

CFAR Membership Listing 2015									
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Anatomic Pathology									
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Biochemistry and Molecular Genetics									
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Biology									
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Cell, Developmental and Integrative Biology									
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Endocrinology, Diabetes and Metabolism									
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Nuclear Medicine Tech Program									
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Nursing Family/Child Health/Caregiver									

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Nutrition Biochemistry & Genomics								
Piyathilake	Chandrika J.	Ph.D.	1	piyathic@uab.edu	5/15/07	Associate Professor	Senior Scientist	School of Health Professions
Nutrition Sciences								
Chang	Pi-Ling	Ph.D.	2,6	plchang@uab.edu	4/7/11	Associate Professor	Scientist	School of Health Professions
Obstetrics/Gynecology								
Goldenberg	Robert L.	M.D.	1	n/a	6/21/02	Professor Emeritus	Senior Scientist	School of Medicine
Alvarez	Ronald D.	MD	1	rdalvarez@uab.edu	1/31/11	Professor	Senior Scientist	School of Medicine
Goepfert	Alice R.	M.D.	3	aliceg@uab.edu	3/10/07	Professor	Senior Scientist	School of Medicine
Khan	Michelle	MD		khanmi@uab.edu	4/22/15	Assistant Professor	Scientist	School of Medicine
Huh	Warner K.	M.D.	1	whuh@uab.edu	1/31/11	Professor	Senior Scientist	School of Medicine
Optometry								
DeLucas	Lawrence J.	Ph.D	2	duke2@uab.edu	8/22/89	Professor/Director	Senior Scientist	School of Optometry
Pathology								
Bucy	R. Pat	M.D.	1	bucy@uab.edu	5/6/92	Professor	Senior Scientist	Joint Health Sciences
McDonald	Jay M.	M.D.	1	mcdonald@uab.edu	2/7/89	Professor/Chairman	Senior Scientist	Joint Health Sciences
Pediatric Dentistry								
Childers	Noel K.	DDS	2	nkc@uab.edu	8/22/89	Professor and Chairman	Senior Scientist	School of Dentistry
Kiyono	Hiroshi	Ph.D.	1	kiyono@uab.edu	4/25/95	Adjunct Professor	Senior Scientist	School of Dentistry
Pediatrics								
Atkinson	Thomas P.	M.D.	2	patkinso@uab.edu	07/16/07	Associate Professor	Senior Scientist	School of Medicine
Ballestas	Mary E.	Ph.D.	4,5,6	marybb@uab.edu	11/13/09	Assistant Professor	Associate Scientist	School of Medicine
Berkow	Roger L.	M.D.	4	berkow@uab.edu	5/15/00	Professor	Senior Scientist	School of Medicine
Britt	William J.	M.D.	1	wbritt@uab.edu	10/1/89	Professor	Senior Scientist	School of Medicine
Crain	Marilyn J.	M.D.	3	mjcb@uab.edu	2/9/90	Associate Professor	Senior Scientist	School of Medicine
Fowler	Karen B.	Dr.P.H.	2	KFOWLER@uab.edu	7/16/97	Professor	Senior Scientist	School of Medicine
Howard	Thomas H.	M.D.	2	thoward@uab.edu	9/13/91	Professor	Senior Scientist	School of Medicine
Pass	Robert F.	M.D.	1	rpass@uab.edu	9/1/89	Professor	Senior Scientist	School of Medicine
Simpson	Tina Y	MD	4	tinaSimpson@uab.edu	1/23/14	Associate Professor	Research Scientist	School of Medicine
Stagno	Sergio	M.D.	3	sstagno@uab.edu	8/22/89	Professor/Chairman	Senior Scientist	School of Medicine
Sturdevant	Marsha S.	M.D.	3	marshss@uab.edu	6/7/94	Associate Professor	Scientist	School of Medicine
Sullender	Wayne M.	M.D.	2	wsull@uab.edu	9/17/91	Professor	Senior Scientist	School of Medicine
Whitley	Richard J.	M.D.	2	rwhitley@uab.edu	8/22/89	Professor	Senior Scientist	School of Medicine
Pediatrics-Rheumatology								
Cron	Randy Q.	M.D.	1	rcron@uab.edu	5/14/08	Professor	Senior Scientist	School of Medicine
Lowe	Robert	M.D.	4,6	rmlowe@uab.edu	8/27/12	Instructor	Associate Scientist	School of Medicine
Pharmacology & Toxicology								
El Kouni	Mahmoud H.	Ph.D.	2	melkouni@uab.edu	5/19/97	Professor	Senior Scientist	Joint Health Sciences
Preventive Medicine								
Desmond	Renee Anr	Ph.D.	4	desmond@uab.edu	9/19/11	Associate Professor	Senior Scientist	School of Medicine
Schoenberger	Yu-Mei M	PhD		yumeis@uab.edu	1/23/14	Assistant Professor	Research Scientist	School of Medicine
Psychology								
Cropsey	Karen	Ph.D.	1,5	kcropsey@uab.edu	4/1/10	Associate Professor	Scientist	School of Medicine
Psychiatry								
Turan	Bulent	Ph.D.	4	Bulent@uab.edu		Assistant Professor	Psychology	College of Arts and Sciences
Milby	Jesse B.	Ph.D.	1	jmilby@uab.edu	7/1/97	Professor	Senior Scientist	College of Arts and Sciences
Sociology								
Clair	Jeffrey M.	Ph.D.	4	jclair@uab.edu	2/18/92	Associate Professor	Scientist	College of Arts and Sciences
Szafarski	Magda	Ph.D.	3	szafiam@uab.edu		Assistant Professor	Associate Scientist	College of Arts and Sciences
Sociology and Social Work								
Pollio	David	Ph.D.	3,5		4/1/10	Professor	Senior Scientist	College of Arts and Sciences

Surgery									
Schwacha	Martin	G.	Ph.D.	2	n/a	5/15/07	Associate Professor	Scientist	School of Medicine
Thompson	John	A.	Ph.D.	2	drtony@uab.edu	2/7/90	Professor	Senior Scientist	School of Medicine
Locke	Jayne	E	MD	2	jlocke@uab.edu	5/6/15	Assistant Professor	Scientist	School of Medicine
Surgical Physician Assistant Program									
Jennings	Patricia	R.	Dr.PH	4	prienn@uab.edu	9/20/04	Professor	Senior Scientist	College of Arts and Sciences

Area of Expertise
Studying the mechanisms that control T cell development during an immune response
Life cycle of Human Paillomaviruses and associated malignancy Human Papillomavirus Gene Expression, Replication, and Pathogenesis Mechanism and Regulation of Mammalian mRNA Turnover Molecular and Cell Biology of Human Papillomaviruses Biomolecular NMR spectroscopy and structural biology Regulation of gene expression during development
Axonomy, systematics, and the evolution of ecological interactions
Statistical methods in clinical trials, survival and reliability analysis, analysis of pool screening and count data, goodness-of-fit and model diagnostics, and inference for heavy tail distribution. Obesity, quantitative genetics, clinical trials, and statistical and research methodology. He also serves as a frequent consultant and expert witness in the legal setting Biostatistical methods Biostatistical Analysis design and analysis of multicenter clial trials Major interest in design, analysis, conduct and interpretation of clinical trials, epidemiologic studies and evaluation research
Understanding how the immune system and central nervous system (CNS) communicate with each other. Skeletal muscle mass regulation in aging, disease, and exercise medicine Developmental Immunology/Structural Immunology Protein trafficking in the secretory and endocytic pathways (1) the roles of and lineage relationships between effector CD4 T cell subsets during chronic inflammatory disorders, and (2) the factors critical for the development and maintenance of CD4 T cell memory. Understanding, at the molecular level, virus-host cell interactions/Microbiome research Cellular and molecular basis of immune and inflammatory responses in the immune system, especially in the central nervous system (CNS). HIV protease inhibitors suppress fatty acid oxidation; apoptosis Identification of SP3 as a Negative Regulatory Transcription Factor in the Monocyte Expression of Growth Hormone
Protein Structural Cooperatively and Energetics How enzymes catalyze reactions for very specific functions in the cell.
Multicenter clinical trials designed to assess the absorption and disposition of antiviral and antiretroviral drugs Cancer molecular studies; gene expression; and drug discovery and development.
Dermatology
HIV and HCV Testing in ER
Diabetes and Obesity; Energy Metabolism; Neuroendocrinology Signal Transduction; Cytokine Structure/Function
Genetic epidemiology of cardiovascular diseases Genetic etiology of lymphomas, uterine leiomyomas (fibroids) and the immunogenetics of HIV infection and comorbidities. Natural history of viral infections and aberrant immune function common to inflammatory-mediated chronic diseases. HPV-based screening tests, and establish best practice guidelines for the management of cervical neoplasia in HIV-infected women in India. Field research on the prevalence and risk factors for HIV and other sexually transmitted infections (STIs), particularly in pregnant women and STD clinic attendees in Jamaica and voluntary counseling and testing for HIV in pregnancy and adherence to antiretroviral therapy in Ghana. Perinatal epidemiologist with research interests in reproductive health, adverse perinatal outcomes, infectious diseases and HIV/STD prevention among vulnerable populations CVD and hypertension; anti-hypertensive medications; diabetes and metabolic syndromes; renal disease; translational genomics, oncology, molecular epidemiology, infectious disease and global health

Occupational epidemiologist and pediatrician whose research interests include cancer and infectious diseases epidemiology.
Interplay of human genetics with behavioral and environmental factors in the natural history, pathogenesis and outcomes of HIV/AIDS and other infectious diseases.
HIV management and prevention in HIV infected and at risk youth in the US/extensive experience and expertise in international global health programs through Directorship of the Sparkman Center
Day to day management of the Genomics Core Facility including the Cancer Center's Gene Expression Shared Facility
Workplace ramifications of HIV/AIDS
Associate Dean for Academic Affairs
HIV Prevention in economically disadvantaged communities
STD/HIV and other reproductive health issues among adolescents and young adults
Health communication, smoking cessation, and chronic disease prevention and control. She teaches courses in behavioral science and health communication.
adolescent reproductive health, including recent involvement in research on HIV/AIDS prevention; developing a consumer friendly HIV/STI prevention application for adolescents; is involved in community-based research and engagement in the greater Birmingham area
Science of dissemination, implementation, and scale-up of effective health practices and programs/ Evidence-based HIV prevention, treatment, and linkage-to-care interventions
Chronic disease prevention, health behaviors, and the impact of data collection and management on research outcomes.
Health services administration
Study of stigma as it relates to a variety of reproductive health conditions/services, including abortion, obstetric fistula, HIV/AIDS, and gender-based violence.
Antivirals
Methods of enhancing radiosensitization such as combinations of chemotherapy or targeted therapy with radiotherapy
Prevention and treatment of systemic fungal infections.
B cells; antibodies; Fc receptors;
immunoglobulin-like receptors; immunopathology
Predicting disease outbreaks
Adaptive and Innate Immune Responses to Pneumococci and Pneumonia Vaccines
Gerontology/Geriatrics/Palliative Care
Infectious Diseases
Pulmonary/Allergy/Critical Care/Smoking Cessation/Tuberculosis
B cells; dendritic cells; Rheumatoid arthritis
Adaptive T-cell responses in HIV-1 transmission and pathogenesis
Cancer Center Administrator
CMV/pathogenesis and natural history
Medical informatics
Gerontology, Geriatrics and Palliative Care
Lymphoproliferative disorders and B-CLL in particular.
HIV and STD co-infection, HIV in pregnancy and global health; an HIV PEPFAR project in Southern Haiti with a focus on improving clinical care and preventing mother-to-child transmission of HIV
Mycobacterial diseases
Clinical management and trials in HCV mono-infection and HIV-HCV co-infection; accelerated pathogenesis of HIV-HCV co-infection
Gastroenterology
Biological characteristics of Chlamydia trachomatis and the human host immune-mediated responses on the clinical manifestations and outcomes of urogenital chlamydial infection
Immune correlates of protection against HIV disease progression with a focus on cell mediated immune responses (CD4 and CD8 T cells)
Elucidating the origins and evolution of human and simian immunodeficiency viruses, and in studying HIV/SIV gene function and disease mechanisms from an evolutionary perspective
Characterization of cytotoxic T Lymphocyte (CTL) responses at various stages of HIV infection/Maintenance of memory CTL responses in HIV infection

Vitamin D: Evaluation of HIV Progression and TB Treatment Outcomes in Zambia; Treatment of HIV/Tuberculosis co-infected prison populations in underdeveloped countries (Zambia)
Development of a safe and effective microbicide to prevent sexual transmission of HIV. He is the UAB site leader for the NIH-funded Microbicide Trials Network
Sexually transmitted diseases
Investigate viral and cellular factors that affect mucosal HIV-1 transmission
HIV drug development and pathogenesis, especially the detection and implications of viral drug resistance
Molecular biology of the human immunodeficiency virus type 1 (HIV-1), and the development of lentiviral-based vectors for gene delivery
Addiction and medical care for the homeless and other underserved populations
Use of molecular immunology and immunogenetics to identify susceptibility and severity factors for human autoimmune disease and to identify new targets for therapeutic approaches.
Operational and programmatic issues related to drug-resistant TB case management, integration of TB-HIV care, screening/diagnostic strategies for identifying TB in HIV infected poulation
Nephrology
Treatment of HIV/Tuberculosis co-infected prison populations in underdeveloped countries (Zambia)
Molecular biology of latent HIV-1 infection/HIV-1 eradication strategies/drug discovery
Association between gamma/delta T cell recovery and disease-free survival in allogeneic bone marrow transplantation patients / evaluation and translation of innate cell-based therapies for Glioblastoma Multiforme
Anti-viral drug discover against arboviruses and malaria.
Clinical Trials Design, Conduct and Management
Gamma-delta T cells
Safe and effective HIV vaccine using human adenovirus (Ad)-based delivery strategies
HIV and Palliative care and pain
Gene Therapy, Immunogenetics, Medicine, Microbiology, Pathology, T-cell Aging, T-cell Imaging
HIV health services utilization ranging from diagnosis and initial linkage to care to long-term clinical outcomes with particular emphasis on engagement in outpatient HIV treatment and health care disparities
Sexually transmitted diseases
Pathogenesis of vascular disease; Pathophysiology and treatment of high blood pressure
HCV and HIV Clinical Trials Networks
Transplant associated infections including invasive mycoses/ diagnosis, epidemiology and new therapeutic approaches for invasive candidiasis, cryptococcosis, aspergillosis, sporotrichosis, blastomycosis, and histoplasmosis.
Economic methods for the evaluation of health interventions and econometric methods for the analysis of secondary data
CFAR Administrative Director
Elucidation of mechanisms that regulate generation and maintenance of immune tolerance in T and B lymphocytes
B Cell Differentiation; influenza;Generation of Memory CD8 T cells
Health outcome research in patients living with HIV, social/family support for patients living with HIV, gay men's health issues, health promotion/HIV prevention in men who have sex with men, and health policy.
HIV-specific T cells from different compartments and their role in the pathogenesis of HIV infection.
Studies of HIV and HCV clinical, translational, and outcomes research
DNA Sanger Sequencing technology
Cancer prevention among low-income, minority (Latinas and African Americans), and immigrant women; (2) socioeconomic status and health outcomes; and (3) depression.
Developmental genetics; clinical immunology
Pathogenesis of bacterial vaginosis and its relationship to the acquisition of STDs as well as epidemiology and control of trichomoniasis
drug development
Human retroviruses; molecular virology and pathogenesis
Macrophage HIV-1 infection and the gastrointestinal tract reservoir
Cystic Fibrosis and Molecular Genetics; Patient Oriented Research
Lung host defense research
HIV-1 infection, vaccination against hepatitis B virus, and infection-related malignancies
Topical Vaccines
Sexually transmitted diseases/ HSV-2 and HIV Co-infection
Bone density and metabolism; osteoporosis and HIV lipodystrophy
Gastroenterology
Kinases, enzymatic proteins that control signaling within cells through their phosphorylation of other proteins.
Investigating health disparities and the influence of gene/environment interactions on body composition and free fatty acids
Quality improvement and medical informatics have found expression in both research into quality issues in HIV primary care, as well as the integration of medication dosing decision support into the 1917 Clinic electronic medical record.
Targeted Activation of Innate Immune Functions Against Mtb in HIV/TB Co-infection; HIV Latency
Molecular regulation of B lineage cell development, Molecular regulation of V(D)J recombination and antibody repertoire formation, Abnormal B cell functions in autoimmune diseases, such as SLE and RA, B cell anti-HIV response, Pathogenesis of B cell malignancies

Host defense functions of complement as it relates to bacterial meningitis and malaria
Bacterial and animal genetics to identify and study important mechanisms in protection and virulence against colonization and invasive disease
Normal and abnormal development of immune system cells
Combining electron microscopy (EM), especially cryo-EM, three-dimensional reconstruction, X-ray crystallography, NMR and other biochemical and biophysical approaches to study the structure, assembly and function of viruses and proteins involved in bacterial pathogenicity
Alphavirus genome replication and particle assembly
Virus-host interaction, virus replication
Role of cell type-specific ER-associated degradation in polyomavirus trafficking
Transcriptional Regulation of Adaptive Immunity
Discovering fundamental cellular and molecular mechanisms involved in the development of T and B lymphocytes
Development and maintenance of humoral immunity
Understanding the underlying molecular events controlling cell fate decisions within the hematopoietic system, especially within the lymphoid lineages
Develop Bioinformatic resources and analyses that can be used to support the development of environmental detectors, diagnostics, animal models, vaccines, and antimicrobial drugs, as well as provide a better understanding of the molecular biology, evolution, and epidemiology of these agents.
Dendritic cells in controlling Th2 polarization in allergy and immunity/ Roles of B cells in rheumatoid arthritis
Modulators of Inflammation and Immunity
Molecular genetic analysis of HCV replication, virus-host interaction, and molecular pathogenesis.
Development of effective and economic therapy of infectious diseases requires thorough understanding of the biology of these infectious agents and innovative approaches to the problems
Molecular-cellular interactions involved in the differentiation of B lymphocytes and epithelial cells of the mucosal immune system and the novel approaches for the induction of the humoral immune response in external secretions
Mucosal vaccine development and on mechanisms involved in the induction of mucosal immune responses (including responses in the respiratory, gastrointestinal and urogenital tracts and the oral cavity) or of inflammatory responses
Mucosal vaccine development
Identify and characterize the outer membrane proteome of <i>M. tuberculosis</i> .
Glycosylation of immunoglobulins in health and disease in humans (IgA nephropathy, chronic inflammatory diseases, Kawasaki syndrome) and regulation of immunoglobulin glycosylation.
Viral capsids represent symmetrical nanoscale platforms that are amenable to both genetic and chemical manipulation
Expertise in immune tolerance to discover why the body has trouble fighting cancerous cells
Underlying structural basis by which retroviral Gag polyproteins interact with cellular constituents during the virus replication cycle.
Mechanisms of <i>M. tuberculosis</i> virulence/signal transduction pathways in <i>M. tuberculosis</i> ; Carbon Monoxide and Mycobacterium Tuberculosis Persistence in HIV/TB Coinfected; One of the first investigators at KRITH, the KwaZulu-Natal Research Institute for Tuberculosis and HIV, a new HIV-TB research center in Durban, South Africa
The role of oxidative stress on autoimmune Type 1 diabetes
Identifying host cell factors that are required for viral replication
Structure/Function of the <i>Bacillus anthracis</i> Exosporium; Bacterial Gene Regulation
X-ray Crystallography; Molecular Recognition;
<i>Streptococcus pneumoniae</i> genetics and pathogenesis
Understanding how the immune response combats viral infections.
HIV-1 pathogenesis and vaccine development. Design of novel strategies for immunotherapy of cancer.
Mechanisms of Cell Signaling by Mitochondria in Physiology and Disease
Brain cancer, neuropathology
Targeting the Autophagy-Lysosome Pathway for Therapeutic Benefit in Parkinson's Disease
Mechanisms of glucose mediated regulation of cardiac mitochondrial function
NeuroImmunology
Development of a flow-dependent in vitro blood-nerve barrier model to study pathogenic leukocyte trafficking in real time; animal models of acute and chronic demyelinating neuritis, severe murine experimental autoimmune neuritis and spontaneous autoimmune peripheral polyneuropathy.
Mitochondrial function measurements with 31P MRS methods
Adolescent sexual health; HIV/AIDs Prevention
Factors that influence cervical cancer screening in HIV- infected women; Communication systems in HIV/AIDS sexual decision making in young adult females.
Minority health, HIV prevention, sexual risk behaviors
Women's health; gender and empowerment; stress, coping and adaptation; depressive symptoms and quality of life in the context of chronic illness; self-care and disease management; HIV-related stigma and disclosure; cognitive appraisal and the meaning of illness; peer-based social support interventions

Emerging nurse researcher focused on educating the community on HIV/AIDS prevention Clinical epidemiology of HIV/AIDS in the Southeast, especially as it relates to the impact of antiretroviral therapy on HIV positive women and their infants. Investigating cognitive and behavioral interventions in older adults. He has also conducted three studies on HIV, specifically examining cognitive aging and everyday functioning in this population
Methylenetetrahydrofolate Reductase (MTHFR) Polymorphism Increases the Risk of Cervical Intraepithelial Neoplasia
Regulation of calcitriol on TPA-induced tumorigenesis and the involvement of osteopontin in tumorigenesis
P.I. for the NIAID HIVNET 024 study (Dar es Salaam, Tanzania, Lilongwe and Blantyre, Malawi; and Lusaka, Zambia) of antibiotics to prevent chorioamnionitis – related maternal to child transmission of HIV. He is P.I. Obstetrics/gynecology Ob/gyn residency program director
Research and treatment of gynecologic cancers, with a particular emphasis on cervical cancer and the effects of the human papillomavirus (HPV)
Membrane Protein Structure-Function Relationships, Cystic Fibrosis Transmembrane Regulator, X-Ray Crystallography
T cell Regulation of Immune Responses Cellular Life and Death Signals in Cancer, Aids and Bone Disease.
Vaccine development
Allergy/Immunodeficiency Infectious Diseases/Kaposi's sarcoma/viral latency
Biology of herpesviruses/viral assembly and pathogenesis of CMV Pediatric infectious diseases CMV, mother to child transmissions Pediatrics, hematology/oncology Vaccines for prevention of maternal and congenital cytomegalovirus (CMV) infection Determining ways to adequately and cost effectively provide preventive healthcare to adolescents as well as addressing reproductive health disparities among adolescents and young adults. Impact of primary and recurrent maternal cytomegalovirus (CMV) infection in the outcome of congenital infection Pediatrics, HIV/AIDS Respiratory syncytial virus; antigenic diversity Clinical trials of antiviral therapies directed against medically important viral diseases: herpes simplex virus infection, enteroviral infections, cytomegalovirus infections, hepatitis C, and respiratory virus diseases in the immunocompromised host.
Host transcription factors exploited by HIV-1. Role of FoxP3 in blocking transcriptional activation of HIV-LTR in T-Reg cells
Pyrimidine and purine metabolism and drug action
Biostatistical Analysis How health communication and engagement with communication technologies can be leveraged to reduce or eliminate health disparities.
Criminal justice and substance abuse populations, including HIV + patients
HV-related stigma Discovery of effective interventions for severe addiction
Social determinants of health, health-related quality of life (epilepsy, HIV/AIDS), spirituality/religion, minority health
Mental health and addiction services, homelessness, runaway and street youth, evidence-based practice, group interventions, GIS

Regulation of Macrophage IL-10 Production Postinjury via β 2 Integrin Signaling and the P38 MAP Kinase Pathway

Molecular mechanisms of angiogenesis; transplantation biology; wound repair

HIV Kidney Transplantation

Infectious Diseases