

Support of Competitive Research Program (*SCORE*)

2016

List of Grantees *by State*

as of June 20, 2016

*Center for Research Capacity Building
NIGMS/NIH*

DIRFLECTORY

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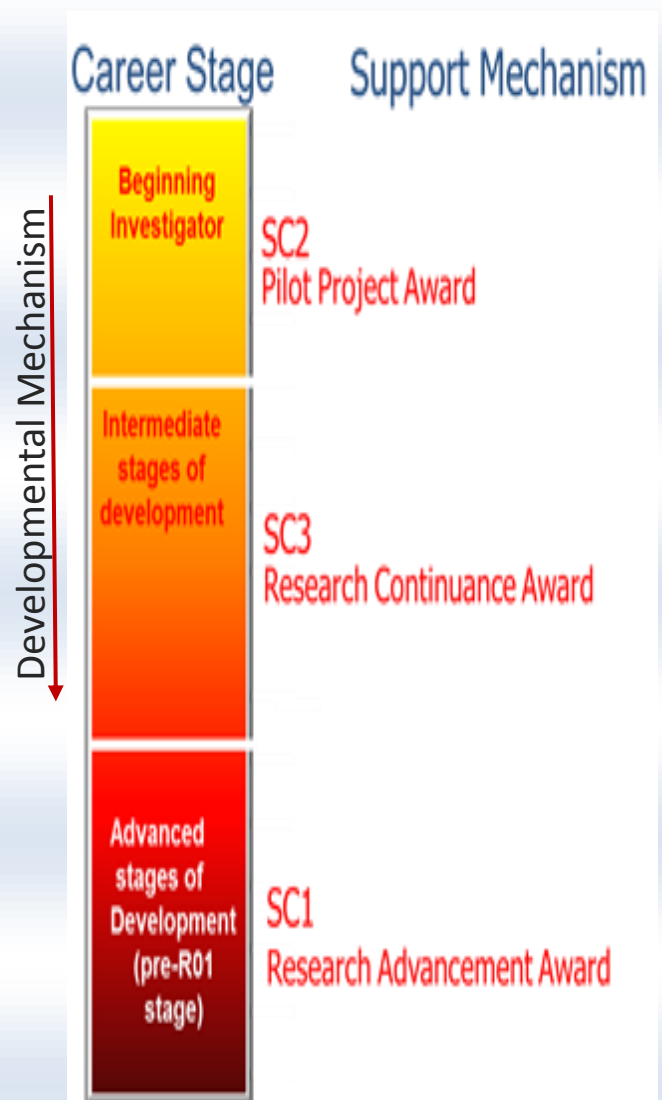
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Support of Competitive Research Advancement Awards (SCORE)

SCORE is a developmental program that aims to increase the research competitiveness of faculty at institutions that have a historical mission focused on serving and training students from diverse backgrounds, underrepresented in biomedical research. The National Science Foundation has defined the following groups as underrepresented in biomedical research: African Americans, Hispanic Americans, American Indians, Alaska Natives, Native Hawaiians, U.S. Pacific Islanders and persons with disabilities. The SCORE Program offers separate funding opportunities for individual investigator-initiated research awards. The mechanisms used for these funding opportunities are the SC1 (PAR-14-019), SC2 (PAR-14-017) and SC3 (PAR-14-018) awards. Research proposed under any of the investigator-initiated SCORE award mechanisms must fall within the scope of the NIH mission.

This directory gives the information on awardees who received full or partial support from SCORE in FY 2016.



Contact: Dr. Hinda Zlotnik

Link: <http://www.nigms.nih.gov/research/crcb/SCORE/Pages/default.aspx>

Location of SCORE Institutions



ALABAMA

SC1ES019355

**Mechanism of Estrogen-Induced Penile Dysfunction and Loss of Fertility
Tuskegee University**

Principal Investigator

Hari Om Goyal

Tuskegee University

Department of Biomedical Sciences

Tuskegee, AL 36088

Tel: 334-727-8465

Fax: 334-727-8177

E-mail: GOYALHO@TUSKEGEE.EDU

Research Area

reproductive physiology, fertility

ALABAMA

SC3GM109314

**Quercetin as an Enhancer of the Efficacy of 5-FU in Mouse Models of
Colon Cancer**

Tuskegee University

Principal Investigator

Temesgen Samuel

Tuskegee University

1200 West Montgomery Road

College of Vet. Med, NAH

Pathobiology Dept.

Williams-Bowie Hall Room 2019

Tuskegee, AL 36088

Tel: 334-724-4547(office) / 334-724 4671 (lab)

Fax: 334-724-4110

E-mail: tsamuel@mytu.tuskegee.edu

Research Area

cancer therapeutics and drug response; bioactivities of small molecule drugs and natural compounds; bio-based nano-structured materials for drug delivery

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ALABAMA

SC1DK094972

**A Physiological Role of Gastrin Releasing Peptide in the Control of Meal Size
Tuskegee University**

Principal Investigator

Ayman I. Sayegh

Department of Biomedical Sciences

College of Veterinary Medicine

Tuskegee, AL 36088

Tel: 334-727-8149

Fax: 334-727-8177

E-mail: sayeghai@mytu.tuskegee.edu

Web:

http://www.onemedicine.tuskegee.edu/Biomedical_Sciences/Faculty/Ayman.pdf

Research Area

control of food intake, nutrition

ALASKA

SC2GM112570

Evaluating a Raphé Chemosensory Amplifier Network with Multi-Channel Array Recording

University of Alaska Fairbanks

Principal Investigator

Michael B. Harris

Rm 311 Irving I

902 North Koyukuk Drive

Institute of Arctic Biology

Room 311, Irving I

Fairbanks, AK 99775-7000

Tel: 907-474-7801

Fax: 907-474-6050

E-mail: mbharris@alaska.edu

Web: http://faculty.iab.uaf.edu/michael_harris

Research Area

neuroscience, chemoreception

CALIFORNIA

SC3GM100854

Immunodulation by *Bordetella pertussis* of Lymphocytes Trafficking to the Lungs

San Jose State University

Principal Investigator

Tzvia Abramson

One Washington Square

San Jose, CA 95192

Tel: 4089244872

Fax: 4089244840

E-mail: tzvia.abramson@sjsu.edu

Research Area

Immunology, emerging infectious diseases

CALIFORNIA

SC3GM09541

**Effect of Intense Multimodal Training on Bone Mineral Density, Body Composition, and Quality of Life in Persons with Spinal Cord Injury
California State University, San Marcos**

Principal Investigator

Todd Anthony Astorino

Department of Kinesiology

California State University, San Marcos

333 S. Twin Oaks Valley Rd,

San Marcos, CA 92096-0001

Tel: 760-750-7351

Fax: 760-750-3237

E-mail: astorino@csusm.edu

Research Area

spinal cord injury, metabolism and human performance, chronic disease and organ systems

CALIFORNIA

SC3GM098207

**Tumor-Targeting *Salmonella* Expressing Apoptosis-Inducing
Cytotoxic Proteins**

California State University, Northridge

Principal Investigator

David Bermudes

California State University, Northridge

Department of Biology

18111 Nordhoff St.

Northridge, CA 91330-8303

Tel: 818-677-6062

Fax: 818-677-2034

E-mail: david.bermudes@csun.edu

Web:

<http://www.csun.edu/science-mathematics/biology/david-bermudes>

Research Area

microbiology, experimental cancer therapeutics, chimeric proteins, protease inhibitors

CALIFORNIA

SC2CA200520

**Novel Hyperpolarized Agents for Metabolic Imaging of Cancer
San Francisco State University**

Principal Investigator

Kelvin L. Billingsley

San Francisco State University

Department of Chemistry and Biochemistry

Thornton Hall Room 806

1600 Holloway Avenue

San Francisco, CA 94132

Tel: 617-253-0828

Fax: 617-253-3297

E-mail: klbillin@sfsu.edu

Research Area

bioengineering, diagnostic radiology, cancer

CALIFORNIA

SCGM112532

**Nanobodies for the Detection and Neutralization of
Listeria monocytogenes
California State University Fresno**

Principal Investigator

Cory Brooks

California State University Fresno

Science Building

Department of Chemistry

Room 342

2555 E. San Ramon Ave., MS SB70

Fresno, CA 93740

Tel: 559-278-2311

E-mail: cbrooks@csufresno.edu

Research Area

biotechnology, digestive diseases, emerging infectious diseases, nanobodies

CALIFORNIA

SC3GM113810

**Epigenetic Marks and Leaf Aging in *Arabidopsis*
California State University Long Beach**

Principal Investigator

Judy Ann Brusslan

California State University Long Beach

Departmentt of Biological Science

1250 Bellflower Blvd.

Long Beach, CA 90840-9502

Tel: 562-985-8133

Fax: 562- 985-8878

E-mail: Judy.Brusslan@CSULB.EDU

Research Area

biotechnology, genetics, epigenetic process, plants

CALIFORNIA

SC2GM118267

**Feedback in Organelle Size Regulation
San Francisco State University**

Principal Investigator

Mark Chan

San Francisco State University

Department of Biology

Rm 668A

1600 Holloway Avenue

San Francisco, CA 94132

Tel: 415-405-2864

E-mail: yhmchan@sfsu.edu

Research Area

organelle size and morphology, cell- by-cell function, computational imaging analysis, cell biology, fluorescence microscopy

CALIFORNIA

SC3GM096943

**Regulatory Network of a Conserved Polar Factor in *Sinorhizobium meliloti*
San Francisco State University**

Principal Investigator

Joseph Chiung-Chu Chen

Department of Biology

1600 Holloway Ave

San Francisco, CA 94132

Tel: 415-405-2762

Fax: 415-338-2295

E-mail: chenj@sfsu.edu

Web: <http://biology.sfsu.edu/people/joseph-chen>

Research Area

molecular microbiology, bacterial genetics, microbial physiology, plant-microbe interactions

CALIFORNIA

SC3GM095415

Ru(II)-diimine Labeled P450 Mutants for the Selective Hydroxylation of Substrate C-H bond

San Jose State University

Principal Investigator

Lionel Cheruzel

Department of Chemistry

San Jose State University

One Washington Square

DH 518

San Jose, CA 95192-0101

Tel: 408-924-5283

Fax: 408-924-4945

E-mail: lionel.cheruzel@sjsu.edu

Web: <http://www.sjsu.edu/cheruzel/>

Research Area

bioinorganic chemistry; hybrid cytochrome P450 enzymes with covalently attached photosensitizer; light-driven P450 enzymes; photochemistry

CALIFORNIA

SC2GM116745

***In Vitro* and In-cell Investigation of the Acid-stress Chaperone HdeA
California State University, Northridge**

Principal Investigator

Karin A. Crowhurst

California State University Northridge

Dept. Chemistry & Biochemistry

18111 Nordhoff St., MC 8262

Northridge, CA 913308262

Tel: 818-677-4288

E-mail: karin.crowhurst@csun.edu

Research Area

digestive diseases, immune system, protein-protein interaction, activities of
disordered proteins

CALIFORNIA

SC3GM111118

**The Role of MicroRNAs in Vertebrate Muscle Development
San Francisco State University**

Principal Investigator

Carmen Domingo

San Francisco State University

Department of Biology

1600 Holloway Ave.

San Francisco, CA 94132

Tel: 415-338-6995

E-mail: cdomingo@sfsu.edu

Web: <http://biology.sfsu.edu/people/carmen-domingo>

Research Area

vertebrate embryology, miRNA, musculoskeletal system, developmental biology

CALIFORNIA

SC3GM103699

**Signaling Crosstalk Controlled by a Mad Phosphoserine Code
California State University, Los Angeles**

Principal Investigator

Edward Eivers

California State University, Los Angeles

5151 State University Drive

Los Angeles CA 90032

Tel: 323-34-32075

E-mail: eeivers@calstaa.edu

Research Area:

cell signaling and developmental biology, genetics, signal transduction

CALIFORNIA

SC3GM084721

Defining the Connections Between Respiratory Chain Structure and Oxidative Stress

California State University, San Marcos

Principal Investigator

Matthew Escobar

Department of Biological Sciences

California State University San Marcos

333 S. Twin Oaks Valley Rd.

San Marcos, CA 92096

Tel: 760-750-8083

Fax: 760-750-3063

E-mail: mescobar@csusm.edu

Web: <http://faculty.csusm.edu/escobar/>

Research Area

plant molecular biology and genomics; respiratory metabolism

CALIFORNIA

SC3GM103748

**Fast Kinetic Investigations of Nitric Oxide Synthase
San Francisco State University**

Principal Investigator

Raymond Esquerra

1600 Holloway Ave.

Department of Chemistry and Biochemistry

San Francisco CA 94132

Tel: 415-338-3444

Fax: 415-338-2384

E-mail: esquerra@sfsu.edu

Research Area

biophysical spectroscopy, time-resolved spectroscopy, heme protein dynamics, gaseotransmitter signaling, nitric oxide synthase,

CALIFORNIA

SC3GM093858

**Recruitment of End-Processing Factors in DSB Repair
California State University Northridge**

Principal Investigator

Paula Louise Fischhaber

Department of Chemistry and Biochemistry

California State University Northridge

18111 Nordhoff St

Northridge, CA 91330-8262

Tel: 818-677-4503

Fax: 818-677-4691

E-mail: paula.fischhaber@csun.edu

Web:

<http://www.csun.edu/science-mathematics/chemistry-biochemistry/paula-fischhaber>

Research Area

protein biochemistry of DNA repair

CALIFORNIA

SC3GM111146

**Complement and Macrophage Polarization in Atherosclerosis
California State University Long Beach**

Principal Investigator

Deborah Ann Fraser

*Department of Biological Sciences
California State University Long Beach
1250 Bellflower Blvd.
Long Beach, CA 90840*

Tel: 562-985-7597

Fax: 562-985-8878

E-mail: Deborah.fraser@csulb.edu

Web: <http://web.csulb.edu/depts/biology/research.htm>

Research Area

innate immune complement proteins in health and disease, molecular biology

CALIFORNIA

SC3GM103739

**Genetic and Molecular Mechanisms of Ethanol-Induced Developmental Defects
San Jose State University**

Principal Investigator

Rachael Louise French

Washington Square

San Jose, CA, 95192-0100

Tel: 408-924-4894

Fax: 408-924-4840

E-mail: rachael.french@sjsu.edu

Research Areas

genetic models of human disease, behavioral genetics, developmental biology,
developmental toxicology

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CALIFORNIA

SC2GM095428

**Systemic Responses to Tissue Damage and Regeneration
San Francisco State University**

Principal Investigator

Megumi Fuse

Department of Biology, SFSU

1600 Holloway Ave

San Francisco, CA 94132

Tel: 415-405-0728

Fax: 415-338-1130

E-mail: fuse@sfsu.edu

Web: <http://userwww.sfsu.edu/fuse/>

Research Area

insect endocrinology and neurobiology

CALIFORNIA

SC1GM112560

Env7 as a Conserved Member of a Novel Kinase Cascade Regulating Membrane Fusion

California State University Long Beach

Principal Investigator

Editte Gharakhanian

California State University Long Beach

Department of Biological Sciences

1250 Bellflower Blvd

Long Beach, CA 90840-3903

Tel: 562-985-4803

Fax: 562-985-8878

E-mail: EGHARA@CSULB.EDU

Web: <http://web.csulb.edu/labs/GharakhanianLab/>

Research Area

cell biology, lysosomal trafficking, biogenesis and function

CALIFORNIA

SC2GM111144

**Microproteomic Analysis of Laser Capture Microdissected Cells Forming TNTs
California State University, Fresno**

Principal Investigator

Karine Gousset

Department of Biology

College of Science and Math

California State University, Fresno

2555 East San Ramon Avenue M/S SB73

Fresno, CA 93740-8034

Tel: 559-278-5802

Fax: 559-278-3963

E-mail: kgousset@csufresno.edu

Web:

http://zimmer.csufresno.edu/~kgousset/Gousset_Lab/Welcome.html

Research Area

tunneling nanotube formation and function, host-pathogen interactions, viral pathogenesis

CALIFORNIA

SC3GM092298

**Bioactive Lipids in Food and Pharmaceutical Products
California State University Long Beach**

Principal Investigator

Eric J. Haas-Stapleton

California State University Long Beach

Biological Sciences

1250 Bellflower Blvd

Long Beach, CA 90840

Tel: 510-326-4948

Fax: 510-326-4948

E-mail: ehaas@csulb.edu

Web: <http://web.csulb.edu/~ehaas/home.html>

Research Area

insect virology and immunity, immunoregulatory lipids

CALIFORNIA

SC3GM105579

Elucidating the Function of the Lipid-Binding Protein OBI-1 In *Pristionchus pacificus* Chemosensation

California State University Northridge

Principal Investigator

Ray L. Hong

Biology Department

18111 Nordhoff St.

Northridge, CA, 91330-8303

Tel: 818-677-3347

E-mail: ray.hong@csun.edu

Web: <https://rayhonglab.wordpress.com>

Research Area

genetics of nematode development and chemosensation

CALIFORNIA

SC3GM113767

**Pilot Study of the Efficacy of Mifepristone in Males with
Type 2 Diabetes Mellitus**

Charles R. Drew University of Medicine and Science

Principal Investigator

Stanley Hsia

Charles R. Drew University of Medicine and Science

1731 East 120th Street

Los Angeles, CA 90059-3025

Tel: 323-563-4800

Fax: 323-563-5867

E-mail: stanleyhsia@cdrewu.edu

Research Area

diabetes, pathophysiology, treatment

CALIFORNIA

SC2GM109811

Functional Studies of Antidepressant Exposure During Adolescence on the Brain

California State University San Bernardino

Principal Investigator

Sergio Diaz Iniguez

Department of Psychology

5500 University Parkway

San Bernardino, CA 92407

Tel: 909-537-3587

E-mail: iniguez@csusb.edu

Web: http://psychology.csusb.edu/facultyStaff/sergio_iniguez.htm

Research Area

neurobiology of depression, developmental psychopharmacology, behavioral neuroscience

CALIFORNIA

SC3GM94075

**A Preliminary Model of Physical Pain among Community-Dwelling
Multiethnic Older Women**

California State University Northridge

Principal Investigator

Luciana Lagana

Department of Psychology

California State University Northridge

18111 Nordhoff Street 8255

Northridge, CA 91330-8255

Tel: 818-677-2827

Fax: 818-677-2829

E-mail: Luciana.Lagana@csun.edu

Web:

<http://www.csun.edu/social-behavioral-sciences/psychology/luciana-lagana>

Research Area

pain research, women's health, ethnogeriatrics

CALIFORNIA

SC3GM087212

**Regulation of Sperm Cell Differentiation in *C. elegans*
California State Polytechnic University, Pomona**

Principal Investigator

Craig W. Lamunyon

3801 W. Temple Avenue

Pomona, CA 91768

Tel: 909-869-2273

Fax: 909-869-4078

E-mail: cwlamunyon@cpp.edu

Web: <http://www.cpp.edu/~cwlamunyon/lamunyon.shtml>

Research Area

developmental biology, antagonistic regulation

CALIFORNIA

SC3GM092301

**Non-heme Iron-Nitrosyl Complexes: Structure and NO Releasing Kinetics
California State University, Long Beach**

Principal Investigator

Lijuan Li

1250 Bellflower Blvd.

Long Beach, CA 90840

Tel: 562-985-5068

Fax: 562-985-8557

E-mail: Lijuan.li@csulb.edu

Web: <http://chemistry.csulb.edu/lijuan-li.html>

Research Area

bioinorganic chemistry, nitric oxide and its metal complexes, biological functions, kinetics

CALIFORNIA

SC2GM118202

The Crosstalk Between Arginine Methylation and Serine Phosphorylation in Histone H3

California State University Los Angeles

Principal Investigator

Cecilia Irene Zurita Lopez

5151 State University Drive

Los Angeles, CA 90032-8202

Tel: 323 343-2314

E-mail: zuritalopez@calstatela.edu

Web: <http://www.calstatela.edu/faculty/cecilia-i-zurita-lopez>

Research Area

cellular signaling, signal transduction

CALIFORNIA

SC3GM084739

**Development of a Photoreversible Ca²⁺ Chelator
to Mimic Calcium Signaling
California State University Los Angeles**

Principal Investigator

Alison McCurdy

*California State University Los Angeles
5151 State University Drive, GE 314
Los Angeles, CA 90032*

Tel: 323-343-2362

Fax: 323-343-6490

E-mail: amccurd@calstatela.edu

Web: <http://instructional1.calstatela.edu/amccurd/>

Research Area

cell biology, signaling, methods development

CALIFORNIA

SC1MH102930

**Ontogeny of Caudate-Putamen Functioning: Behavioral Relevance
California State University, San Bernardino**

Principal Investigator

Sanders A. McDougall

5500 University Parkway, SBS 425

San Bernardino, CA 92407

Tel: 909 537-5581

Fax: 909 537-7003

E-mail: smcdouga@csusb.edu

Web:

http://psychology.csusb.edu/facultystaff/Sanders_McDougall.htm

Research Area

behavior and social science, neuropsychopharmacology of basal ganglia functioning across early ontogeny, dopamine receptor systems.

CALIFORNIA

SC3GM119521

**Development of Glycodendrimers as Potential Anti-HIV Microbicide Agents
California State University Sacramento**

Principal Investigator

Katherine D. McCreynolds

California State University Sacramento

Department of Chemistry

6000 J. Street

Sacramento, CA 95819-6057

Tel: 916-278-6551

Fax: 916-278-4986

E-mail: kdmcr@csus.edu

Web: <http://www.csus.edu/chem/bios/mcreynolds.html>

Research Area

HIV/AIDS, synthesis of glycodendrimers as topical anti-HIV microbicide agents

CALIFORNIA

SC3GM095413

An Investigation of the Mechanisms by which Down-Regulation of Lipoprotein Lipase Increases Insulin Sensitivity in Muscle Cells.

California State University Northridge

Principal Investigator

Jheem D. Medh

*Department of Chemistry and Biochemistry
California State University Northridge,
Northridge, CA 91330.*

Tel: 818-677-7737

Fax: 818-677-4068

E-mail: jheem.medh@csun.edu

Web:

<http://www.csun.edu/science-mathematics/chemistry-biochemistry/jheem-medh>

Research Area

biochemistry of atherosclerosis and insulin resistance

CALIFORNIA

SC3GM081099

**Role of E4BP4 in Glucocorticoid-Evoked Lymphocyte Apoptosis
California State University Northridge**

Principal Investigator

Rheem D. Medh

Department of Biology, 18111 Nordhoff St.

Northridge CA 91330-8303

Tel: 818-677-3338

Fax: 818-677-2034

E-mail: rheem.medh@csun.edu

Web: <http://www.csun.edu/~rm77305/>

Research Area

genetics of cell death, cancer

CALIFORNIA

SC3GM118199

**Blocking Cationic Antimicrobial Peptide-Resistance in
Pseudomonas aeruginosa
San Jose State University**

Principal Investigator

Laura C. Miller Conrad

Chemistry Department

San Jose State University

1 Washington Square

San Jose, CA 95192

Tel: 408-924-4957

E-mail: laura.miller.conrad@sjsu.edu

Web: <http://www.sjsu.edu/chemistry/People/Faculty/Miller/>

Research Area

infectious diseases, inhibition of quorum sensing

CALIFORNIA

SC3GM096899

Synthesis and DNA Binding Affinity Evaluation of Novel Gilvocarcin-C-Glucosides

California State University, Northridge

Principal Investigator

Thomas Gerard Minehan

18111 Nordhoff Street, Northridge, CA 91330

Tel: 818-677-3315

Fax: 818-677-4068

E-mail: thomas.minehan@csun.edu

Web: <http://tminehan.com/Research/>

Research Area

organic synthesis and bioorganic chemistry, DNA binding ligands

CALIFORNIA

SC3GM089589

**Chiroptical Induced CPL-Based Tool as a Probe of Biological Substrates
San José State University**

Principal Investigator

Gilles Muller

Department of Chemistry

San José State University

One Washington Square

San José, CA 95192-0101

Tel: 408-924-2632

Fax: 408-924-4945

E-mail: gilles.muller@sjsu.edu

Web: <http://www.sjsu.edu/chemistry/People/Faculty/Muller/>

Research Area

inorganic chemistry and chemical biology, chiral lanthanide complexes for applications as chiroptical probes

CALIFORNIA

SC3GM105561

**Apolipoprotein E/Lipoprotein Binding Mechanism
California State University Long Beach**

Principal Investigator

Vasanthi Narayanaswami

*Department of Chemistry & Biochemistry
1250 Bellflower Blvd.*

*California State University Long Beach
Long Beach, CA 90840*

Tel: 562-985 4953

Fax: 562-985 8557

E-mail: vas.narayanaswami@csulb.edu

Web: <http://chemistry.csulb.edu/vas-narayanaswami.html>

Research Area

structure function analysis of apolipoprotein E, acquired cognitive impairment, cardiovascular disease

CALIFORNIA

SC3GM096900

**Using Vertical Treadmill Movement to Influence Human Walking
California State University, San Marcos**

Principal Investigator

Jeff Andrew Nessler

333 S. Twin Oaks Valley Rd

San Marcos, CA 92078

Tel: 760-750-7352

Fax: 760-750-3237

E-mail: jnessler@csusm.edu

Web: <http://www.csusm.edu/kinesiology/research/nessler.html>

Research Area

human gait – motor control and biomechanics, rehabilitation robotics,
sensorimotor synchronization/coupled biological oscillators

CALIFORNIA

SC3GM099559

**Influenza Nucleoprotein Interactions and Viral RNA Synthesis
California State University, San Bernardino**

Principal Investigator

Laura Lynn Newcomb

5500 University Parkway

Department of Biology

San Bernardino, CA 92407

Tel: 909-537-5542

E-mail: lnewcomb@csusb.edu

Web: <http://biology.csusb.edu/faculty/newcomb/>

Research Area

virology, molecular biology, gene expression, antivirals

CALIFORNIA

SC3GM099635

Interaction Between Alzheimer's Beta-Amyloid Peptide and Phospholipid Bilayers

California State University Northridge

Principal Investigator

Miroslav Peric

Department of Physics and Astronomy

Rm EH2003A

California State University Northridge

18111 Nordhoff St

Northridge, CA 91330-8262

Tel: 818-677-2944

Fax: 818-677-5354

E-mail: miroslav.peric@csun.edu

Web:

<http://www.csun.edu/center-for-supramolecular-studies/dr-miroslav-peric>

Research Area

experimental biophysics, Alzheimer's disease

CALIFORNIA

SC1CA165865

**Targeting pERK1/2 in Mammary Cancer Stem Cells
Charles R. Drew University of Medicine and Science**

Principal Investigator

Shehla Pervin

Department of Endocrinology

1731 E 120th Street

Los Angeles, CA 90059

Tel: 323-563-9342

E-mail: shelapervin@cdrewu.edu

Research Area

breast cancer, cell biology, signaling, therapeutic drug design

CALIFORNIA

SC1GM089648

Myostatin Regulation of Skeletal Muscle Energy Metabolism

Charles R. Drew University of Medicine and Science

Principal Investigator

Suzanne Porszasz-Reisz

1731 East 120th St Los Angeles, CA 90059-3051

Tel: 323-563-4834

Fax: 323-357-3442

E-mail: suporsza@cdrewu.edu

Web: <http://www.cdrewu.edu>

Research Area

muscle metabolism, skeletal muscle atrophy, musculoskeletal system

CALIFORNIA

SC1GM096916

**Lipid Effector Molecules of Innate Immunity: Antimicrobial Cholesteryl Esters
California State University Los Angeles**

Principal Investigator

Edith Porter

California State University Los Angeles

Department of Biological Sciences

5151 State University Drive

Los Angeles, CA 90032

Tel: 323-343-6353

Fax: 323-343-6451

E-mail: eporter@calstaa.edu

Web: <http://instructional1.calstatela.edu/eporter/>

Research Area

infectious diseases, innate mucosal immunity, antimicrobial effector molecules,
antimicrobial lipids

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CALIFORNIA

SC3GM096876

**Interface Quality Effects in Phospholipase Membrane Enzymology
California State University Northridge**

Principal Investigator

Radha Ranganathan

Department of Physics

California State University

Northridge, CA 91330

Tel: 818-677-2942

Fax: 818-677-3234

E-mail: Radha.ranganathan@csun.edu

Web: <http://www.csun.edu/faculty/profiles/radha.ranganathan>

Research Area

membrane biophysics; membrane structure effects on protein function

CALIFORNIA

SC3GM116681

**Vector Control Strategy Through Inhibition of *Aedes aegypti* Midgut Proteases
San Jose State University**

Principal Investigator

Alberto A. Rascon

San Jose State University

Department of Chemistry

One Washington Square

San Jose, CA 951920101

Tel: 408-924-4969

E-mail: alberto.rascon@sjsu.edu

Web:

<http://www.sjsu.edu/chemistry/People/Faculty/Rascon/index.html>

Research Area

infectious diseases, vector control

CALIFORNIA

SC3GM100855

**Bacillithiol Metabolism in *Staphylococcus aureus*
California State University Fresno**

Principal Investigator

Mamta Rawat

2555 E. San Ramon Ave., Science 224B

M/S SB73

Fresno, CA 93740-8034

Tel: 559-278-2003

Fax No. 559-278-3863

E-mail: mrawat@csufresno.edu

Web: <http://zimmer.csufresno.edu/~mrawat/>

Research Area

infectious diseases, antimicrobial resistance, low molecular weight thiols in bacteria, thiol dependent detoxification in bacteria

CALIFORNIA

SC3GM094051

**Predictors of Functional Ability in MCI
California State University Northridge**

Principal Investigator

Laleh Jill Razani

CSU, Northridge

Department of Psychology

18111 Nordhoff Street

Northridge, CA 91355

Tel: 818-677-4623

Fax: 818-677-2829

E-mail: jill.razani@csun.edu

Web:

<http://www.csun.edu/social-behavioral-sciences/psychology/jill-razani>

Research Area

gerontology, neuropsychology and clinical psychology

CALIFORNIA

SC2GM113727

**Identification of Genetic Mechanisms Preventing Male
Mitochondrial Inheritance
California State University Fresno**

Principal Investigator

Joseph Andrew Ross

Department of Biology

Science 326

2555 E. San Ramon M/S SB73

Fresno, CA 93740

Tel: 559-278-4074

E-mail: jross@csufresno.edu

Web: <http://zimmer.fresnostate.edu/~jross/>

Research Area

genetics, male mitochondrial transmissions

CALIFORNIA

SC3GM098217

**New Olefin Metathesis Catalysts Based on Innocuous and Abundant Metals
California State University Northridge**

Principal Investigator

Yann Schrodi

4314 Magnolia Hall

Department of Chemistry and Biochemistry

California State University Northridge

18111 Nordhoff Street

Northridge, California, 91330-8262

Tel: 818-677-2625

Fax: 818-677-4068

E-mail: yann.schrodi@csun.edu

Web:

<http://www.csun.edu/science-mathematics/chemistry-biochemistry/yann-schrodi>

Research Area

development of new olefin metathesis catalysts

CALIFORNIA

SC3GM089562

Synthesis of Gold Nanoparticle-Cored Dendrimers with Fluorophores and Antibodies: Smart Biomarkers for Cancer Treatments
California State University Long Beach

Principal Investigator

Young-Seok Shon

Department of Chemistry and Biochemistry

California State University Long Beach

1250 Bellflower Blvd.

Long Beach, CA 90840

Tel: 562-985-4466

Fax: 562-985-8547

E-mail: ys.shon@csulb.edu

Web: <http://chemistry.csulb.edu/shon>

Research Area

nanochemistry, materials science, organic chemistry

CALIFORNIA

SC1AG049682

Follistatin Promotes Browning and Influences Energy Metabolism

Charles R. Drew University of Medicine and Science

Principal Investigator

Rajan Singh

Charles R. Drew University of Medicine and Science

1731 East 120th St.

3084 Hawkins Building

Los Angeles, CA 90059

Tel: 323-563-5828.

Fax: 323-563-4887

E-mail: rajansingh@cdrewu.edu

Research Area

muscle and adipocyte metabolism, thermogenic program regulation, obesity, signaling pathway

CALIFORNIA

SC3GM099594

**Rigid-rod Peptides as Nanocarriers for Delivery of Cancer Drugs
California State University Long Beach**

Principal Investigator

Katarzyna Slowinska

1250 Bellflower Blvd.

Department of Chemistry and Biochemistry

Long Beach, CA, 90840

Tel: 562-985-5815

Fax: 562-985-8557

E-mail: katarzyna.slowinska@csulb.edu

Web: <http://slowinskalab.weebly.com/>

Research Area

biomaterials based on collagen and collagen peptides, nanocarriers, drug delivery systems

CALIFORNIA

SC3GM102051

**Splicing Regulation in Brain Sexual Differentiation
California State University Long Beach**

Principal Investigator

Houng-Wei Tsai

*Department of Biological Sciences
California State University Long Beach
1250 Bellflower Boulevard
Long Beach, CA 90840*

Tel: 562-985-5649

Fax: 562-985-8878

E-mail: Houng-Wei.Tsai@csulb.edu

Web: <http://web.csulb.edu/~htsai/index.html>

Research Area

epigenetic neuroendocrinology

CALIFORNIA

SC2GM105487

**Analysis of EGFR-dependent Sleep in *C. elegans*
California State University Northridge**

Principal Investigator

Cheryl L. Van Buskirk

18111 Nordhoff St.

Northridge CA 91330-8303

Tel: 818-677-4591

E-mail: cheryl.vanbuskirk@csun.edu

Website: <http://www.csun.edu/~cbuskirk/>

Research Area

molecular genetics of sleep behavior

CALIFORNIA

SC3GM089595

**Molecular Mechanisms of Neural Circuit Formation
San Jose State University**

**Principal Investigator
*Miri Kerensa Vanhoven***

*Department of Biological Sciences
One Washington Square
San Jose, CA 95192-0100*

Tel: 408-924-4845

E-mail: miri.vanhoven@sjsu.edu

Web: <https://sites.google.com/site/vanhovenlabsjsu/>

Research Area

neuroscience, neurological disorders, spinal cord injury

CALIFORNIA

SC2GM105504

Engineering Isobutylamine N-Hydroxylase for Applications in Antibiotic Biosynthesis

California State University, Northridge

Principal Investigator

Jessica Vey

18111 Nordhoff St.

Northridge, CA 91330-8262

Tel: 818-677-5376

Fax: 818-677-4068

E-mail: Jessica.vey@csun.edu

Web:

<http://www.csun.edu/science-mathematics/chemistry-biochemistry/jessica-vey>

Research Area

protein structure and engineering, flavin monooxygenase structure and function

CALIFORNIA

SC3GM089564

**Antimicrobial Activity of Apolipoprotein A-I
California State University Long Beach**

Principal Investigator

Paul Michiel Weers

Department of Chemistry and Biochemistry

1250 Bellflower Blvd.

Long Beach CA 90808

Tel: 562-985-4948

Fax: 562 985 8557

E-mail: paul.weers@csulb.edu

Web: <http://chemistry.csulb.edu/paul-weers.html>

Research Area

apolipoprotein structure and function

CALIFORNIA

SC3GM086249

**Identification and Molecular Basis for Efficient Antifreeze Protein Enhancers
California State University, Los Angeles**

Principal Investigator

Xin Wen

Department of Chemistry and Biochemistry

5151 State University Dr.

Los Angeles, CA 90032

Tel: 323-343-2310

Fax: 323-343-6490

E-mail: xwen3@calstaa.edu

Web: <http://www.calstaa.edu/dept/chem/wen>

Research Area

protein-ligand interaction in solution and at solid-liquid interface; protein structure, dynamics, and function upon ligand binding

CALIFORNIA

SC1CA200517

**Mechanisms Behind Hyperglycemia-Associated Breast Cancer Risk
and Progression**

Charles R. Drew University of Medicine & Science

Principal Investigator

Yong Wu

1731 E. 120th St.

Los Angeles, CA 90059

Tel: 323-563-4885

E-mail: yongwu@cdrewu.edu

Research Area

breast cancer, diabetes

CALIFORNIA

GM095419

**Design and Synthesis of Inhibitors for
Orotidine-5'-Monophosphate Decarboxylase
San Francisco State University**

Principal Investigator

Weiming Wu

Department of Chemistry & Biochemistry

San Francisco State University

San Francisco, CA 94132

Tel: 415-338-1436

Fax No. 415-338-2384

E-mail: wuw@sfsu.edu

Website: http://www.chemistry.sfsu.edu/faculty_wu/0layout.php

Research Area

bioorganic chemistry, enzymology

CALIFORNIA

SC3 GM089611

**Protease Regulation of Ovarian Recrudescence
California State University Long Beach**

Principal Investigator

Kelly Ansley Young

1220 Bellflower Blvd.

California State University Long Beach

Long Beach, California 90840

Tel: 562-985-4859

Fax: 562-985-8878

E-mail: Kelly.young@csulb.edu

Research Area

contraception/reproductive system, women's health,

CALIFORNIA

SC3GM116720

**Molecular and Cellular Profiling of Human Adipogenesis
California State Polytechnic University, Pomona**

Principal Investigator

Yuanxiang Zhao

Biological Sciences Department

3801 W. Temple Ave.

Pomona, CA 91768

Tel: 909-869-4069

Fax: 909-869-4078

E-mail: zhao@cpp.edu

Research Area

adipose tissue biology, nutrition, obesity

DISTRICT OF COLUMBIA (DC)

SC1CA199810

**Novel Nanotechnology Platform for Breast Cancer Treatment
Howard University**

Principal Investigator

Emmanuel O. Akala

Howard University

School of Pharmacy

Rm 308

2300 4th Street Northwest

Washington, DC 20059

Tel: 202-806-5896

Fax: 202-806-4636

E-mail: EAKALA@HOWARD.EDU

Web:

http://www.gs.howard.edu/gradprograms/pharm_sciences/facultybios/eakala.htm

Research Area

breast cancer, chemotherapy

DISTRICT OF COLUMBIA (DC)

SC2GM103741

**Crosstalk and the Cytoskeleton in Dendritic Cell Antigen Presentation
Howard University**

Principal Investigator

Michael W. Lipscomb

Department of Biology

Howard University

2400 Sixth St

Washington, DC 20059-0000

Tel: 267-426-523

E-mail: lipscombm@email.chop.edu

Web: <http://www.biology.howard.edu/faculty/lipscomb/lipscomb.html>

Research Area

immunology, antigen presentation

DISTRICT OF COLUMBIA (DC)

SC1GM093999

**Molecular Analyses of RECQ1 Functions in Genome Maintenance
Howard University**

Principal Investigator

Sudha Sharma

520 W St. NW, DC 20059

Tel: 202-806-9750

Fax: 202-806-7957

E-mail: sudha.sharma@howard.edu

Web:

<http://www.gs.howard.edu/graduateprograms/biochemistry/faculty/ssharma.html>

Research Area

cancer genomics, genome instability, acid metabolism, protein-protein and protein-nucleic acid interactions

DISTRICT OF COLUMBIA (DC)

SC1AI112785

In Vitro and in vivo Studies of Cytomegalovirus MIE Gene Regulation
Howard University

Principal Investigator

Qiyi Tang

Department of Microbiology
Howard University College of Medicine
Seeley Mudd Building
Room 315
520 W Street, NW
Washington, DC 20059

Tel: 202-806-3915

Fax: 202-238-8518

E-mail: qiyi.tang@howard.edu

Research Area

virology, virus-host interaction, viral gene regulation, viral transmission, viral reactivation

DISTRICT OF COLUMBIA (DC)

SC2GM105419

NsrR Regulation of the Small Noncoding RNA RybB in *Escherichia coli*

Howard University

Principal Investigator

Karl M. Thompson

A520 W Street, NW Suite 3010

Department of Microbiology

College of Medicine

Howard University

Washington, DC 20059

Tel: 202-806-4665

E-mail: karl.thompson@howard.edu

Research Area

bacterial genetics, gene regulation, small regulatory RNAs, bacterial physiology, tRNA modifications, bacterial stress response, post-transcriptional gene expression

DELAWARE

SC3GM113754

Quantitative Image Analysis Techniques for Studies of Aging Phenotypes and Age-Related Diseases

Delaware State University

Principal Investigator

Sokratis Makrogiannis

Department of Mathematical Sciences

Delaware State University

1200 N. Dupont Highway

Dover, DE 19702

Tel: 302-857-7058

E-mail: smakrogiannis@desu.edu

Web: <https://www.desu.edu/~smakrogiannis>

Research Area

biomedical imaging, age-related pathologies

FLORIDA

SC1GM1167214

**A New Approach for the Development of Novel Antipsychotic Drugs
Florida Agricultural and Mechanical University**

Principal Investigator

Seth Y. Ablordeppey

Florida Agricultural and Mechanical University

Division of Research

400 Foote Hilyer Administration Center

Tallahassee, FL 32307

Tel: 850-599-3834

Fax: 850-599-3934

E-mail: seth.ablordeppey@famu.edu

Web: <http://pharmacy.famu.edu/bluepill.php?sect=includes/faculty-staff/faculty/basic-science/ablordeppey/ablordeppey>

Research Area

brain disorders, mental health

FLORIDA

SC3GM096903

Computational Investigations of Monomeric Variants of Red Fluorescent Proteins

Florida International University

Principal Investigator

Prem P. Chapagain

11200 SW 8th ST,

Department of Physics

CP 204

Miami, FL 33199

Tel: 305-348-6266

Fax: 305-348-6700

E-mail: chapagap@fiu.edu

Web: <http://www.fiu.edu/~chapagap>

Research Area

computational and theoretical biophysics

FLORIDA

SC1CA190505

**Disrupting Polyisoprenylated Protein Function for Lung Cancer Therapy
Florida A&M University**

Principal Investigator:

Nazarius S. Lamango

College of Pharmacy and Pharmaceutical Sciences

1415 South Martin Luther King, Jr. Blvd.

Tallahassee, FL 32307

Tel: 850 412-7377

Fax: 850 599-3347

E-mail: Nazarius.lamango@famu.edu

Web: <http://pharmacy.famu.edu/bluepill.php?sect=includes/faculty-staff/faculty/basic-science/lamango/lamango>

Research Area

role of polyisoprenylated methylated protein methyl esterase (PMPMEase) in cancer, polyisoprenylated small molecule development for targeted cancer therapy

FLORIDA

SC1GM092778

**Multiphoton Probes for Biomedical Imaging
Florida International University**

Principal Investigator

Joong Ho Moon

Department of Chemistry and Biochemistry

Florida International University

11200 SW8th St.

Miami, FL 33199

Tel: 305-348-1368

Fax: 305-348-3772

E-mail: jmoon@fiu.edu

Web: <http://faculty.fiu.edu/~jmoon/>

Research Area

biomaterials, nanoparticles, optical imaging, drug delivery, gene delivery,
biomedical sensing

FLORIDA

SC1CA161676

**Targeted Nanocarriers for Treatment of Lung Cancer
Florida A&M University**

Principal Investigator

Mandip Singh Sachdeva

College of Pharmacy

1520 Martin Luther King Blvd

Room 021, Dyson Pharmacy Building

Tallahassee, FL 32307

Tel: 850561-2790

Fax: 8505993813

Email: mandip.sachdeva@famu.edu

Web:

<http://www.pharmacy.famu.edu/bluepill.php?sect=includes/faculty-staff/faculty/basic-science/sachdeva/sachdeva>

Research area

nanotechnology, cancer drug delivery for lung, triple negative breast cancer and pancreatic cancer, topical and transdermal delivery

FLORIDA

SC2CA182842

**Second Line Breast Cancer Therapy Through a Novel Phytoantiestrogen
Florida Agricultural and Mechanical University**

Principal Investigator

Syreeta L. Tilghman

Florida Agricultural and Mechanical University

College of Pharmacy

1700 Lee Hall Drive

Tallahassee, FL 32307-3200

Tel: 850-599-3933

E-mail: syreeta.tilghman@famu.edu

Web: <http://pharmacy.famu.edu/bluepill.php?sect=includes/divisions/basic-sciences/profiles/tilghman/tilghman>

Research Area

breast cancer, therapy

FLORIDA

SC3GM113803

**Ligand Binding and Signaling State of *Anabaena* Sensory
Rhodopsin Transducer
Bethune-Cookman College**

Principal Investigator

Vishwa Trivedi

Cookman University

Rabie J. Gainous Science

714 Dr. Mary Mcleod

Bethune Blvd.

Daytona Beach, FL 32114-3099

Tel: 386-481-2688

E-mail: trivediv@cookman.edu

Research Area

biomedical information resources, signaling

FLORIDA

SC3GM096948

**Identifying Key Genes that Cause Aggressive Brain Cancer
Florida International University**

Principal Investigator

Changwon Yoo

AHC2 580 11200 SW 8th St

Miami, FL 33199

Tel: 305-348-4906

Fax: 305-348-4901

E-mail: cyoo@fiu.edu

Web: <http://stempel.fiu.edu/faculty-and-staff/people/yoo.html>

Research Area

statistical genomics / causal Bayesian network / machine learning

GEORGIA

SC3GM099663

**Mitochondrial Analysis to Detect Aggressive Behavior of Premalignant
Colorectal Neoplasia
Morehouse School of Medicine**

Principal Investigator

Felix O. Aikhionbare

720 Westview Dr. SW

Atlanta, GA 30310-1495

Tel: 404 752 1065

Fax: 404 756-1328

E-mail: faikhionbare@msm.edu

Web:

http://www.msm.edu/about_us/FacultyDirectory/Medicine/FelixAikhionbare/index.php

Research Area

cancer biology, colorectal cancer

GEORGIA

SC2GM116760

**Retinal Circadian Rhythms and Photoreceptors Viability
Morehouse School of Medicine**

Principal Investigator

Kenkichi Baba

Morehouse School of Medicine

Pharmacology and Toxicology

Research Wing 303

720 Westview Dr. SE

Atlanta, GA 30310

Tel: 404-756-8978

E-mail: bkenkichi@msm.edu

Web:

[http://www.msm.edu/about us/FacultyDirectory/PharmacologyToxicology/KenkichiBaba/index.php](http://www.msm.edu/about_us/FacultyDirectory/PharmacologyToxicology/KenkichiBaba/index.php)

Research Area

circadian biology, ocular physiology

GEORGIA

SC1AG046907

**Changes in E-S Plasticity in Aging
Morehouse School of Medicine**

Principal Investigator

Morris Benveniste

Neuroscience Institute

Morehouse School of Medicine

Atlanta, GA 30310-1495

Tel: 404-756-5792

Fax: 404-752-1041

E-mail: mbenveniste@msm.edu

Web:

http://www.msm.edu/about_us/FacultyDirectory/Neurobiology/MorrisBenveniste/index.php

Research Area

Neurophysiology, cognitive aging

GEORGIA

SC3GM113751

**Neuregulin-1 (NRG1) in Pre-ovulatory Granulosa Cell Survival
and Anti-Inflammatory Role
Morehouse School of Medicine**

Principal Investigator

Indrajit Chowdhury

Morehouse School of Medicine

720 Westview Drive, S.W.

Atlanta, GA 303101495

Tel: 404-752-1587

E-mail: ichowdhury@msm.edu

Web:

http://www.msm.edu/about_us/FacultyDirectory/ObstetricsGynecology/IndrajitChowdhury/index.php

Research Area

women's health, reproductive system

GEORGIA

SC1GM112567

**Novel Mechanisms of Immunological Priming After Circadian Disruption
Morehouse School of Medicine**

Principal Investigator

Alec J. Davidson

Neuroscience Institute

Morehouse School of Medicine

720 Westview Dr. SW

Atlanta, GA 30310

Tel: 404-752-1703

Fax: 404-752-1041

E-mail: adavidson@msm.edu

Web:

http://www.msm.edu/about_us/FacultyDirectory/Neurobiology/AlecDavidson/index.php

Research Area

environmental circadian disruption, health consequences of shift work

GEORGIA

SC1GM109861

**Degradation Mechanisms of Mammalian Circadian Clock Proteins
Morehouse School of Medicine**

Principal Investigator

Jason P. DeBruyne

Department of Pharmacology & Toxicology

Neuroscience Institute

Morehouse School of Medicine

720 Westview Dr. SW

Atlanta, GA 30310

Tel: 404-756-5228

Fax: 404-752-1164

E-mail: jdebruyne@msm.edu

Web:

http://www.msm.edu/about_us/FacultyDirectory/PharmacologyToxicology/JasonDeBruyne/index.php

Research Area

circadian clock, sleep, genetics, molecular biology

GEORGIA

SC1HL107236

**SGK1 Signaling Pathways in Vascular Remodeling
Morehouse School of Medicine**

Principal Investigator

Sharon C. Francis

*Department of Physiology / Cardiovascular Research Institute/ 720 Westview Drive
SW/RW201/Atlanta GA 30310*

Tel: 404-752-8672

Fax: 404-752-1042

E-mail: sfrancis@msm.edu

Web:

*[http://www.msm.edu/about_us/FacultyDirectory/Physiology/SharonFrancis/index.p
hp](http://www.msm.edu/about_us/FacultyDirectory/Physiology/SharonFrancis/index.php)*

Research Area

cardiovascular biology

GEORGIA

SC1A1103041

**Immunomodulation and Vaccine Optimization Against *Chlamydia*
Morehouse School of Medicine**

Principal Investigator

Qing He

720 Westview Dr. SW

Atlanta, GA 30310

Tel: 404-756-8959

Fax No: 404-752-1179

E-mail: qhe@msm.edu

Web: http://www.msm.edu/about_us/FacultyDirectory/MicrobiologyBiochemistryImmunology/QingHe/index.php

Research Area

molecular mechanisms in the parthenogenesis of chlamydial infection.

GEORGIA

SC3GM111218

**TRPM7 Channels as Novel Target for Cardiovascular Disorders
Morehouse School of Medicine**

Principal Investigator

Koichi Inoue

Morehouse School of Medicine

720 Westview Drive SW

Atlanta, GA 30310

Tel: 404-747-8167

E-mail: kinoue@msm.edu

Research Area

vascular biology, diabetes

GEORGIA

SC2GM099629

Proangiogenic MicroRNA in Microvesicles from Adipose-Derived Stem Cells

Morehouse School of Medicine

Principal Investigator

Dong Liu

720 Westview Drive, SW

Research Wing 212

Atlanta, GA 30310

Tel: 404-756-8916

Fax: 404-752-1042

E-mail: dliu@msm.edu

Web:

[http://www.msm.edu/about us/FacultyDirectory/Physiology/DongLiu/index.php](http://www.msm.edu/about_us/FacultyDirectory/Physiology/DongLiu/index.php)

Research Area

therapeutic angiogenesis and adipocyte differentiation

GEORGIA

SC2HD086066

**Discovering Novel Biomarkers Predictive of Tubal Infertility
Caused by *Chlamydia*
Morehouse School of Medicine**

Principal Investigator

Yusuf Oseobhunu Omosun

Morehouse School of Medicine

720 Westview Drive SW

Atlanta, GA 30310

Tel: 4047521705

Fax: 404-752-1179

E-Mail: yomosun@msm.edu

Web:

http://www.msm.edu/about_us/FacultyDirectory/MicrobiologyBiochemistryImmunology/YusufOmosun/index.php

Research Area

women's reproductive health, sexually transmitted disease

GEORGIA

SC2GM112549

**Metavinculin Regulation of Cell Cytoskeleton Remodeling
in Response to Substrate
Savannah State University**

Principal Investigator

Kai Shen

Savannah State University

Chemistry and Forensic Science

Drew-Griffith, Rm 229

3219 College St.

Savannah, GA 31404

Tel: 912-358-4437

Fax: 912-358-4940

E-mail: shenk@savannahstate.edu

Web: http://www.savannahstate.edu/profiles/Kai_Shen.aspx

Research Area

cardiovascular disease, protein structure and function

GEORGIA

SC1AI104993

Regulation of *Vibrio cholerae* Motility, Stress Response and Detachment from Intestinal Mucosa

Morehouse School of Medicine

Principal Investigator

Anisia J. Silva-Benitez

Morehouse School of Medicine

720 Westview Dr., SW

Atlanta, GA 30310

Tel: 404-756-6660

Fax: 404-752-1179

E-mail: asilva-benitez@msm.edu

Web:

http://www.msm.edu/about_us/FacultyDirectory/MicrobiologyBiochemistryImmunology/AnisiaBenitez/index.php

Research Area

regulation of gene expression; bacterial pathogenesis; vaccine development; cholera

GEORGIA

SC1CA193758

**Targeted Nanotherapy for Prostate Cancer
Morehouse School of Medicine**

Principal Investigator

Rajesh Singh

Morehouse School of Medicine

720 Westview Dr. SW

HG Bldg, Room B- 337

Atlanta, GA 30310

Tel: 404-756-6661

Fax: 404-752-1179

E-mail: rsingh@msm.edu

Web:

http://www.msm.edu/about_us/FacultyDirectory/MicrobiologyBiochemistryImmunology/RajeshSingh/index.php

Research Area

cancer biology, immunology and nanotechnology

GEORGIA

SC1CA18021202

**Role of CCL25-CCR9 in Prostate Cancer
Morehouse School of Medicine**

Principal Investigator

Shailesh Singh

Morehouse School of Medicine

720 Westview Dr. SW

HG Bldg, Room B- 304

Atlanta, GA 30310

Tel: 404-756-5718

Fax: 404-752-1179

E-mail: shsingh@msm.edu

Web:

http://www.msm.edu/about_us/FacultyDirectory/MicrobiologyBiochemistryImmunology/ShaileshSingh/index.php

Research Area

cancer immune-biology, chemokine directed therapeutic and role of chemokines in cancer disparity.

GEORGIA

SC3GM105576

**Understanding Non-covalent Interactions in Carbon Nanotube/anticancer
Drug Conjugates**

Albany State University

Principal Investigator:

Yixuan Wang

College Dr.

Albany, GA 31705

Tel: 229-430-7843

Fax No. 229-430-4765

E-mail: yixuan.wang@asurams.edu

Research Area:

computational chemistry, bioinformatics

GEORGIA

SC2DK096441

**KIM-1, Microparticles and Diabetic Tubular Injury
Morehouse School of Medicine**

Principal Investigator

Xueying Zhao

720 Westview Drive S.W.

Room C-342

Atlanta, GA 30310

Tel: 404-752-1902

Fax: 404-752-1045

E-mail: xzhao@msm.edu

Web:

http://www.msm.edu/about_us/FacultyDirectory/Physiology/XueyingZhao/index.php

Research Area

hypertension, diabetes and kidney damage

HAWAII

SC3GM109873

**Targeted Combination Therapy for Lung Cancer
University of Hawaii at Hilo, College of Pharmacy**

Principal Investigator

Mahavir Chougule

200 W. Kawili St.

Hilo, HI 96720

Tel: 808-981-4518

Fax No: 808-981-4520

E-mail: mahavir@hawaii.edu

Faculty Web: <http://pharmacy.uhh.hawaii.edu/cop/psc/mahavir.php>

Lab Web: <http://pharmacy.uhh.hawaii.edu/cop/labs/labmahavir.php>

Research Area

lung cancer and asthma, nanotechnology-enabled applications, multi-target based combination therapies for cancer

ILLINOIS

SC3GM099632

**Gut Circadian Clock and Melatonin Dynamics Following Major Thermal Injury
Chicago State University**

Principal Investigator

Walid M. Al-Ghoul

SCI-310

9501 S. King Drive

Chicago, IL 60628

Tel: 773-995-2443

E-mail: walghoul@csu.edu

Web: <http://www.csu.edu/NIGMS/alghoulscoreproject.htm>

Research Area

molecular and cellular interplay between inflammation and circadian clock dysregulation in disease pathogenesis

ILLINOIS

SC3GM098180

**Role of Serum Amyloid A in Interferon-Gamma Expression
and T Helper 1 Cell Differentiation**

Chicago State University

Principal Investigator

Rong Lucy He

Department of Biological Sciences, Chicago State University, Chicago, IL 60628

Tel: 773-995-2201

Fax: 773-995-3759

E-mail: rhe@csu.edu

Web: https://www.researchgate.net/profile/Rong_He5/publications

Research Area

autoimmune disease, leukocyte activation and inactivation during inflammation

LOUISIANA

SC2GM103704

Detection Strategies: Aptamer-based Target Recognition to Turn-on GOx Signaling

Xavier University of Louisiana

Principal Investigator

Mehnaaz Fatima Ali

Department of Chemistry

College of Arts and Sciences

New Orleans, LA 70125

Tel: 504-520-7378

Fax: 504-520-7985

E-mail: mali2@xula.edu

Web: <http://www.xula.edu/chemistry/profiles/mali.html>

Research Area

bioanalytical chemistry, sensors

LOUISIANA

SC3GM102050

**Formulation of Fenretinide Nanoparticles for Enhanced Bioavailability
Xavier University of Louisiana**

Principal Investigator

Levon Bostanian

College of Pharmacy

Xavier University of Louisiana

1 Drexel Drive

New Orleans, LA 70125

Tel: 504-520-7423

Fax: 504-520-7954

E-mail: lbostani@xula.edu

Web: <http://www.xula.edu/cancerresearch/Bostanian.html>

Research Area

cancer, preformulation and formulation of drug, nanotechnology

LOUISIANA

SC2GM095430

**Gene Regulation in ARMS Pathology: The role of FOXO1 in Pax3-FOXO1 DNA-binding
Xavier University of Louisiana**

Principal Investigator

Kelly Elaine Johanson

1 Drexel Dr.

New Orleans, LA 70125

Tel: 504-520-7610

Fax: 504-520-7942

E-mail: kjohanso@xula.edu

Website: <http://www.xula.edu/cancerresearch/Johanson.html>

Research Area

direct targets of Pax3-FoxO1 and Alveolar Rhabdomyosarcoma (ARMS) development; oncogenic chimeric transcription factor

LOUISIANA

SC3GM112558

**Enzyme-Based Platform Technology for Cancers Utilizing PAM:
Etiology of Novel Ami
Xavier University of Louisiana**

Principal Investigator

Neil R. Mcintyre

Xavier University of Louisiana

1 Drexel Dr.

New Orleans, LA 70125-1098

Research Area

cancer biology, therapy

LOUISIANA

SC3GM113804

**Induction of a Tumor-Hostile Breast Cancer Microenvironment by Metformin
Xavier University of Louisiana**

Principal Investigator

Christopher Williams

Xavier University of Louisiana

1 Drexel Dr

New Orleans, LA 70125-1048

Tel: 504-520-7435

E-Mail: cwilli35@xula.edu

Web: <http://www.xula.edu/cancerresearch/Williams.html>

Research Area

breast cancer, metformin-modulated inflammatory signaling,
therapeutic/chemopreventive agents

MISSISSIPPI

SC3GM094081

**Synthesis and Biological Evaluation of Natural Product Analogues
Jackson State University**

Principal Investigator

Ashton T. Hamme

Jackson State University

Department of Chemistry and Biochemistry

John A. Peoples Science Building

Room 539

1400 Lynch St

Jackson, MS 39217-0095

Tel: 601-979-3713

Fax: 601-979-3674

E-mail: ashton.t.hamme@jsums.edu

Web: <http://www.jsums.edu/chemistry/ashton-t-hamme-ii/>

Research Area

natural products and analogues, synthesis

MISSISSIPPI

SC1GM089557

**Microfluidic Mass Spectrometry Based Fast Chemical Characterization
of Exosomes**

Jackson State University

Principal Investigator

Yiming Liu

Jackson State University

Department of Chemistry and Biochemistry

John A. Peoples Science Building

Room 537

1400 Lynch St

Jackson, MS 39217-0095

Tel: 601-979-3491

Fax: 601-979-3674

E-mail: yiming.liu@jsums.edu

Web: <http://www.jsums.edu/chemistry/yi-ming-liu-2/>

Research Area

metabolic studies, methods development for disease diagnosis and therapeutic evaluation

MISSISSIPPI

SC2GM109782

**Solution Structure and Novel Inhibitors of *T. brucei* Cathepsin L
Jackson State University**

Principal Investigator

Ifedayo Victor Ogungbe

Department of Chemistry and Biochemistry

Jackson State University

1400 John R. Lynch Street

Jackson MS, USA

Tel: 601-979-3719

Fax: 601-979-3674

E-mail: Ifedayo.v.ogungbe@jsums.edu

Web: <http://www.jsums.edu/chemistry/ogunge/>

Research Area

medicinal chemistry and chemical biology

NEW MEXICO

SC3GM084809

**Synthesis of New Classes of Metal Ion Chelators for
Therapeutic Applications**

New Mexico State University

Principal Investigator

Aravamudan Gopalan

Department of Chemistry and Biochemistry

MSC 3C, New Mexico State University

P.O. Box 30001

Las Cruces, NM 88003-8001

Tel: 575-646-2589

Fax: 575-646-2649

E-mail: agopalan@nmsu.edu

Web:

<https://chemistry.nmsu.edu/people/faculty/aravamudan-s-gopalan/>

Research Area

design and synthesis of new classes of metal ion chelators, therapeutic and diagnostic applications

NEW MEXICO

SC1AI109055

**Characterization of Amino Acid Transport and Signaling in the
Mosquito Fat Body
New Mexico State University**

Principal Investigator

Immo Alex Hansen

Department of Biology

NMSU, MSC3AF

Las Cruces, NM-88003

Tel: 575-646-7719

E-mail: immoh@nmsu.edu

Web: <http://biology-web.nmsu.edu/~hansen/>

Research Area

disease vector biology, molecular physiology

NEW MEXICO

SC3GM111131

**Catalytic Multicomponent Approach to Medicinal Aromatics
New Mexico State University**

Principal Investigator

James W. Herndon

Department of Chemistry and Biochemistry

New Mexico State University

Las Cruces, NM 88003

Tel: 575-646-2487

Fax: 575-646-2649

E-mail: jherndon@nmsu.edu

Web:

<https://chemistry.nmsu.edu/people/faculty/james-w-herndon/>

Research Area

synthetic organic chemistry and organometallic chemistry, chemotherapeutics

NEW MEXICO

SC2HL126060

**Heart Healthy Microalgae Algal Production of TAGs with High Levels of PUFAs
New Mexico State University**

Principal Investigator

Francisco Omar Holguin

Department of Plant and Environmental Sciences

MSC 3Q

NMSU

P.O. Box 30003

Las Cruces, NM 88003

Tel: 575-646-5913

Fax: 575-646-6041

E-mail: frholgui@nmsu.edu

Web: <http://web.nmsu.edu/~kccarr/>

Research Area

natural products and drug discovery, plant metabolomics, algal lipid metabolism

NEW MEXICO

SC2GM099595

**Total Synthesis and Evaluation of Taumycin A and Analogs as
Chemotherapeutics
for Leukemia**

Grantee Institution: New Mexico State University

Principal Investigator

William A. Maio

New Mexico State University

Department of Chemistry and Biochemistry

1175 N. Horseshoe Dr.

Las Cruces, NM 88003

Tel: 575-646-4017

Fax: 575-646-2505

E-mail: wmaio@nmsu.edu

Web: <https://chemistry.nmsu.edu/people/faculty/william-a-maio/>

Research Area

marine natural products; organic synthesis, chemotherapeutic agent

NEW MEXICO

SC1GM092297

**Molecular Mechanisms of Neuronal-dependent Muscle Plasticity
New Mexico State University Las Cruces**

Principal Investigator

Graciela Alexandra. Unguez

Department of Biology

New Mexico State University

Las Cruces, NM 88003-3AF

Tel: 575-646-7963

Fax: 575-646-5665

E-mail: gunguez@nmsu.edu

Website: <http://wordpress.nmsu.edu/gunguez/>

Research Area

neuromuscular network, gene regulation

NEW MEXICO

SC1HD068128

The Role of Stress and FoxP2 in Adult Vocal Learning: Tests Using a Parrot Model

New Mexico State University

Principal Investigator

Timothy F. Wright

Biology Department,

MSC 3AF

New Mexico State University

Las Cruces, NM 88003

Tel: 575-646-1136

E-mail: wright@nmsu.edu

Web: <http://biology-web.nmsu.edu/~twright/>

Research Area

neural mechanisms of vocal communication

NEW MEXICO

SC1AI112786

**Bacterial Colonization and Immunogenicity in the Mosquito Gut Ecosystem
New Mexico State University**

Principal Investigator

Jiannong Xu

PO Box 30001 MSC 3AF

New Mexico State University

Las Cruces, NM 88003

Tel: 575-646-7713

Fax: 575-646-5665

E-mail: jxu@nmsu.edu

Web: <https://wordpress.nmsu.edu/jxu/>

Research Area

metagenomic and metatranscriptomic approaches, mosquito gut microbiome, mosquito physiology and vector competence

NEW MEXICO

SC2GM111170

**Characterization of Accessory Factors in Bacterial
Transition Metal Import
New Mexico State University**

Principal Investigator

Erik Yukl

New Mexico State University

Department of Chemistry and Biochemistry

1175 N. Horseshoe Dr.

Las Cruces, NM 88003

Tel: 575-646-3176

Fax: 575-646-2649

E-mail: etyukl@nmsu.edu

Web: <http://wordpress.nmsu.edu/etyukl/>

Research Area

structural and functional analysis of proteins, bacterial transition metal import

NEW YORK

SC3GM088044

**The Role of Autophagy in T Cell Immune Response
York College/The City University of New York**

Principal Investigator

Ivica Arsov

York College/CUNY

Dept. of Biology

94-20 Guy R. Brewer Blvd.

Jamaica, NY 11451

Tel: 718-262-2713

Fax: 718-262-2369

E-mail: iarsov@york.cuny.edu

Web:

http://www.york.cuny.edu/portal_college/faculty-member.2007-11-03.023618-22

Research Area

T cell development and immune response, autophagy

NEW YORK

SC2AI116566

Mechanobiology of *Neisseria* Microcolonies

Brooklyn College of the City University of New York

Principal Investigator

Nicolas Biais

Department of Biology

Brooklyn College of the City University of New York

2900 Bedford Avenue

Brooklyn, NY 11210

Tel: 718-951-5000 x6954

Fax: 718-951-4659

E-mail: nbiais@brooklyn.cuny.edu

nicolas@mechano-micro-biology.org

Web: www.mechano-micro-biology.org

Research Area

antimicrobial resistance, mechanobiology, infectious disease

NEW YORK

SC1GM110010

The Use of Optically-Active Nucleophiles in Transition Metal-Catalyzed Cross-Coupling Reactions - a Paradigm Shift in the Design of Non-Racemic Drug Candidates

The City College of the City University of New York

Principal Investigator

Mark Roger Biscoe

160 Convent Ave.

Dept. of Chemistry

New York, NY 10031

Tel: 212-650-8348

E-mail: mbiscoe@ccny.cuny.edu

Web: <http://www.sci.ccny.cuny.edu/~mbiscoe/>

Research Area

organotransition metal catalysis

NEW YORK

SC1GM086268

**NMR Studies of the Effects of Mode of Birth on Vaginal Elastin
Brooklyn College/The City University of New York**

Principal Investigator

Gregory S. Boutis

Physics Department

Brooklyn College/The City University of New York

2900 Bedford Ave.

Brooklyn, NY 11210

Tel: 718-951-5000 x 2873

E-mail: gboutis@brooklyn.cuny.edu

Web:

http://www.brooklyn.cuny.edu/web/academics/faculty/faculty_profile.jsp?faculty=929

Research Area

nuclear magnetic resonance, condensed matter physics, elastomeric proteins, elastin, silk, collagen

NEW YORK

SC2GM118234

**Identification and Characterization of Carotenoid Repair Enzymes
York College**

Principal Investigator

Louis Michael Bradbury

94 - 20 Guy R. Brewer Blvd.

Jamaica, NY 11451

Tel: 718-262-2000

E-mail: LBradbury@york.cuny.edu

Web: https://www.york.cuny.edu/portal_college/bradbury-louis

Research Area

bioinformatics, oncometabolites

NEW YORK

SC1DK103362

**Mechanical Function of Trabecular Bone: Bone Loss Assessment Beyond BMD
City College of New York**

Principal Investigator

Luis Cardoso

160 Convent Ave.

Steinman Hall ST-401

New York, NY, 10031

Tel: 212-650-7154

Fax: 212-650-6727

E-mail: cardoso@ccny.cuny.edu

Web: <http://bme.ccny.cuny.edu/people/faculty/lcardoso>

Research Area

musculoskeletal and cardiovascular biomechanics, cell mechanotransduction, instrumentation and design of medical devices, osteoporosis

NEW YORK

SC3GM105460

Role of p21 Signaling Pathway in Response to MC & DMC DNA Interstrand Crosslinks

John Jay College of Criminal Justice

Principal Investigator

Elise Champeil

524 West 59th street

NY, NY 10019

Tel: 646-557-4502

Fax: 212-621-3739

E-mail: echampeil@jjay.cuny.edu

Web: <http://elisechampeil.com/chemistry/>

Research Area

anti-cancer agent mitomycin C

NEW YORK

SC3GM081147

**A Periplasmic Global Regulator, ExoR, for Bacterial Invasion of Host Cells
Herbert H. Lehman College**

Principal Investigator

Hai-Ping Cheng

250 Bedford Park Blvd

West Shuster 303

Bronx, NY 10468-1527

Tel: 718-960-7190

Fax: 718-960-8236

E-mail: HAIPING.CHENG@lehman.cuny.edu

Web: <http://www.lehman.edu/academics/biology/fac-cheng.php>

Research Area

host-pathogen interaction, bacterial host sensing mechanism

NEW YORK

SC2AG046910

**Cognitive and Neural Bases of Memory Confidence and Accuracy
Brooklyn College**

Principal Investigator

Elizabeth Findlay Chua

Brooklyn College

2900 Bedford Ave

Brooklyn, NY 11210

Tel: 718-951-5000 x6032

Fax: 718-951-4814

E-mail: echua@brooklyn.cuny.edu

Web:

http://www.brooklyn.cuny.edu/web/academics/faculty/faculty_profile.jsp?faculty=1065

Research Area

memory and metamemory

NEW YORK

SC1CA182844

**Titanium-Gold-Based Chemotherapeutics for Prostate
and Kidney Cancer**

Brooklyn College, City University of New York

Principal Investigator

Maria Contel

Chemistry Department

Brooklyn College

2900 Bedford Avenue

Brooklyn, NY, 11210

Tel: 718-95-15000 x 2833

Fax: 718-951-4607

E-mail: mariacon@brooklyn.cuny.edu

Web: <http://userhome.brooklyn.cuny.edu/mariacon/>

Research Area

inorganic medicinal chemistry, anticancer and antimicrobial compounds based on transition metals

NEW YORK

SC2CA206194

**Theranostic Nanoparticles for Dual Modality Cancer Therapy
Brooklyn College**

Principal Investigator

Aneta Joanna Czajkowska

Brooklyn College

2900 Bedford Ave

Brooklyn, NY 11210-2850

Tel: 718-951-5000

E-mail: ACzajkowska@brooklyn.cuny.edu

Research Area

cancer, nanotechnology, chemotherapy

NEW YORK

SC3GM095437

Conformation and Multimeric Formation of G-Quadruplexed DNA: Effects of Ligand Interactions.

Brooklyn College of the City University of New York

Principal Investigator

Lesley Davenport

Department of Chemistry

Brooklyn College of CUNY

Brooklyn, NY 11210

Tel: 718-951-5000 ext. 2825

Fax: 718-951-4827

E-mail: LDvnport@brooklyn.cuny.edu

Web: <http://academic.brooklyn.cuny.edu/chem/davenport/>

Research Area

DNA G-quadruplex conformation and effects of ligand binding; time-resolved and steady-state fluorescence spectroscopic methods

NEW YORK

SC1DA034995

**A Multi-Component Approach to Extinction in Pavlovian Learning
Brooklyn College – City University of New York**

Principal Investigator

Andrew R. Delamater

Psychology Department

Brooklyn College

2900 Bedford Ave

Brooklyn, NY 11210

Tel: 718 951-5000 x6026

Fax: 718 758-8029

E-mail: andrewd@brooklyn.cuny.edu

Web: <http://academic.brooklyn.cuny.edu/psych/delam/>

Research Area

behavioral and neurobiological mechanisms of associative learning

NEW YORK

SC1MH104907

**Attention Bias Modification for Anxiety:
a Randomized Clinical Trial with Biomarkers
Hunter College, The City University of New York**

Principal Investigator

Tracy A. Dennis-Tiwary

Department of Psychology

Hunter College

The City University of New York

695 Park Avenue

New York, NY 10065

Tel: 212-650-3878

Fax: 212-650-3931

E-mail: tracy.dennis@hunter.cuny.edu

Web: <http://urban.hunter.cuny.edu/~tdennis>

Research Area

anxiety disorders, social and behavioral sciences, development of alternative treatment delivery strategies through mobile mental health "apps."

NEW YORK

SC2GM109346

**A Neurobehavioral Study of the Interactions Between Working
and Long-Term Memory
City College of New York**

Principal Investigator

Timothy Ellmore

CUNY - The City College

160 Convent Ave.

New York, NY 10031-9101

Tel: 212-650-5714

Fax: 212-650-5659

E-mail tellmore@ccny.cuny.edu

Web: <https://www.ccny.cuny.edu/profiles/timothy-ellmore>

Research Area

cognitive neuroscience of memory

NEW YORK

SC2GM116697

**Cellular Mechanisms Underlying Detoxification of Mutant Huntingtin
York College**

Principal Investigator

Lesley Rachel Emtage

York College

Department of Biology

AC-4E07 94-20 Guy R. Brewer Blvd.

Jamaica, NY 11451

Tel: 718-262-2715

E-mail: LEmtage@york.cuny.edu

Web: http://www.york.cuny.edu/portal_college/emtage-lesley

Research Area

neurodegenerative diseases, inclusion bodies

NEW YORK

SC3GM105575

Oxazolone Cycloadducts as Heterocyclic Scaffolds for Decahydroquinoline Alkaloids

The City University of New York–York College

Principal Investigator

Stephen Philip Fearnley

Department of Chemistry

CUNY–York College

94-20 Guy R. Brewer Blvd

Jamaica, NY 11451

Tel: 718-262-2660

Fax: 718-262-2652

E-mail: sfearnley@york.cuny.edu

Web: https://www.york.cuny.edu/portal_college/sfearnley

Research Area

synthetic organic chemistry: development of new synthetic methodology; bioactive natural products synthesis; mechanistic elucidation

NEW YORK

SC1CA153325

**Tumor Cell Arrest and Adhesion in the Microcirculation
The City College of the City University of New York**

Principal Investigator

Bingmei Fu

Department of Biomedical Engineering

The City College of the City University of New York

160 Convent Ave.

New York, NY 10031

Tel: 212-650-7531

Fax: 212-650-6727

E-mail: fu@ccny.cuny.edu

Web: <http://bme.ccny.cuny.edu/people/faculty/bfu>

Research Area

microcirculation, vascular biology, tumor metastasis, blood-brain barrier and drug delivery

NEW YORK

SC2HD076044

Biomarkers for Conduct Problems: Abnormal Conditioning to Punishments and Rewards

Brooklyn College of the City University of New York

Principal Investigator

Yu Gao

2900 Bedford Ave

5401 James Hall

Brooklyn, NY 11210

Tel: 718-951-5000 ext. 6033

Fax: 718-951-4814

E-mail: yugao@brooklyn.cuny.edu

Web: <http://userhome.brooklyn.cuny.edu/yugao/yugao/Home.html>

Research Area

conduct disorder, neurobiological bases of externalizing behavior in children, adolescents, and adults using psychophysiological methods, psychopathological processes

NEW YORK

SC2GM111231

Chemical Probes Targeting Polycomb Repressive Complex

2 Gene Repression

Brooklyn College

Principal Investigator

Guillermo Gerona-Navarro

2900 Bedford Avenue

Department of Chemistry

Room 351NE Brooklyn, NY 11210 Tel:

Tel: 710-951-5000x3619

E-mail: GGerona@brooklyn.cuny.edu

Web:

http://www.brooklyn.cuny.edu/web/academics/faculty/faculty_profile.jsp?faculty=1155

Research Area

bioorganic and synthetic chemistry, cancer biology

NEW YORK

SC1DC009792

**Facilitation and Competition Across Languages in Multilingual Aphasia
Lehman College, CUNY**

Principal Investigator

Mira Goral

250 Bedford Park Blvd. W.

Bronx, NY 10468

Tel: 718-960-8460

Fax: 718-960-7376

E-mail: mira.goral@lehman.cuny.edu

Web:

<http://www.lehman.edu/academics/health-human-services-nursing/speech-language-hearing-sciences/faculty-mira.php>

Research Area

acquired language disorders, aphasia, bilingualism, multilingualism

NEW YORK

SC1GM092781

The Molecular Structure of the RNA Polymerase Portal of a Bacteriophage-Reovirus

The City College of New York

Principal Investigator:

Paul Jeffrey Gottlieb

Department of Pathobiology

The Sophie Davis School of Biomedical Education

The City College of New York

160 Convent Avenue

New York, NY 10031

Tel: 212-650-7709

Fax: 212-650-7797

E-mail: pgottl@med.cuny.edu

Web: <http://www.cuny.cuny.edu/profiles/paul-gottlieb.cfm>

Research Area

virus particle assembly and respiratory virus vaccines

NEW YORK

SC1GM092282

**Structure-Activity Relationship Studies on Nantenine
Hunter College**

Principal Investigator

Wayne Wesley Harding

Department of Chemistry

Hunter College, CUNY

695 Park Avenue

New York, NY 10065

Tel: 212-772-5359

Fax: 212-772-5332

E-mail: whardi@hunter.cuny.edu

Web:

<http://www.hunter.cuny.edu/chemistry/faculty/Wayne/Wayne>

Research Area

medicinal chemistry of CNS-active agents, natural products chemistry

NEW YORK

SC1-CA187494

Emotion-Regulation, Inflammatory Processes, and Depression in Prostate Cancer Survivors

Hunter College, City University of New York

Principal Investigator

Michael A. Hoyt

Department of Psychology

695 Park Avenue

Room HN-611

New York, NY 10065

Tel: 212-396-6690

Fax: 212-772-5620

E-mail: michael.hoyt@hunter.cuny.edu

Web: <http://www.hoytcopinglab.org/>

Research Area

biobehavioral processes in cancer survivorship

NEW YORK

SC3GM105498

**Inhibition of DNA Re-replication by Cyclin/CDK and GSK-3 Kinase
in *S. cerevisiae***

Brooklyn College

Principal Investigator

Amy E. Ikui

Brooklyn College

2900 Bedford Avenue

Brooklyn, NY 112102850

Tel: 718-951-5000 (x2674)

Web: <http://amyikuigenetics.webs.com/>

Research Area

genetics, cell biology

NEW YORK

SC2DK108292

**Effects of Choline on Fetal Growth and Lipid Accretion in
Gestational Diabetes**

Brooklyn College

Principal Investigator

Xinyin Jiang

Brooklyn College

4133 Ingersoll Hall

2900 Bedford Avenue

Brooklyn, NY 11210

Tel: 718.951.5000 x3487

E-mail: xinyinjiang@brooklyn.cuny.edu

Web:

http://www.brooklyn.cuny.edu/web/academics/faculty/faculty_profile.jsp?faculty=167

Research Area

diabetes, endocrine system, intervention

NEW YORK

SC3GM105562

**Edge-on/Face-on: Trp Tripeptides Model Residue Interactions in Proteins
Brooklyn College/The City University of New York**

Principal Investigator

Laura Jeanne Juszczak

Brooklyn College

Chemistry Dept.

359 Ingersoll Hall

2900 Bedford Ave.

Brooklyn, NY 11210

Tel: 718-951-5000 x1426

Fax: 718-951-4607

E-mail: LJUZAK@brooklyn.cuny.edu

Web:

http://userhome.brooklyn.cuny.edu/ljuzak/webpages/juszczak_home.htm

Research Area

photophysics of tryptophan fluorescence using time-resolved and steady state fluorescence measurements, UV resonance Raman spectroscopy, molecular dynamics simulations and quantum mechanical calculations

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NEW YORK

SC1AI114843

Mechanism of Cellular Recognition and Entry by a Circovirus
City College of New York

Principal Investigator

Reza Khayat

City College of New York

Department of Chemistry: MR-1024

160 Convent Avenue

New York, NY 10031

Tel: 212-650-6070

E-mail: rkhayat@ccny.cuny.edu

Web: <http://www.khayatlab.org>

Research Area

virology, bacteriology, enzymology, DNA replication, structural biology, biophysics, and biochemistry

NEW YORK

SC3GM095417

**Solvation Directed Design of Flavonoid Derivatives for Caspase Inhibition
Lehman College**

Principal Investigator

Thomas Philip Kurtzman

Lehman College,

Department of Chemistry

250 Bedford Park Blvd. West

Bronx, New York 10468

Tel: 718-960-8832

E-mail: thomas.kurtzman@lehman.cuny.edu

Web: <http://www.lehman.edu/faculty/tkurtzman/>

Research Area

statistical mechanics, computational chemistry, computer aided drug design

NEW YORK

SC2GM096884

**Visualization of *in vivo* Myelin Architecture Using Nonlinear Microscopy
Hunter College**

Principal Investigator

Hyungsik Lim

Hunter College

695 Park Avenue

Room 1237hn

New York, NY 10065

Tel: 212-772-4806

E-mail: Hyungsik.Lim@hunter.cuny.edu

Web:

<http://www.hunter.cuny.edu/physics/faculty/lim/microscopy-laboratory-at-hunter-college>

Research Area

imaging technology, neuroscience

NEW YORK

SC3GM105578

Antibody Guided Cell-SELEX

The City University of New York-Lehman College

Principal Investigator

Prabodhika Mallikaratchy

Department of Chemistry

New Science Hall-Office S-4404/Lab S-4401

Lehman College-CUNY

250 Bedford Park Blvd. West

Bronx, NY 10468

Tel: 347-577-4082

Fax No: 718-960-8750

E-mail: Prabodhika.Mallikaratchy@lehman.cuny.edu

Web:

http://www.lehman.edu/academics/chemistry/prof_mallikaratchy.php

Research Area

nucleic acid aptamers

NEW YORK

SC1NS000001

**Regulation of Myelination by Myosin II-mediated Mechanotransduction
Hunter College**

Principal Investigator

Carmen V. Melendez-Vasquez

Hunter College

Department of Biological Sciences

Room 912 North

695 Park Avenue

New York, NY 10065

Tel: 212-7724594

Fax: 212-7725227

E-mail: melendez@genectr.hunter.cuny.edu

Web: <http://melendez.bioweb.hunter.cuny.edu>

Research Area

cell biology of myelinating glia

NEW YORK

SC2GM099596

Synthetic and Biological Studies of Understudied Antitubercular

Natural Products

CUNY Brooklyn College

Principal Investigator

Ryan Murelli

2900 Bedford Ave.

Brooklyn, NY 11210

Tel: 617-943-3900

Fax: 718-951-4607

E-mail: rpmurelli@brooklyn.cuny.edu

Web: <http://userhome.brooklyn.cuny.edu/rpmurelli/index.html>

Research Area

organic chemistry, chemical biology, medicinal chemistry

NEW YORK

SC3GM111194

Polysaccharide-Polyamine Hydrogels

Herbert H. Lehman College

Principal Investigator

Naphtali Andre O'Connor

Herbert H. Lehman College

Chemistry Department

Davis Hall 326

250 Bedford Park Blvd.

New York, NY 10468

Tel: 949-295-5172

E-mail: naphtali.oconnor@lehman.cuny.edu

Web:

<http://www.lehman.edu/academics/chemistry/prof-oconnor.php>

Research Area

bioengineering, therapeutics

NEW YORK

SC2HD086868

Neuropsychological Functioning in Childhood ADHD: A Diffusion Modeling Approach

City College Of New York

Principal Investigator

Sarah Christine O'Neill

City College Of New York

North Academic Center 7/114B

160 Convent Avenue

New York, NY 10031

Tel: 212-650-5701

E-mail: soneill2@ccny.cuny.edu

Web: <https://www.ccny.cuny.edu/profiles/sarah-oneill>

Research Area

behavioral and social science, mental health

NEW YORK

SC1GM095402

**Translating TCRA Locus Control Region Activity to T Cell
Gene Therapy Vectors
Hunter College**

Principal Investigator

Benjamin D. Ortiz

Department of Biological Sciences

City University of New York

Hunter College

695 Park Avenue

Room 927N

New York, NY 10065

Tel: 212-772-5670

Fax: 212-772-5227

E-mail: ORTIZ@GENECTR.HUNTER.CUNY.EDU

Web:

*[http://biology.hunter.cuny.edu/index.php?option=com_content&view=article&id=87
&Itemid=103](http://biology.hunter.cuny.edu/index.php?option=com_content&view=article&id=87&Itemid=103)*

Research Area

gene regulation, T cell engineering

NEW YORK

SC1AI104994

**Development and Maintenance of Thymic Epithelial Microenvironments
The City College of New York**

Principal Investigator

Mark Pezzano

CCNY Dept. of Biology

160 Convent Av.

New York, NY 10031

Tel: 212-650-8559, 8577, 8300

Fax: 212-650-7989

E-mail: mpezzano@ccny.cuny.edu

Web: <https://www.ccny.cuny.edu/profiles/mark-pezzano>

Research Area

developmental immunology- thymic architecture and thymic epithelial development, Wnt signaling

NEW YORK

SC1AI107955

**Genome Variability and Population Processes of
Lyme Disease Pathogens
Hunter College of City University of New York**

Principal Investigator

Weigang Qiu

Department of Biological Sciences

Hunter College

695 Park Avenue

New York, NY 10065

Tel: 212-396-7007

Fax: 212-772-5227

E-mail: weigang@genectr.hunter.cuny.edu

Web: <http://diverge.hunter.cuny.edu/labwiki/>

Research Areas

Borrelia burgdorferi (Lyme disease pathogen); evolution, comparative genomics, population genetics; phylogenetic analysis; bioinformatics

NEW YORK

SC3GM111133

**Pathogenic Yeast Stress Signaling Networks
John Jay College of Criminal Justice**

Principal Investigator

Jason Malcolm Rauceo

John Jay College of Criminal Justice

445 West 59th Street 4246 NH

New York, NY 10019

Tel: 646-557-4893

Fax: 212-237-8318

E-mail: JRAUCEO@jjay.cuny.edu

Research Area

infectious agents, novel antifungal agents, gene regulation

NEW YORK

SC3GM113782

Modeling Photoreceptor Migration in Biomimetic Microenvironments to Optimize Transplantation

Herbert H. Lehman College

Principal Investigator

Stephen M. Redenti

250 Bedford Park Blvd.

W. Biology, Davis 217

Bronx, NY 10468

Tel: 718-960-2236

E-mail: Stephen.Redenti@lehman.cuny.edu

Web:

<http://www.lehman.edu/academics/biology/fac-redenti.php>

Research Area

stem cells, tissue engineering, eye disease and disorders of vision

NEW YORK

SC1DC015907

Neuronal Ensembles During Development of Tonotopic Maps in the Auditory System

City College Of New York

Principal Investigator

Adrian Rodriguez-Contreras

160 Convent Avenue

Biology Department

Marshak Hall

Room 526

New York, NY 10031

Tel: 212-650-5899

E-mail: arodrig@sci.ccny.cuny.edu

Web: <http://www.sci.ccny.cuny.edu/biology/Rodriguez-Contreras/>

Research Area

neuroscience, developmental biology, auditory systems

NEW YORK

SC1HL104638

**Genetic and Epigenetic Regulation of Hematopoiesis
The City College of New York**

Principal Investigator

Shireen Saleque

Department of Biology

The City College of New York

160 Convent Avenue (MR 716)

New York, NY 10031

Tel: 212-650-8538

Fax: 212-650-8585

E-mail: ssaleque@ccny.cuny.edu

Web: <http://www.ccny.cuny.edu/profiles/Shireen-Saleque.cfm>

Research Area

genetic programs and epigenetic mechanisms involved in regulation of gene expression and determination of cellular fate and function in mammalian hematopoiesis

NEW YORK

SC1CA200518

Turning Inhibition of Translation Initiation into Cancer Therapy

Herbert H. Lehman College

Principal Investigator

Moira Sauane

Herbert H. Lehman College

Department of Biological Sciences

Science Hall 3401

250 Bedford Park Boulevard West

Bronx, NY 10468

Tel: 347-577-4085

E-mail: Moira.Sauane@lehman.cuny.edu

Web:

<http://www.lehman.edu/academics/biology/MoiraSauane.php>

Research Area

cancer, cell signaling, therapy

NEW YORK

SC2GM118275

**Regulation of Chromosome and Centrosome Inheritance by HORMA Proteins
in Meiosis**

Brooklyn College

Principal Investigator

Mara Schvarzstein

2900 Bedford Avenue

Brooklyn College

Brooklyn, NY 11210-2850

Tel: 718-951-5000

E-mail: mschvarzstein@brooklyn.cuny.edu

Research Area

genetics, cell biology

NEW YORK

SC2HL119062

**High Resolution Ultrasound Imaging Sensor Array for
Biomedical Imaging Application**

City College of New York at the City University of New York

Principal Investigator

Sang-Woo Seo

Steinman Hall

Room 502

160 Convent Ave.

New York, NY 10031

Tel: 212-650-7889

Fax: 212-650-8249

E-mail: swseo@ccny.cuny.edu

Web: <https://www.ccny.cuny.edu/profiles/sang-woo-seo>

Research Area

biomedical instrument development, optical devices and sensors

NEW YORK

SC3GM113743

**Fatty Alcohol Synthesis and Virulence in Leishmania
St. John's University**

Principal Investigator

Rachel Zufferey

8000 Utopia Parkway

Jamaica, NY 11439

Tel: 718-990-8226

E-mail: zufferer@stjohns.edu

Web: <http://www.stjohns.edu/academics/bio/rachel-zufferey>

Research Area

vector-borne diseases, molecular and cell biology

NEW YORK

SC2GM100783

**Total Synthesis of Anticancer Agent Strongylophorine-26 and Studies Directed to Understanding the Structural Requirements for its Anti-metastatic Activity
Hunter College, CUNY**

Principal Investigator

Shengping Zheng

695 Park Ave

Chemistry Department

Hunter College

New York, NY 10065

Tel: 212-396-6322

Fax: 212-772-5532

E-mail: szh0007@hunter.cuny.edu

Web:

<http://www.hunter.cuny.edu/chemistry/faculty/Zheng/Shengping>

Research Area

natural products chemistry, synthetic methodologies

NORTH CAROLINA

SC2CA176585

Development of a Novel Targeted-Therapy for Treatment of Basal-Like Breast Cancer

North Carolina Central University

Principal Investigator

Jodie Michelle Fleming

1801 Fayetteville St.

Mary Townes Science Complex

Room 2247

Durham, NC 27707

Tel: 919-530-6216

Fax: 919-530-7776

E-mail: jodie.fleming@nccu.edu

Web: <https://sites.google.com/site/drjodiemfleming/>

Research Area

breast cancer health disparities, breast cancer and extracellular matrix interactions, lactation physiology, obesity and mammary function, environmental toxins and mammary function

NORTH CAROLINA

SC3GM116667

**Identification and Confirmation of Blood-Brain Barrier (BBB) Permeability of Chemical Enhancers of Nerve Growth Factor-Dependent Neurite Outgrowth
North Carolina Central University**

Principal Investigator

Gordon C. Ibeanu

Department of Pharmaceutical Sciences

BRITE Institute

302 E. Lawson Street

Durham, NC 27707

Tel: 919-530-6711

Fax: 919-530-6600

E-mail: gibeanu@nccu.edu

Web: http://brite.nccu.edu/Dr_Ibeanu

Research Area

acquired cognitive impairment, neurodegenerative diseases, molecular mechanisms and development of novel therapeutics

NORTH CAROLINA

SC3GM096875

**The Role of Bovine Sperm Acrosomal Membrane-Matrix Complex
in Fertilization**

Fayetteville State University

Principal Investigator

Subir K. Nagdas

1200 Murchison Road

Fayetteville, NC 28301

Tel: 910-672-2073

E-mail: snagdas@uncfsu.edu

Web:

<http://www.uncfsu.edu/chemistry/faculty-and-staff/subir-nagdas>

Research Area

reproductive biology, mammalian fertilization

NORTH CAROLINA

SC2GM113784

**Global Analysis of Redox Modification on Protein Kinase Function
North Carolina Agricultural & Technical State University**

Principal Investigator

Robert Howard Newman

1601 E. Market St.

Barnes 105

Greensboro, NC 27411

Tel: 336-285-2189

E-mail: rhnewman@ncat.edu

Research Area

biological redox reactions

NORTH CAROLINA

SC3GM88134

**Enhancing *in vitro* Antimicrobial Activity of Common Antibiotics
with Cyclopeptides**

Winston-Salem State University

Principal Investigator

Maria Ngu-Schwemlein

601 M.L. King, Jr. Drive

Winston-Salem, NC 27110

Tel: 336-750-2919

Fax: 336-750-2549

E-mail: schwemleinmn@wssu.edu

Web:

<https://www.wssu.edu/profile/dept/chem/schwemleinmn/default.aspx>

Research Area

peptides as antimicrobial agents and chelating agents for toxic metal ions;
functionalization of carbon nanodots

NORTH CAROLINA

SC3GM102049

**Role of Meprins in Ischemia Reperfusion Induced Renal Injury
North Carolina A&T State University**

Principal Investigator

Elimelda Moige Onger

Department of Biology

1601 E Market Street

Greensboro, NC 27411

Tel: 336-285-2182

Fax: 336-334-7501

E-mail: eonger@ncat.edu

Research Area

mechanisms underlying acute and chronic kidney injury

NORTH CAROLINA

SC3GM105572

**Design, Development and Biological Evaluation of Praziquan (PZQ)
Analogues: Investigation into their Activity for the Treatment of
Schistosomiasis
North Carolina Central University**

Principal Investigator

Alfred L. Williams

1801 Fayetteville St.

BRITE Building

Room 2011

Durham, NC 27707

Tel: 919-530-6706

Fax: 919-530-7940

E-mail: awilliams@nccu.edu

Web: [http://brite.nccu.edu/Dr A Williams](http://brite.nccu.edu/Dr_A_Williams)

Research Area

natural product synthesis, drug discovery

NORTH CAROLINA

SC3GM113728

**Studying Interface Behavior of Blood and Degradable Magnesium Stent
North Carolina Agricultural & Technical State University**

Principal Investigator

Yeoheung Yun

North Carolina Agricultural & Technical State University

College of Engineering

Chemical, Biological and Bioengineering

1601 E Market St IRC 119

Greensboro, NC 27455

Tel: 336-285-3226

Fax: 336-265-1153

E-mail: yyun@ncat.edu

Web:

<http://www.ncat.edu/academics/schools-colleges1/coe/cbbe/faculty-staff/Yeoheung%20Yun.html>

Research Area

biodegradable metals, assistive technology, atherosclerosis, bioengineering

NORTH CAROLINA

SC2NS082475

**Brain Pericyte and Amyloid-beta Peptide Interaction
North Carolina A&T State University**

Principal Investigator

Donghui Zhu

1601 E Market St.

McNair 329

Greensboro, NC 27411

Tel: 336-285-3699

Fax: 336-334-7904

E-mail: dzhu@ncat.edu

Web:

<http://www.ncat.edu/academics/schools-colleges1/coe/cbbe/faculty-staff/Donghui%20Don%20Zhu.html>

Research Area

neurovascular biology, cardiovascular biology, aging, dementia, biomaterial, biodegradable metals

PUERTO RICO

SC1NS095380

**Mitochondrial DNA and Ape1 in Huntington's Disease
University of Puerto Rico Medical Sciences**

Principal Investigator

Sylvette Ayala-Pena

A-335 Guillermo Arbona Irizarry Building

University of Puerto Rico Medical Sciences Campus

San Juan, PR 00936

Tel: 787-758-2525 ext. 1374

E-mail: sylvette.ayala@upr.edu

Web:

<http://connect.rtrn.net/profilesweb/ProfileDetails.aspx?From=SE&Person=1556&PersonSource=University%20of%20Puerto%20Rico>

Research Area

neurodegenerative diseases, aging, molecular biology

PUERTO RICO

SC1NS081726

Engrailed Targets and the Control of Synaptic Circuits in *Drosophila*
University of Puerto Rico - Medical Sciences Campus

Principal Investigator

Jonathan M. Blagburn

Institute of Neurobiology

201 Calle Norzagaray

San Juan, PR 00901

Tel: 787-724-2364

Fax: 787-724-1059

E-mail: jonathan.blagburn@upr.edu

Web:

<http://connect.rtrn.net/profilesweb/ProfileDetails.aspx?From=SE&Person=1606&PersonSource=University%20of%20Puerto%20Rico>

Research Area

developmental biology, auditory system, neuroscience, cell biology

PUERTO RICO

SC3GM116692

**Effects of Retinoic Acid Signaling on Retinal Ganglion Cell Survival
and Regeneration**

University of Puerto Rico Medical Sciences

Principal Investigator

Rosa E. Blanco

University of Puerto Rico Medical Sciences Campus

Box 36-5067

San Juan, PR 00936-5067

Tel: 787-758-2380

Fax: 787-766-6764

E-mail: rosa.blanco@upr.edu

Web:

<http://md.rcm.upr.edu/anatomyneurobiology/dr-rosa-e-blanco/>

Research Area

eye disease and disorders of vision, cell biology, signaling

PUERTO RICO

SC1GM109326

**Assessing the AQOL-MHS: Longitudinal Change and Clinical Applicability
University of Puerto Rico Medical Sciences**

Principal Investigator

Ligia M. Chavez

UPR Medical Sciences Campus

San Juan, PR 00936

Tel: 787-758-2380

E-mail: ligia.chavez@upr.edu

Research Area

behavioral and social science, mental health, psychometric model

PUERTO RICO

SC3GM084824

**Molecular Targets of Soy Isoflavones Regulating Breast Cancer Metastasis
University of Puerto Rico Medical Sciences Campus, San Juan, PR**

Principal Investigator

Suranganie F. Dharmawardhane

*Department of Biochemistry, School of Medicine
University of Puerto Rico-Medical Sciences Campus
610, Lab: 646, Basic Sciences Building
P.O. Box 365067
San Juan, PR 00936*

Tel: 787-758-2525 ext. 1630

Fax: 787-274-8724

E-mail: su.d@upr.edu

Web: <http://cortadita.wix.com/drsu>

Research Area

breast cancer metastasis: mechanisms and targeted inhibition

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PUERTO RICO

SC1HL123911

A Genomic Approach to Warfarin Dose Prescription in Admixed Caribbean Hispanics.

University of Puerto Rico Medical Sciences Campus

Principal Investigator

Jorge Duconge

Department of Pharmaceutical Sciences

Room 325-14

School of Pharmacy

UPR Medical Sciences Campus

PO Box 365067

San Juan, PR 00936-5067

Tel: 787-758-2525 ext. 5312, 5410

Fax: 787-767-2796

E-mail: jorge.duconge@upr.edu

Web:

<http://t1t2.rtrn.net/profilesweb/ProfileDetails.aspx?From=SE&Person=3066&PersonSource=University+of+Puerto+Rico>

Research Area

cardiovascular health disparities in Caribbean Hispanics; pharmacogenomics, personalized medicine, pharmacokinetics

PUERTO RICO

SC1CA182845

**Inherited Genetic Factors in Breast Cancer Predisposition
and Tumor Presentation**

Ponce Research Institute, Ponce Health Sciences University

Principal investigator

Julie Dutil

*395, Zona Industrial Reparada 2,
Ponce, PR 00716-2348*

Tel: 787-840-2575 ext. 2214/2218

Fax: 787-840-5698

Email: jdutil@psm.edu

Research Area

genetics and genomics of breast cancer, genetic ancestry in health disparities

PUERTO RICO

2SC3GM088032-05A1

HIV Infection of Decidual Macrophages During Suppressive Antiretroviral Therapy

Ponce University of Health Sciences

Principal Investigator

Martin D. Hill

388 Zona Ind. Reparada 2

Ponce, PR 00716-2347

Tel: 787-840-2575

Fax: 787-840-2256

E-mail: mhill@psm.edu

Research Area

human immunodeficiency virus

PUERTO RICO

SC2GM111149

**Glial Uptake of Dopamine After L-DOPA Medication
Universidad Central Del Caribe**

Principal Investigator

Mikhail Inyushin

Physiology

Universidad Central del Caribe

PO Box 60327

Bayamon, PR 00960-6032

Tel: 787 798-3001 ext.2065

E-mail: mikhail.inyushin@uccaribe.edu

Web: http://www.uccaribe.edu/research/?page_id=1232

Research Area

neurodegenerative diseases, brain disorders, molecular biology

PUERTO RICO

SC1HL118669

Mitochondrial Permeability Transition as a Target for Cardioprotection in Heart Failure

University of Puerto Rico, Medical Sciences Campus

Principal Investigator

Sabzali Javadov

A-674, Medical Sciences Campus

P.O. Box 365067

San Juan, PR 00936-5067

Tel: 787-758-2525 ext. 1-2909

Fax: 787-753-0120

E-mail: sabzali.javadov@upr.edu

Research Area

cardiac pathophysiology and biochemistry with a focus on the role of mitochondria in cardiac ischemia/reperfusion and heart failure.

PUERTO RICO

SC1GM084854

PKMzeta Involvement in Cocaine Sensitization

University of Puerto Rico, Medical Sciences Campus

Principal Investigator

Carlos A. Jiménez-Rivera

University of Puerto Rico

Department of Physiology

P.O. Box 365067

Medical Sciences Campus

San Juan, PR 00936

Tel: 787-758-2525 ext. 1676

Fax: 787-753-0120

E-mail: carlos.jimenez8@upr.edu

Research Area

neurophysiology of addiction

PUERTO RICO

SC2GM102040

Microglia Promote Dispersal of Glioma Cells Through Pyk2

Intracellular Signaling

Universidad Central del Caribe

Principal Investigator

Lilia Kucheryavykh

Avenida Laurel

Santa Juanita

Bayamon, PR, 00960

Tel: 787-798-3001 ext. 2024

Fax: 787-786-6285

E-mail: lilia.kucheryavykh@uccaribe.edu

Web: http://www.uccaribe.edu/research/?page_id=1234

Research Area

brain cancer biology

PUERTO RICO

SC2GM095410

**Gap Junction Intercellular Communication and Polyamines
Universidad Central del Caribe**

Principal Investigator

Yuriy Kucheryavykh

Department of Biochemistry

Avenida Laurel

Santa Juanita

Bayamon, PR 00956-0000

Tel: 787 798-3001 ext. 2065

Fax: 787 786-6285

E-mail: yuriy.kucheryavykh@uccaribe.edu

Web: http://www.uccaribe.edu/research/?page_id=1236

Research Area

neuronal-glia network, gap junctions, potassium channels and transporters

PUERTO RICO

SC3GM111171

**Sensitization of Breast Cancer and Cancer Stem Cell to Systemic
Therapy by Reishi**

Universidad Central del Caribe-School of Medicine

Principal Investigator

Michelle M. Martinez

P.O. Box 60327

Bayamon, PR 00960-6032

Tel: 787-798-3001 ext 2153

Fax: 787-740-4390

E-mail: mmmtz92@gmail.com or michelle.martinez@uccaribe.edu

Web: http://www.uccaribe.edu/research/?page_id=1240

Research Area

cancer biology, molecular and cellular biology, biochemistry, pharmacology

PUERTO RICO

SC1CA182846

Factors Associated with Variability in DNA Repair Capacity in their Effect on Breast Cancer

Ponce University of the Health Sciences

Principal Investigator

Jaime L. Matta

Ponce University of the Health Sciences

Urbanizacion Industrial Reparada 2

Ponce, PR 00716

Tel: 787-259-7025

Fax: 787-259-7085

E-mail: jmatta@psm.edu

Web: <http://www.mattaresearchlab.com/>

Research Area

breast cancer, DNA repair as a risk factor for breast and skin cancer, epigenetics

PUERTO RICO

SC1GM113691

Targeting Monocyte/Macrophage Cathepsin B in HIV-1

Neurocognitive Disorders

University of Puerto Rico Medical Sciences

Principal Investigator

Loyda M. Melendez

University of Puerto Rico Medical Sciences

Department of Microbiology

PO Box 365067

San Juan, PR 00935

Tel: 787-758-6132

Fax: 787-777-0078

E-mail: loyda.melendez@upr.edu

Web: <http://md.rcm.upr.edu/micro/loyda-m-melendez-ph-d/>

Research Area

HIV pathogenesis, neuroscience, proteomics

PUERTO RICO

SC3GM116684

Effect of Low-Intensity Versus Moderate-Intensity Endurance Exercise on Physical Functioning Among Breast Cancer Survivors: A Randomized Controlled Trial

University of Puerto Rico Medical Sciences

Principal Investigator

Ana L. Mulero-Portela

University of Puerto Rico Medical Sciences

PO Box 365067

San Juan, PR 00936

Tel: 787-765-2144

E-mail: ana.mulero@upr.edu

Research Area

breast cancer, women's health, physical activity

PUERTO RICO

SC3GM106970

**Astrocytic HIV Nef Causes Learning Impairment via Inflammation
and TGF Signaling**

Ponce University of the Health Sciences

Principal Investigator

Richard J. Noel Jr.

395 Industrial Reparada, Zona 2

Ponce, PR, 00716

Tel: 787-840-2575, ext. 2202

Fax: 787-844-1980

E-mail: rnoel@psm.edu

Research Area

neurotoxicity of HIV-1 proteins that are expressed from astrocytes, HIV Nef brain-to-body inflammatory link; viral neurotoxins Vpr and Tat using our rat model

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PUERTO RICO

SC3GM116698

**Vaccine Development Against Infectious Diseases
University of Puerto Rico Medical Sciences**

Principal Investigator

Miguel Otero

Medical Sciences Campus

San Juan, PR 00935

Tel: 787-758-2525

E-mail: miguel.otero2@upr.edu

Research Area

emerging infectious diseases, vaccine development, immunology

PUERTO RICO

SC1GM086271

**New Leads Against Cancer and Infectious Diseases from
Puerto Rican Reef Species
University of Puerto Rico Rio Piedras**

Principal Investigator

Abimael D. Rodriguez

University of Puerto Rico

Department of Chemistry

PO Box 70377

San Juan, PR 00936

Tel: 787-764-0000, Ext. 4799

Fax: 787-756-8242

E-mail: abimael.rodriguez1@upr.edu

Web:

<http://chemistry.uprrp.edu/index.php?page=abimael-d-rodriguez>

Research Area

marine natural products, drug candidate development

PUERTO RICO

SC1NS077776

Synaptic Vesicle Dynamics at Excitatory Hippocampal Synapses
Universidad Central Del Caribe

Principal Investigator

Thomas Schikorski

Universidad Central Del Caribe

Laurel Ave.

Santa Juanita

Bayamon, PR 00956

Tel: 787-798-3001 x2171

E-mail: ts.uccaribe@gmail.com

Web: http://www.uccaribe.edu/research/?page_id=1258

Research Area

neuroscience, signaling

PUERTO RICO

SC1CA190504

**Development of Peptide-Conjugate Biomimics for Targeted Ti(IV)-based
Anticancer Drug Design**

University of Puerto Rico Rio Piedras

Principal Investigator

Arthur David Tinoco

University of Puerto Rico Rio Piedras

Facundo Bueso Room 143

San Juan, PR 00931

Tel: 646-924-9864

E-mail: atinoco9278@gmail.com

Web: <http://tinocolab.weebly.com/>

Research Area

bioinorganic chemistry

PUERTO RICO

SC2GM109798

**Activity-dependent Growth and Differentiation of Synaptic Boutons
Universidad Central Del Caribe**

Principal Investigator

Alexander Vasin

2U6 Avenida Laurel

Bayamon, PR 00956

Tel: 787 798 3001 ext. 2165

Fax: 7879667140

E-mail: vasal2005@yandex.ru

Web: http://www.uccaribe.edu/research/?page_id=2203

Research Area

Neuroscience, synaptic transmission

PUERTO RICO

SC1MH090599

Randomized Trial of Prolonged Exposure for the Treatment of PTSD Among Latinos

University of Puerto Rico, Medical Sciences Campus

Principal Investigator

Mildred Vera

Center for Evaluation and Sociomedical Research

Guillermo Arbona Bldg A-430

Graduate School of Public Health

Medical Sciences Campus

University of Puerto Rico

P.O. Box 365067

San Juan, PR 00936-5067

Tel: 787-758-2525 ext. 4213, 4214

Fax: 787-767-4146

E-mail: mildred.vera@upr.edu

Research Area

mental health treatment effectiveness, mental health service disparities

PUERTO RICO

SC3GM116713

**Towards the Development of Novel Vav-Rac Inhibitors
University of Puerto Rico Medical Sciences**

Principal Investigator

Cornelis P. Vlaar

School of Pharmacy

Office 314 and Annex Door 325

School of Pharmacy Building

Medical Sciences Campus

San Juan, PR 00931

Tel: 787- 758-2525 X 5412

E-mail: cornelis.vlaar@upr.edu

Web: http://farmacia.rcm.upr.edu/Faculty%20Profiles/Profile_Cornelis_Vlaar.pdf

Research Area

cancer, drug development, therapy

TENNESSEE

SC1GM081146

**Mitochondrial Inner Membrane Protein Translocase in
Trypanosoma brucei
Meharry Medical College**

Principal Investigator

Minu Chaudhuri

1005 D.B. Todd Jr. Blvd.

Tel: 615 327 5726

Fax: 615 327 6072

E-mail: mchaudhuri@mmc.edu

Web:

<http://www.mmc.edu/research/researcher-profiles/chaudhuri-minu.html>

Research Area

molecular parasitology; cell biology; mitochondrial protein biogenesis

TENNESSEE

SC1CA153326

**The Aryl Hydrocarbon Receptor and Breast Cancer
Meharry Medical College**

Principal Investigator

Sakina E. Eltom

1005 Drive DB Todd Jr Blvd

Nashville, TN 37208

Tel: 615-327-5713

Fax: 615-327-6442

E-mail: seltom@mmc.edu

Web:

<http://www.mmc.edu/research/researcher-profiles/eltom-sakina.html>

Research Area

mechanisms of breast cancer metastasis

TENNESSEE

SC1089630

Estrogen-neuroprotection Due to Astroglial Glu Transporters Occurs via TGF- α/β 1.

Meharry Medical College

Principal Investigator

Eun Sook Yu Lee

1005 DB Todd Jr. Blvd.

Nashville, TN 37028

Tel: 615-327-6835

Fax: 615-321-2949

E-mail: elee@mmc.edu

Web:

<http://www.mmc.edu/research/researcher-profiles/lee-eunsook.html>

Research Area

estrogen- and selective estrogen receptor modulators-induced neuroprotection via astrocytic glutamate transporters, mechanism of manganese neurotoxicity, astrocyte in neurotoxicity and neuroprotection, regulation of glutamate transporter GLT-1 & GLAST at the transcriptional level, role of transforming growth factor-alpha/beta in estrogen-induced neuroprotection

TENNESSEE

SC1GM089269

**Characterizing a Small Molecule of *Streptococcus cristatus*
for HIV Drug Design**

Meharry Medical College

Principal Investigator

Bindong Liu

5029 Old Hospital Building

1005 Dr. D. B. Todd Blvd.

Nashville, TN 37208

Tel: 615-327-6877

Fax: 615-327-6929

E-mail: bliu@mmc.edu

Web:

<http://www.mmc.edu/research/researcher-profiles/liu-bindong.html>

Research Area

molecular mechanism of HIV-1 transmission and host innate immune response of HIV-1.

TENNESSEE

SC1NS078778

Control of Nociception in the Spinal Cord

Meharry Medical College

Principal Investigator

Sukhbir S. Mokha

Department of Neuroscience and Pharmacology

Meharry Medical College

1005 D.B. Todd Blvd

Nashville, TN 37208

Tel: 615-327-6933

Fax: 615-327-6632

E-mail: smokha@mmc.edu

Web:

<http://www.mmc.edu/research/researcher-profiles/mokha-sukhbir.html>

Research Area

neurobiology of pain and analgesia at the system, cellular and molecular levels, sex-related differences in the perception and control of pain, biological mechanisms contributing to the higher prevalence of pain syndromes in women, plasticity in the spinal cord and the trigeminal system.

TENNESSEE

SC1AI127352

Molecular Mechanisms of *Trypanosoma cruzi* Cardiopathogenesis
Meharry Medical College

Principal Investigator

Pius N. Nde

Meharry Medical College

Nashville, TN 37208

Tel: 615-327-6175

E-mail: pnde@mmc.edu

Web:

<http://www.mmc.edu/research/researcher-profiles/nde-pius.html>

Research Area

parasitology, molecular microbiology

TENNESSEE

SC2CA170244

**The Role of Annexin A6 in Breast Cancer Metastases
Meharry Medical College**

Principal Investigator

Amos Malle Sakwe

1005 DB Todd Jr. Blvd.

Nashville TN 37208

Tel: 615-327-6064

Fax: 615-327-6442

E-mail: asakwe@mmc.edu

Web:

<http://www.mmc.edu/research/researcher-profiles/sakwe-amos.html>

Research Area

cancer biology, cellular signaling

TENNESSEE

SC1CA182843

**Defining the Effects of Bortezomib on NK Cell Activation in Cancer
Meharry Medical College**

Principal Investigator:

Anil Shanker

Department of Biochemistry and Cancer Biology

Meharry Medical College School of Medicine

2005 West Basic Sciences Building,

1005 Dr. DB Todd Jr Blvd.

Nashville, TN 37208

Tel: 615 327 6460

Fax: 615 327 6442

E-mail: ashanker@mmc.edu

Web:

<http://www.mmc.edu/research/researcher-profiles/shanker-anil.html>

Research Area

tumor immunology and immunotherapy, tumor immunosurveillance, adoptive cell therapy, T cell and NK cell biology

TENNESSEE

SC1AI089073

Roles of Inflammation-Driven Chemokines in the Pathogenesis of Ovarian Cancer

Meharry Medical College

Principal Investigator

Deok-Soo Son

1005 DB Todd Jr Blvd

Nashville, TN 37208

Tel: 615-327-6501

E-mail: dson@mmc.edu

Web:

<http://www.mmc.edu/research/researcher-profiles/son-deok-soo.html>

Research Area

ovarian cancer, immunology, pathogenesis

TENNESSEE

SC1HL101431

Defective Isoforms of ApoE Induce Atherogenesis via Unfolded Protein Responses

Meharry Medical College

Principal Investigator

Hong Yang

Department of Physiology

Meharry Medical College

1005 Dr. D.B. Todd Jr. Blvd.

Nashville, TN 37208

Tel: 615-327-5772

Fax: 615-321-2949

E-mail: hyang@mmc.edu

Web:

<http://www.mmc.edu/research/researcher-profiles/yang-hong.html>

Research Area:

mechanism of atherosclerosis

TEXAS

SC3GM103713

**Characterization of Novel Anti-lymphoma Compounds with Selective Toxicity.
The University of Texas at El Paso**

Principal Investigator

Renato J. Aguilera

Department of Biological Sciences

500 W. University Dr.

El Paso, TX 79968

Tel: 915-747-6852

Fax: 915-747-6858

E-mail: raguilera@utep.edu

Web: <http://utminers.utep.edu/raguilera>

Research Area

cancer research: searching for novel compounds with selective cytotoxicity.

TEXAS

SC2GM118266

A Novel Probabilistic Methodology for Prediction of Emerging Diseases in Patients with Multiple Chronic Conditions

University of Texas San Antonio

Principal Investigator

Adel Alaeddini

Department of Mechanical Engineering

UTSA One UTSA Circle

San Antonio, TX 78249

Tel: 210-458-8747

E-mail: Adel.Alaeddini@utsa.edu

Web: http://engineering.utsa.edu/me/faculty_staff/alaeddini.html

Research Area

public health, predictive algorithm for multiple chronic conditions applications

TEXAS

SC3GM113805

**Structural Significance of Point Mutations within the Human
hsp60 Chaperonin**

University of Texas El Paso

Principal Investigator

Ricardo A. Bernal

University of Texas El Paso

El Paso, TX 79968

Tel: 915-747-5000

E-mail: rbernal@utep.edu

Web: <http://science.utep.edu/chemistry/rbernal/>

Research Area

neurodegenerative disorders, protein structure and function

TEXAS

SC2NS091009

**Novel Genetic Approaches to Evaluate Dominant Gain of Function
Toxicity in Polyglutamine Diseases
Texas A&M University, Kingsville (TAMUK)**

Principal Investigator

Rudolf A. Bohm

*Department of Biology and Health Sciences
BESB 203A*

700 University Blvd. MSC 158

Kingsville, TX 78363-8202

Tel: 361-593-3804

Fax No.: 361-593-3800

E-mail: rudolf.bohm@tamuk.edu

Research Area

genetic analysis of neuronal dysfunction

TEXAS

SC3GM098173

A Protein Synthesis System from *Pseudomonas aeruginosa* for Screening for Antibacterial Compounds

University of Texas – Pan American

Principal Investigator

James M. Bullard

Chemistry Department

SCNE 3.320

1201 W. University Dr.

Edinburg, TX 78541

Tel: 956-665-2950

Fax: 956-665-5006

E-mail: bullardj@utpa.edu

Research Area

development of protein synthesis systems from *Pseudomonas aeruginosa* to screen antibacterial compounds and drug candidate targets, structure activity relationship of analogs and bacteria in culture

TEXAS

SC1GM095426

**Role of CX3CR1 in Adaptive Immunity During Autoimmune Encephalomyelitis
University of Texas at San Antonio**

Principal Investigator

Astrid E. Cardona

Department of Biology

The University of Texas at San Antonio

San Antonio, TX 78249

Tel: 210-458-5071

Fax No.: 210-458-5029

E-mail: astrid.cardona@utsa.edu

Web:

<https://utsa.influent.utsystem.edu/en/persons/astrid-e-cardona/publications/>

Research Area:

antigen presentation, autoimmunity; *in vivo* models, genetically modified mouse strains, bone marrow transplantation, cellular immunology and molecular approaches

TEXAS

SC3GM084834

**Theoretical Investigation of Aquaporin V and Mutants
University of Texas at San Antonio**

Principal Investigator

Liao Y. Chen

One UTSA Circle

San Antonio, TX 78249

Tel: 210-458-5457

Fax: 210-458-4919

E-mail: Liao.Chen@utsa.edu

Research Area

computational and theoretical biophysics

TEXAS

SC2AI120941

Phylogenomic Framework for Virulence Studies of

***Escherichia coli* O157:H7**

University of Texas San Antonio

Principal Investigator

Mark Eppinger

RSC-SCI

One UTSA Circle

San Antonio, TX 782491644

Tel: 210-458-6276

E-mail: mark.eppinger@utsa.edu

Web: <http://www.utsa.edu/biology/faculty/MarkEppinger.html>

Research Area

emerging infectious diseases, microbial genomics

TEXAS

SC1GM118242

SC1: Functional Investigation of Neural Elements Located in a Key Brainstem Circuit that Controls Attention

University of Texas El Paso

Principal Investigator

Karine Fenelon

Department of Biological Sciences

Room 2.172, Bioscience Research Building

University of Texas at El Paso

El Paso, TX 79968

Tel: 915-747-8757

E-mail: kfenelon2@utep.edu

Web:

<http://www.academics.utep.edu/Default.aspx?tabid=70104&ID=kfenelon2>

Research Area

mental health, neuroscience

TEXAS

SC3GM095443

**The Role of Leptin in the Vascularization of the Developing
Corpus Luteum**

Texas A&M University-Kingsville

Principal Investigator

Michelle R. Garcia

700 University Blvd.

MSC 201

Kingsville, TX 78363

Tel: 361-593-3197

Fax: 361-593-3788

E-mail: kfmrg00@tamuk.edu

Web: <http://www.tamuk.edu/anws/facstaff/garcia.html>

Research Area

reproductive physiology, women's health

TEXAS

SC3GM116669

**Interaction of Mitochondrial Fusion and Transmembrane Potential in
Diabetic Cardiovascular Damage
University of Texas Rio Grande Valley**

Principal Investigator

Robert W. Gilkerson

Biology Department

1201 W. University Drive

Edinburg, TX 78539

Tel: 956-665-7838

E-mail: gilkersonrw@utpa.edu

Research Area

diabetes, cardiovascular disease, mitochondrial fusion dynamics, cellular signaling

TEXAS

SC3GM083779

**Thermodynamics and Kinetics of DNA-ligand Binding Probed
by DNA Overstretching
University of Texas Rio Grande Valley**

Principal Investigator

Andreas Hanke

*The University of Texas Rio Grande Valley
2101 Treasure Hills Blvd
Harlingen, TX 78550*

Tel: 956 882-6682

Fax: 956-882-6726

E-mail: hanke@phys.utb.edu

Web:

<http://www.utrgv.edu/physics/about/faculty/andreas-hanke/index.htm>

Research Area

cancer, biophysics, DNA ligand binding

TEXAS

SC3GM111124

**Do Assessments of Preschoolers Comprehension Processes Predict
Future Reading**

Texas A&M University-Kingsville

Principal Investigator

Brenda Hannon

700 University Blvd.

Kingsville, TX 78363

Tel: 361-593-2698

Fax No.: 361-593-2707

E-mail: Brenda.Hannon@tamuk.edu

Web:

http://www.tamuk.edu/artsci/psycsoci/faculty_profiles/hannon.html

Research Area

individual differences in the cognitive components of reading across the lifespan

TEXAS

SC3HL134642

Bioprinting of Human iPSCs to Facilitate Their Differentiation, Recruitment and Strategic Assembly to Form Engineered Cardiac Patches
University of Texas El Paso

Principal Investigator

Binata Joddar

Department of MMBME

University of Texas at El Paso

500 W University Ave

El Paso, TX, 79968

Tel: 915-747-8456

E-mail: bjoddar@utep.edu

Web: <http://engineering.utep.edu/imstel/joddar.htm>

Research Area

cardiovascular disease, stem cell based tissue engineering, biomaterials

TEXAS

SC3GM096937

**Ultra Low Power Integrated Circuits and System for Cardiac Pacemakers
University of Texas at San Antonio**

Principal Investigator

Eugene B. John

Department of Electrical and Computer Engineering

One UTSA Circle

San Antonio, TX 78249

Tel: 210-458-5590

Fax: 210-458-5947

E-mail: eugene.john@utsa.edu

Web: <http://ece.utsa.edu/contact/faculty/eugene-john.html>

Research Area

cardiac pacemakers with ultralow power circuits and systems, reduced energy consumption, optimized architecture

TEXAS

SC3 GM109817-02

**Identifying and Mapping Functional Connections of Feeding Control Neurons
in the Brain**

University of Texas at El Paso

Principal Investigator

Arshad M. Khan

UTEP Systems Neuroscience Laboratory

Department of Biological Sciences and

Border Biomedical Research Center

500 W. University Avenue

Biosciences Research Building, Room 2.170

El Paso, TX 79968

Tel: 915-747-8436

E-mail: amkhan2@utep.edu

Web: http://works.bepress.com/arshad_m_khan/

Research Area

neural circuits underlying feeding control, body weight regulation, and glucose homeostasis

TEXAS

SC3GM109853

**New Catalytic Methods for the Synthesis of Oxazine Natural Products
University of Texas at San Antonio**

Principal Investigator

Oleg V. Larionov

University of Texas at San Antonio

Department of Chemistry

One UTSA Circle

San Antonio, TX 78249

Tel: 210 458-6050.

Fax: 210 458-7428.

E-mail: oleg.larionov@utsa.edu

Web: <http://larionovgroup.com/our-team/>

Research Area

synthesis and medicinal chemistry of heterocyclic natural products

TEXAS

SC3GM105573

**Estrogen Negatively Modulates Proteoglycan-4 Expression in TMJ
University of Texas San Antonio**

Principal Investigator

Richard Gordon Lebaron

One UTSA Circle

San Antonio, TX 782491644

Tel: 210-458-5841

Fax: 210-458-5658

E-mail: RICHARD.LEBARON@UTSA.EDU

Research Area

dental/oral and craniofacial disease, cell biology

TEXAS

SC2GM103719

Title of Project: Super Resolution Pump-Probe Microscopy for Biomedical Imaging

The University of Texas at El Paso

Principal Investigator

Chunqiang Li

Department of Physics

500 W. University Ave.

El Paso, Texas 79968

Tel: 915-747-7537

Fax: 915-747-5447

E-mail: cli@utep.edu

Research Area

nonlinear optical microscopy and spectroscopy, such as two-photon fluorescence and pump-probe modalities

TEXAS

SC2GM105584

**Grafting DNA Codes on Paper for Rapid, Low-Cost, and Sensitive Meningitis
Diagnosis**

University of Texas at El Paso

Principal Investigator

Xiujun (James) Li

Department of Chemistry

University of Texas at El Paso

500 W University Ave.

El Paso, TX, 79968

Tel: 915-747-8967

Fax: 915-747-5748

E-mail: xli4@utep.edu

Research Area

bioanalysis & biomedical engineering; microfluidic lab-on-a-chip & nanosensing;
low-cost disease diagnosis; infectious diseases: meningitis, pertussis; 'tissue'-based
bioassays

TEXAS

SC3GM116737

The Regulation of Gene Expression via Epigenetic Mechanisms During Onset of Obesity, Type 2 Diabetes

Texas A&M University-Kingsville

Principal Investigator

Yi Li

Department of Human Sciences

Human Science Building, Rm 131

MSC 168 Texas A&M University-Kingsville

Kingsville, TX 78363-8202

Tel: 361-593-2204

Fax: 361-593-2230

E-mail: yi.li@tamuk.edu

Web: <http://www.tamuk.edu/hsci/facstaff/Li.html>

Research Area

obesity/type 2 diabetes, epigenetics, nutritional genomics

TEXAS

SC3GM112543

**Aberrant Epigenetic Repression in Esophageal Malignancy
University of Texas San Antonio**

Principal Investigator

Chin-Hsing Annie Lin

One UTSA Circle

San Antonio, TX 782491644

Tel: 210-458-8534

E-mail: annie.lin@utsa.edu

Web: <http://www.utsa.edu/biology/faculty/AnnieLin.html>

Research Area

cancer biology, molecular targets, biomarkers

TEXAS

SC1AI098238

**Regulation of the HIV Cofactor Activity of LEDGF/p75 by Interacting Proteins
The University of Texas at El Paso**

Principal Investigator

Manuel Llano

*Biological Sciences Department
The University of Texas at El Paso
500 West University Ave.
El Paso, TX, 79968*

Tel: 915-747-5000

Fax: 915-747.5856

E-mail: mllano@utep.edu

Research Area

identification and characterization of the mechanism of action of cellular factors implicated in HIV-1 replication

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TEXAS

SC2GM112578

Actin Filaments and Microtubules

University of Texas San Antonio

Principal Investigator

Marcelo Marucho

AET 3.374

University of Texas San Antonio

One UTSA Circle

San Antonio, TX 78249-1644

Tel: 210-458-7862

E-mail: marcelo.marucho@utsa.edu

Web: <http://physics.utsa.edu/Faculty/Marucho/Marucho.html>

Research Area

computational biology, signal transduction, biophysics

TEXAS

SC3GM111188

**Analysis of the Effects of Aversive Experience on Non-Defensive Behaviors
and Underlying Neural Circuits**

Texas A&M University - Corpus Christi

Principal Investigator

Riccardo Mozzachiodi

Department of Life Sciences

6300 Ocean Drive

Corpus Christi, TX 78412

Tel: 361-825-3634

Fax: 361-825-2742

E-mail: riccardo.mozzachiodi@tamucc.edu

Web: <http://sci.tamucc.edu/member.php?who=rmozzachiodi&program=lsci>

Research Area

cellular mechanisms of elementary forms of memory

TEXAS

SC1AI116567

Role of Cholesterol Metabolism in Pathogenesis of *Mycobacterium tuberculosis*

University of Texas at El Paso

Principal Investigator

Hugues Ouellet

500 W. University

El Paso, TX, 79968

Tel: 915-747-6607

Fax No.: 915-747-5808

E-mail: houellet@utep.edu

Research Area

Mycobacterium tuberculosis, cholesterol degradation, metabolomic, pathogenesis

TEXAS

SC3GM109785

Enhancement of Neuronal Plasticity and Axon Regeneration Capabilities of Pro-Neuronal Cells with zRICH

Texas A&M University-Kingsville

Principal Investigator

Rafael Perez-Ballester

Department of Biological and Health Science

MSC 158

700 University Blvd.

Kingsville, TX 78363

Tel: 361-593-3793, 361-593-4151

Fax: 361-593-3800

E-mail: karp002@tamuk.edu

Web: <http://users.tamuk.edu/karp002/BiochemLabTamuk.html>

Research Area

nerve regeneration in the central nervous system

TEXAS

SC1HL112629

**Role of Fluid Flow on *Chlamydia pneumoniae*-exacerbated Atherosclerosis
The University of Texas at San Antonio**

Principal Investigator

Anand K. Ramasubramanian

The University of Texas at San Antonio

Department of Biomedical Engineering

One UTSA Circle

San Antonio, TX 78249

Tel: 210-458-6555

Fax: 210-458-7007

E-mail: anand.ramasubramanian@utsa.edu

Web:

<http://engineering.utsa.edu/bme/faculty/ramasubramanian.html>

Research Area

mechanobiology of inflammation and hemostasis, high-throughput screening technologies for antimicrobial drug discovery and diagnostics

TEXAS

SC1AI098976

**Molecular Effects of SUMOylation on Influenza Virus Infection:
SUMO and NS1**

The University of Texas at El Paso

Principal Investigator

Germán Rosas-Acosta

500 West University Ave.

El Paso, TX 79968

Tel: 915-747-5122

Fax: 915-747-5808

E-mail: grosas3@utep.edu

Web: <https://sites.google.com/site/rosasacostaslaboratory/>

Research Area

infectious diseases / virology / influenza; molecular virology / molecular and cellular biology

TEXAS

SC1GM095475

**Receptor Disulfide Allosteric Regulation of Anthrax Toxin Action
University of Texas at El Paso**

Principal Investigator

Jianjun Sun

500 West University Ave.

El Paso, TX 79968

Tel: 915-747-8905

Fax: 915-747-5808

E-mail: jsun@utep.edu

Web: <http://science.utep.edu/biology/sun/>

Research Area

bacterial pathogenesis, host-pathogen interaction, toxin and surface receptor binding and action, *Mycobacterium tuberculosis*

TEXAS

SC1HL115833

**Biomarkers of Sick Sinus Syndrome
The University of Texas at San Antonio**

Principal Investigator

Liang Tang

Department of Biomedical Engineering, UTSA

1 UTSA Circle

San Antonio, TX 78249

Tel: 210-458-6557

Fax: 210-458-7007

E-mail: liang.tang@utsa.edu

Web: <http://engineering.utsa.edu/bme/faculty/tang.html>

Research Area

sick sinus syndrome (SSS), cardiac troponin I (cTnI), nanotechnology, nano-biochip, lab-on-a-chip biosensor, surface plasmon resonance

TEXAS

SC1GM111172

**CCL19 Regulation of the Secondary Immune Response
University of Texas El Paso**

Principal Investigator

Charlotte M. Vines

The University of Texas at El Paso

500 W. University Avenue

El Paso, TX 79968-0578

Tel: 915-747-8127

E-mail: CVINES@UTEP.EDU

Web:

Yous <http://www.academics.utep.edu/Default.aspx?tabid=70104&ID=cvines>

Research Area

chemokines, cell signaling, immune response

TEXAS

SC1GM100806

Systems Biology of *Plasmodium falciparum*: Building and Exploring Network Models

University of Texas at San Antonio

Principal Investigator

Yufeng Wang

Department of Biology

South Texas Center for Emerging Infectious Diseases

University of Texas at San Antonio

One UTSA Circle

Tel: 201-458-6492

Fax: 210-458-5658

E-mail: yufeng.wang@utsa.edu

Research Area

bioinformatics, systems biology, comparative genomics, infectious diseases

TEXAS

SC3GM109870

**Dissecting the Molecular Regulatory Mechanism of Mammalian
Circadian Core Component
University of Texas at El Paso**

Principal Investigator

Chuan Xiao

500 W. University Ave.

El Paso, TX 79968

Tel: 915-747-8657

Fax: 915-747-5996

E-mail: cxiao@utep.edu

Web: <http://utminers.utep.edu/cxiao/>

Research Area

molecular interactions among protein complexes; traditional biochemical and biophysical tools with X-ray crystallography and cryo-electron microscopy

TEXAS

SC3GM102018

Development of a Novel Nanoconstruct Based Photothermal Therapy for Tumor Hypoxia

Texas Southern University

Principal Investigator

Huan Xie

3100 Cleburne St

Gray Hall 119

College of Pharmacy and Health Sciences

Texas Southern University

Houston, TX77401

Tel: 713-313-4340

Fax: 713-313-4219

E-mail: xieh@tsu.edu

Research Area

tumor hypoxia, drug formulation development, drug delivery, pharmacokinetics and biodistribution studies, nanomedicine, therapy, imaging and diagnosis of cancer and bone diseases

TEXAS

SC3GM103746

Molecular Mechanism of Acrolein-Induced Vascular Toxicity:

Role of PPAR gamma

Texas Southern University

Principal Investigator

Zivar Yousefipour

College of Pharmacy and Health Sciences

3100 Cleburne Street

Houston, TX 77004

Tel: 713-313-1890/7156

Fax: 713-313-4219

E-mail: Yousefipour_zx@tsu.edu

Research Area

cardiovascular diseases, environmental pollutants, role of sodium transporters in salt-induced hypertension, aging process

TEXAS

SC1DA031962

**Alcohol, Relationships, and Risk: Women and HIV
University of Texas at San Antonio**

Principal Investigator

Tina Zawacki

Department of Psychology

1 UTSA Circle

San Antonio, TX 78249

Tel: 210-458-6580

E-mail: tina.zawacki@utsa.edu

Research Area

social-cognitive mechanisms of sexual risk taking and sexual violence.

TEXAS

SC2GM112575

**Numerical Investigation of Collective Cell Migration
University of Texas San Antonio**

Principal Investigator

Xiaowei Zeng

University of Texas San Antonio

One UTSA Circle

San Antonio, TX 78249-1644

Tel: 210-4587-698

E-mail: xiaowei.zeng@utsa.edu

Web: http://engineering.utsa.edu/me/faculty_staff/Zeng.html

Research Area

computational mechanics, cell biology

TEXAS

SC1CA166016

Autoantibodies to Tumor-Associated Antigens as Diagnostic Biomarkers in Liver Cancer

The University of Texas at El Paso

Principal Investigator

Jianning Zhang

Department of Biological Sciences

The University of Texas at El Paso

500 W. University Ave.

El Paso, TX 79968

Tel: 915-747-6995

Fax No.: 915-747-5808

E-mail: jzhang@utep.edu

Webpage:

<http://academics.utep.edu/Default.aspx?tabid=70104&ID=jzhang>

Research Area

cancer biology, autoantibodies to cancer-related antigens as biomarkers, tumorigenesis pathway

VIRGINIA

SC1HL112630

**Impact of Oxidative Stress-Regulated Angiogenesis in
Pulmonary Fibrosis
Hampton University**

Principal Investigator

Neelam Azad

*Queen and Tyler Streets,
Kittrell Hall, 1st Floor Main Office
School of Pharmacy
Hampton University
Hampton, VA 23668*

Tel: 757-637-2539

Fax: 757-727-5840

E-mail: neelam.azad@hamptonu.edu

Web:

<http://pharm.hamptonu.edu/faculty/index.cfm?bio=neelam.azad>

Research Area

pulmonary fibrosis, lung carcinogenesis, cancer cell biology, oxidative stress, angiogenesis, nanotoxicology, apoptosis

VIRGINIA

SC3GM103706

**Design and Development of 5-HT₇ Receptor Agonists
Hampton University**

Principal Investigator

Mikhail L. Bondarev

School of Pharmacy

Department of Pharmaceutical Sciences

Kittrell Hall, Room 219

Hampton, VA 23668

Tel: 757-727-5870

Fax: 757-727-5840

E-mail: mikhail.bondarev@hamptonu.edu

Web: <http://pharm.hamptonu.edu/faculty/index.cfm?bio=mikhail.bondarev>

Research Area

medicinal chemistry, design and development of novel CNS receptor ligands,
serotonergic system

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VIRGINIA

SC1CA173069

**Anti-Tumorigenic Potential of Novel Digitoxin Analogues
Hampton University**

Principal Investigator

Anand K. Iyer

School of Pharmacy

Kittrell Hall

Room 214

Queen and Tyler Streets

Hampton, VA 23668

Tel: 757-728-6768

Fax: 757-727-5840

E-mail: ANAND.IYER@HAMPTONU.EDU

Web: <http://directory.hamptonu.edu/index.cfm?bio=anand.iyer>

Research Area

cancer cell biology, apoptosis, autophagy, senescence, lung carcinogenesis, pulmonary fibrosis, structural bioinformatics and rational drug design.

VIRGINIA

SC3GM096947

**Modulation of PKC Response and Insulin Secretion by the
Beta Subunit of Calcium Channels
Norfolk State University**

Principal Investigator

Ganesan Lenin Kamatchi

Department of Biology

700 Park Ave.

Norfolk, VA 23504

Tel: 757-823-2327

Fax: 757-823-2000

E-mail: glkamatchi@nsu.edu

Research Area

diabetes, obesity, calcium channels and anesthetics

VIRGINIA

SC3GM109332

**Polymer-drug Conjugate Micelles for Treating Resistant Prostate Cancers
Hampton University**

Principal Investigator

Feng Li

Hampton University School of Pharmacy

Room 216, Kittrell Hall

Queen and Tyler Streets

Tel: 757-727-5585

Fax: 757-727-5840

E-mail: feng.li@hamptonu.edu

Web: <http://directory.hamptonu.edu/index.cfm?bio=feng.li>

Research Area

nanotechnology-based drug delivery, prostate cancer, tumor targeting pH-responsive polymer-drug conjugate micelles

VIRGINIA

SC3GM116782

**Role of MAP Kinase Signaling in Development of
Cerebral Cavernous Malformations**

Hampton University

Principal Investigator

John D. Mably

100 E. Queen Street

Hampton, VA 23668-0108

Tel: 757-728-6057

E-mail: john.mably@hamptonu.edu

Web: <http://www.mablylab.org/members/PI>

Research Area

developmental biology, cardiovascular biology, animal model