaling
Stephen Quake	Professor	Non-invasive diagnosis of fetal aneuploidy in maternal blood; Single cell RNA-seq to examine changes in the human endometrium throughout the menstrual cycle
Biomedical Data Sciences		
Wing Wong	Professor	<i>Co-I 2017 WHSDM seed grant: Leveraging aneuploidy to examine sex chromosome effects in neurodevelopment</i>
Cardiothoracic Surgery		
Leah Backhus	Associate Professor	Exploration of hormonal status and hormone replacement therapy on the development and outcomes of lung cancer in women
Chemical & Systems Biology		
Daria Mochly-Rosen	Professor	Reducing reactive aldehyde levels to treat endometriosis-associated pain
Mary Teruel	Assistant Professor	Molecular mechanisms underlying insulin resistance, diabetes, and obesity

Comparative Medicine			
	Thomas L. Cherpes	Assistant Professor	Immune mechanisms of the female reproductive tract, basic & translational in mice and humans; Hormonal contraception and increased HIV susceptibility; Type 2 immune defense against Chlamydia trachomatis
Dermatology			
	Howard Chang	Professor	<i>Co-I 2017 WHSDM seed grant:</i> Investigating sex differences in human plasmacytoid dendritic cell function and regulation
	Kevin Wang	Assistant Professor	Sex differences in melanoma survival <i>PI 2015 WHSDM seed grant:</i> Integrated proteomic and transcriptomic analysis of X and Y sperm
	Jean Tang	Professor	Melanoma in women <i>Co-I 2014 WHSDM seed grant:</i> Effect of cell sex on smooth muscle cells and fibroblasts derived from human embryonic stem cells
	Susan Swetter	Professor	Sex differences in melanoma incidence, survival, and prevention
Developmental Biology			
	Kyle Loh	Assistant Professor	<i>Co-I 2019 WHSDM seed grant:</i> Uncovering potential sex differences in male and female human primordial germ cells
Genetics			
	Ami Bhatt	Assistant Professor	Microbiome and disease
	Anne Brunet	Professor	Aging in males and females
	Carlos Bustamante	Professor	Y chromosome evolution; Population genetics
	William Greenleaf	Associate Professor	<i>Co-I 2018 WHSDM seed grant:</i> Molecular mechanisms that control sexual differentiation of the mammalian brain

	Billy Li	Associate Professor	RNA editing sex specific
	Mike Snyder	Professor	Male & female metabolomic, methyome, proteome, genome <i>Co-I 2018 WHSDM seed grant:</i> Modeling endothelial dysfunction in preeclampsia using patient-specific iPSCs; <i>Co-I 2014 seed grant:</i> Sex differences in adipocyte responses to experimentally-induced weight gain
	Hua Tang	Professor	<i>Co-I 2014 WHSDM seed grant:</i> Elucidating the APOE-by-gender interaction in Alzheimer's disease
Health Research and Policy			
	Mark Hlatky	Professor	Women's cardiovascular health <i>Co-I 2018 WHSDM seed grant:</i> Plasma proteomic and metabolomic biomarkers associated with breastfeeding and maternal cardiovascular health: a pilot study; <i>Co-I 2017 seed grant:</i> The impact of eye disease and visual function on women's health: defining a Women's Health Initiative (WHI) population for study
	Allison Kurian	Professor	Women at high risk for developing breast and gynecologic cancers
Medicine			
	Christopher Gardner	Professor	Weight loss diets in women
	Allison Kurian	Professor	Women at high risk for developing breast and gynecologic cancers
	Uri Ladabaum	Professor	Colorectal cancer screening and prevention in women
	Jennifer Lee	Associate Professor	<i>Co-I 2020 WHSDM seed grant:</i> Thumb carpometacarpal osteoarthritis as an early marker for low bone mineral density in postmenopausal women
	David Miklos	Associate Professor	Clinical impact of H-Y alloimmunity
	Beverly Mitchell	Professor	Sex differences in cancer

	Mindie Nguyen	Professor	Sex differences in liver cancer and chronic hepatitis B
	Judith Prochaska	Associate Professor	Social media support groups for promoting heart health
	David Rehkopf	Associate Professor	Sex and gender differences in health outcomes
	Marcia Stefanick	Professor	Sex and gender differences in medicine; Women's health across the lifespan
	Melinda Telli	Associate Professor	Understanding breast cancer risk and screening
	Heather Wakelee	Professor	Sex differences in lung cancer
	Joseph C. Wu	Professor	<i>PI 2018 WHSDM seed grant:</i> Sex-dependent contribution of endothelial progenitor cells to fibrosis in calcific aortic valve disease <i>Co-I 2019 WHSDM seed grant:</i> Impact of sex hormones on thoracic aortic aneurysm formation of Marfan syndrome; <i>Co-I 2018 seed grant:</i> Modeling endothelial dysfunction in preeclampsia using patient-specific iPSCs; <i>Co-I 2015 seed grant:</i> Sex differences in ventricular adaptation and recovery in patients with aortic stenosis undergoing transcatheter aortic valve replacement; <i>Co-I 2015 seed grant:</i> Global gene expression profiling of the effects of estrogen and testosterone on human cardiomyocytes derived from induced pluripotent stem cells
	Joy Wu	Assistant Professor	Effects of parathyroid hormone on male and female skeletal metastases
Microbiology & Immunology			
	Mark Davis	Professor	Systems analysis of sex differences reveals an immunosuppressive role for testosterone in the response to influenza vaccination
	Juliana Idoyaga	Assistant Professor	<i>PI 2017 WHSDM seed grant:</i> Investigating sex differences in human plasmacytoid dendritic cell function and regulation

	Peter K. Jackson	Professor	<i>Co-I 2020 WHSDM seed grant:</i> Identification of a sex-dependent brain-derived factor controlling bone mass
	Holden Maecker	Professor	Sex differences in the human immune monitoring center
Neurosurgery			
	Summer Han	Assistant Professor	<i>Co-I 2018 WHSDM seed grant:</i> X-ploring the sex specific genetic architecture of late-onset Alzheimer's disease
	Theo D. Palmer	Professor	<i>PI 2016 WHSDM seed grant:</i> Examining sex differences in the human and mouse placental transcriptome during a vulnerable neurodevelopmental window
Obstetrics & Gynecology			
	Jonathan Berek	Professor	Immunotherapy and small molecules for gynecologic cancers
	Paul Blumenthal	Professor	Contraception and Abortion services; RCTs; Systematic Reviews; Global health care in Low Resource Settings; Demedicalization and simplification of Family Planning and Abortion programs; Development of New Contraceptive Technologies (microspheres, Apps for self-management); Cervical Cancer Prevention in Low Resource Settings
	Oliver Dorigo	Associate Professor	Immunotherapy and Genomics of Ovarian Cancer
	Erinn Rankin	Assistant Professor	Bone Development; Novel oncogenic pathways in ovarian cancer, FAST radiation
	Nelson Teng	Professor	Ovarian Cancer and Humeral Immune System
Otolaryngology			
	Edward J. Damrose	Professor	Effects that hormones and exogenous factors such as anabolic steroids may exert on the voice and the subsequent changes to the vocal cords that these substances may incur

	Chris Holsinger	Professor	Epidemic of papillary thyroid cancer and the quandary of active surveillance
	Uche Megwalu	Associate Professor	Sociodemographic disparities in head and neck cancer
	C. Kwang Sung	Assistant Professor	Voice outcomes following feminization laryngoplasty in trans women
Pathology			
	Kristin Jensen	Associate Professor	Clinical-pathological studies of breast cancer
	Christina Kong	Professor	Gynecologic pathology <i>Co-I 2018 WHSDM seed grant: Sex differences in lower urinary tract dysfunction after pelvic radiation</i>
	Teri A. Longacre	Professor	Gynecological, breast and gastrointestinal pathology with major emphasis on ovarian cancer and ovarian tumors of low malignant potential; Pathology of familial and hereditary breast-ovarian-GI cancer
	Matt van de Rijn	Professor	Genetic and phenotypic studies of the pathogenesis & subclassification of human breast cancer, employing genetic, tissue array, 3SEQ, and computer learning approaches
	Marius Wernig	Professor	Breast cancer - stem cells and reprogramming into the neural lineage
	Robert West	Professor	Genetic and phenotypic studies of the pathogenesis & subclassification of human breast cancer, employing genetic, tissue array, 3SEQ, and computer learning approaches
Pediatrics			
	Bonnie Halpern-Felsher	Professor (Research)	Understanding and reducing health risk behaviors such as tobacco use, alcohol and marijuana use, risky driving, and risky sexual behavior

Psychiatry and Behavioral Sciences			
	David Spiegel	Professor	Group therapy and community support to improve outcomes and mental health for women with breast cancer; Intellectual impairment in women with breast cancer; Management of insomnia in breast cancer patients
Radiation Oncology			
	Kathleen Horst	Associate Professor	Breast cancer; Partial breast irradiation
	Elizabeth Kidd	Assistant Professor	Treatment of gynecologic cancer <i>PI 2018 WHSDM seed grant: Sex differences in lower urinary tract dysfunction after pelvic radiation</i>
Radiology			
	Bruce Daniel	Professor	New techniques for MRI of breast cancer - ultra high spatial resolution MRI and contrast-agent-free detection of breast tumors; MRI-guided interventions, especially MRI-compatible remote manipulation and haptics; Methods of fusing patients and their images to potentially improve breast conserving surgery
	Dominik Fleischmann	Professor	<i>Co-I 2015 WHSDM seed grant: Sex differences in ventricular adaptation and recovery in patients with aortic stenosis undergoing transcatheter aortic valve replacement</i>
	Debra M. Ikeda	Professor	Improving the health and lives of women by breast cancer detection and diagnosis using imaging, in both development and testing of new imaging techniques, and transfer of new technology to the clinical arena
	Sharon Pitteri	Associate Professor	<i>Co-I 2015 WHSDM seed grant: Integrated proteomic and transcriptomic analysis of X and Y sperm</i>
Surgery			
	Frederick M. Dirbas	Associate Professor	Minimizing the impact of breast cancer from a diagnostic and therapeutic standpoint.

	Geoffrey Gurtner	Professor	Breast reconstruction surgery
	Stefanie S. Jeffrey	Professor	Factors influencing decision-making about the use of chemoprevention in women at increased risk for breast cancer; Molecular analysis of breast cancer; Temsirolimus to reverse androgen insensitivity for castration-resistant prostate cancer
	Michael Longaker	Professor	Cellular and molecular biology of extracellular matrix with specific applications to the differences between fetal and post-natal wound healing
	Samuel So	Professor	Global hepatitis B prevention of pregnant women and mothers
	Irene Wapnir	Professor	Clinical treatment trials in breast cancer, especially locally recurrent breast cancer; improving surgical outcomes mastectomies and breast cancer surgery; exploring the activity of breast sodium-iodide transporter (NIS) in breast cancer; elucidating the potential application of NIS-based therapies
Urology			
	Michael Eisenberg	Associate Professor	Paternal factors and birth outcomes
	Wendy Fantl	Assistant Professor (Research)	Enhance the understanding of high grade serous ovarian cancer at the single cell level
	John Leppert	Associate Professor	<i>PI 2020 WHSDM seed grant:</i> Sex differences in urinary response to alkali salts: a key consideration for treatment of women with calcium phosphate kidney stones
	Linda Shortliffe	Professor, Emerita	Effects of sex hormones and pregnancy on urinary tract physiology to better understand their involvement in renal and urinary tract pathophysiology
	Zijie Sun	Professor, Emeritus	<i>PI 2014 WHSDM seed grant:</i> Androgen signaling in alcohol-seeking behavior between genders