

## LINCATS-12 Mentor Pool

Mentor Name	Department	Specialty/ies (list all)
Anissa Abi-Dargham MD	Psychiatry and Behavioral Health	Brain Imaging, Clinical and Translational Research in Schizophrenia and substance abuse disorders, psychopharmacology, proof of concept mechanistic trials
Olga Aroniadis MD, MSc	Medicine - Division of Gastroenterology and Hepatology	Studying non-conventional therapies for the treatment of patients with functional GI diseases
Wadie Bahou MD	Medicine - Division of Hematology and Oncology	Genetics of Hemostasis, thrombosis, and platelet disorders
Gabor Balazsi PhD	Laufer Center for Physical and Quantitative Biology; Biomedical Engineering	Synthetic biology, cancer biology, biological physics
Jorge Benach PhD	Microbiology and Immunology	Pathogenesis and host response of Spirochete infections
Agnieszka Bialkowska PhD	Medicine - Division of Gastroenterology and Hepatology	Gut physiology & pathophysiology; Pancreatic cancer; Development of therapeutics
Danny Bluestein PhD	Biomedical Engineering	Biofluids and Cardiovascular Pathologies
Paolo Boffetta MD	Family, Population and Preventive Medicine	Population Science
Elizabeth Boon PhD	Chemistry	Nitric oxide sensing and signaling in bacteria
Eszter Boros PhD	Chemistry	Diversity of metal complexes paired with properties for the design of new metal-based molecular imaging probes
Eric Brouzes Ph.D.	Biomedical Engineering	Develop technologies to enable single cell genomics, where genetic information is gleaned cell by cell and with spatial information
Stephanie Brown PhD	Psychiatry and Behavioral Health	Biological and evolutionary bases of altruism and their applications to medicine
Nicholas Carpino PhD	Microbiology and Immunology	Regulation of host immune responses
Carol Carter PhD	Microbiology and Immunology	HIV Replication; Coronavirus Assembly; Anti-Viral Drug Development
Jiang Chen MD	Pathology; Dermatology	Skin development, diseases, and cancers
Christopher Clarke PhD	Medicine - Division of Hematology and Oncology	Oncogenic reprogramming of sphingolipid metabolism as a driver of anoikis resistance and metastasis; Targeting sphingolipid metabolism to reduce doxorubicin cardiotoxicity without interfering with its anti-cancer effects.

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Sean Clouston PhD	Family, Population and Preventive Medicine	Social determinants of lifelong differences in the risk of cognitive decline and the onset of Alzheimer's disease and related dementias
Holly Colognato PhD	Pharmacological Sciences	Cell and molecular neuroscience
Ramana Davuluri PhD	Biomedical Informatics	Bioinformatics; Cancer Genomics; Isoform-level Gene Regulation; Epigenetics; Alternative Promoters and Alternative Splicing
Maurizio Del Poeta MD	Microbiology and Immunology	Pathogenesis and host response of fungal infections
Christine DeLorenzo PhD	Psychiatry and Behavioral Health; Biomedical Engineering	Positron
Bruce Demple PhD	Pharmacological Sciences	Oxidative DNA damage and repair; genetic toxicology
Ken Dill SB, SM, PhD	Laufer Center for Physical and Quantitative Biology	Computational biology
Petar Djuric PhD	Electrical and Computer Engineering	Signal and information processing, machine learning
Camila dos Santos M.S., Ph.D.	Cold Spring Harbor Laboratory	Epigenetic dependencies of normal and malignant breast development; gene expression in prevention and treatment of cancer
Congwu Du PhD	Biomedical Engineering	Development of advanced optical instrumentation to detect and characterize physiological processes in living biological systems
Mikala Egeblad PhD	Cold Spring Harbor Laboratory	Tumor Microenvironment
Alfredo Fontanini MD, PhD	Neurobiology and Behavior	Neuroscience of chemical senses and motivated behavior
Bettina Fries MD	Medicine - Division of Infectious Diseases	Cryptococcus pathogenesis, antibody-based therapeutics
Michael Frohman MD, PhD	Pharmacological Sciences	Lipid signaling, breast cancer
Miguel Garcia-Diaz PhD	Pharmacological Sciences	Mechanisms of mitochondrial gene expression/ structure based-drug discovery
Grace Gathungu MD	Pediatric -Division of Gastroenterology	Celiac Disease, Crohn's Colitis, Crohn's Disease, Gastroesophageal Reflux-Peds, Obesity, Pediatric Gastroenterology
Amir Goldan PhD	Radiology	Novel medical imaging technologies

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Lauren Hale PhD	Family, Population and Preventive Medicine; Program in Public Health	Social and contextual determinants of sleep health and the consequences of sleep health on physical and mental health, Racial/ethnic disparities in sleep, School start times, Sleep during COVID-19, Science communication
John Haley PhD	Pathology	Defining and exploiting mechanisms for overcoming anti-cancer drug resistance and cancer metastasis
Marc Halterman MD, PhD	Neurology	The cellular and immune signaling pathways that lead to neural damage after stroke and cardiac arrest
Yusuf Hannun MD	Cancer Center	Lipid signaling, sphingolipids, and cancer
Patrick Hearing PhD	Microbiology and Immunology	Regulation of innate cellular responses during viral infection
Nancy Hollingsworth PhD	Biochemistry and Cell Biology	Regulation of Meiotic Recombination in Yeast
Chuan Huang PhD	Radiology	Simultaneous PET-MRI, Medical Image Reconstruction/Analysis, Neuroimaging, Objective Assessment of Image Quality
Jingfang Ju PhD	Pathology	Elucidating the mechanism of translational control mediated by non-coding RNAs in cancer and translating the new discovery to clinical cancer diagnosis and therapy
Martin Kaczocha PhD	Anesthesiology	Role of fatty acid binding proteins in pain, inflammation, and related pathophysiology: Endocannabinoid pharmacology and development of novel therapeutics
Hyungjin Kim PhD	Pharmacological Sciences	DNA damage and repair
David Komatsu PhD	Orthopaedics	Bone Biology
James Konopka PhD	Microbiology and Immunology	Candida albicans pathogenesis
Farrukh Korashy MD, PhD, FASN	Medicine - Division of Nephrology and Hypertension	Mental Health & Kidney Disease; Renal outcomes in patients with COVID-19
Roman Kotov PhD	Psychiatry and Behavioral Health	Refining the classification of mental disorders
Adrian Krainer PhD	Cold Spring Harbor Laboratory	mRNA splicing; gene expression; RNA- protein interactions; Cancer; Antisense Therapeutics
Mary Kritzer PhD	Neurobiology and Behavior	Biological sex and sex hormone determinants of cognitive function in rodent models of Parkinson's disease and other neurodegenerative disorders
Pawan Kumar BVSc, PhD	Microbiology and Immunology	Immunology

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George Leibowitz PhD	School of Social Welfare	Integrated Behavioral Health; Addictions; Opioids; Trauma and Victimization
Jerome Liang PhD	Radiology	Medical Imaging
Richard Lin MD	Physiology and Biophysics	Biology of Phosphoinositide 3-Kinases (PI3Ks)
Weiqin Lu PhD	Medicine - Division of Gastroenterology and Hepatology	Pancreatitis and Pancreatic Cancer
Chiara Luberto PhD	Physiology and Biophysics	Role and Function of Lipid signaling in cancer biology
Benjamin Luft MD	Medicine - Division of Infectious Disease; World Trade Center Program	Infectious Disease, Environmental Medicine
Erich Mackow PhD	Microbiology and Immunology	Viral Pathogenesis: Viral Regulation of Endothelial Cell Responses in Pulmonary and Neuronal Disease.
Arianna Maffei PhD	Neurobiology and Behavior	Neural plasticity, cortical development, learning
Sandeep Mallipattu MD, FASN	Medicine - Division of Nephrology and Hypertension	Investigate regulation of gene expression in kidney disease
Cungui Mao PhD	Medicine - Division of Gastroenterology and Hepatology	metabolism and signaling functions of bioactive lipids, sphingolipids in particular, in different species, such as yeast, insects, and mammals
Benjamin Martin PhD	Biochemistry and Cell Biology	Stem cell development and cancer metastasis
David Matus PhD	Biochemistry and Cell Biology	Cell cycle regulation of development and cancer
Jaymie Meliker PhD	Family, Population and Preventive Medicine; Program in Public Health	Exposure Assessment, Environmental Epidemiology, Spatial Analysis
Charles Mikell MD	Neurosurgery	Electrophysiology of consciousness, recovery of consciousness, traumatic brain injury
W. Todd Miller PhD	Physiology and Biophysics	Signal transduction
Scott Moeller PhD	Psychiatry and Behavioral Health	Study the living human brain, and to apply these techniques to clinical studies to unravel pathology associated with severe mental illnesses and drug addiction
Richard Moffitt PhD	Biomedical Informatics	Bioinformatics, Pancreatic Cancer, Electronic Health Record
Ute Moll MD	Pathology	The p53/p63/p73 gene family function and regulation in cancer
Lilianne Mujica-Parodi PhD	Biomedical Engineering	Human Neuroimaging (ultra-high-field fMRI, MRS, NIRS, M/EEG), Brain Aging

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Srinivas Myneni DDS, MS, PhD	Periodontology	Periodontal Immunology, Host Modulation, Tissue Engineering & Regeneration
Sharon Nachman MD	Pediatrics	Pediatrics, Infectious Disease, TB
Aaron Neiman PhD	Biochemistry and Cell Biology	Understanding the molecular mechanisms underlying sporulation in the baker's yeast <i>Saccharomyces cerevisiae</i>
Ming-Yu Ngai PhD	Chemistry	Developing novel and practical synthetic methodologies to address unmet challenges in organic synthesis and medicinal chemistry
Iwao Ojima PhD	Chemistry	Medicinal Chemistry, Chemical Biology and Drug Discovery
Ramin Parsey MD, PhD	Psychiatry and Behavioral Health	Brain imaging in unipolar and bipolar subjects. Clinical and genetic characterization of normal and abnormal brain function; multimodal image fusion; image methodology/ quantification
Michael Pearl MD	Obstetrics, Gynecology and Reproductive Medicine	Ovarian Cancer, Uterine Cancer
Joshua Plotkin PhD	Neurobiology and Behavior	Striatal physiology in compulsive behavior and disease
I.V. Ramakrishnan PhD	Computer Science	Artificial Intelligence, Accessible Computing, Medical Computing
Nancy Reich-Marshall PhD	Microbiology and Immunology	Cellular responses to cytokines and viral infection
David Rubenstein PhD	Biomedical Engineering	Tissue Engineering, Regenerative Medicine, Biomaterials, Bioprinting, Cardiovascular Diseases, Hematology, Platelets, Coagulation
Clinton Rubin PhD	Biomedical Engineering	Mechanical factors influencing musculoskeletal tissues
Joel Saltz MD, PhD	Biomedical Informatics	Advanced information technologies for large scale data science and biomedical/ scientific research
Nicole Sampson PhD	Chemistry	TB metabolism and drug development, multivalent polymers
Jessica Seeliger PhD	Pharmacological Sciences	Infectious disease, tuberculosis, lipid biosynthesis, membrane biology, enzymology
Markus Seeliger PhD	Pharmacological Sciences	Structural Biology of Cancer Drug mechanism

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Maya Shelly PhD	Neurobiology and Behavior	Understand the complex molecular and cellular events that establish neuronal morphology and function during embryonic brain development
Paul Shepson PhD	School of Marine and Atmospheric Sciences	Atmospheric Chemistry and climate change; Aviation; Arctic and coastal halogen chemistry; greenhouse gas source and sink measurements; atmospheric aerosols; climate change communications
Brian Sheridan PhD	Microbiology and Immunology	Understand the biology of intestinal T cell memory for application of vaccine design targeting enteric infections and gastrointestinal tumors.
Kenneth Shroyer MD, PhD	Pathology	Cancer Biomarkers
Carlos Simmerling PhD	Chemistry	Development and application of biomolecular simulation methods
Adam Singer MD	Emergency Medicine	Cutaneous wound healing, Burns, Tissue Adhesives, Pain Management, POC Blood Devices and Cardiovascular disease
Howard Sirotkin PhD	Neurobiology and Behavior	Genetic and Molecular analysis of vertebrate neural development
Steven Skiena PhD	Computer Science	Bioinformatics, synthetic biology
David Spector PhD	Cold Spring Harbor Laboratory	Cell biology, gene expression, nuclear structure, non-coding RNAs
Bruce Stillman PhD	Cold Spring Harbor Laboratory	cancer, cell cycle, DNA replication, chromatin assembly, biochemistry, yeast genetics
Alison Stopeck MD	Medicine - Division of Hematology and Oncology	Breast Cancer
Ken-Ichi Takemaru PhD	Pharmacological Sciences	Cell Signaling and Ciliogenesis in Mammalian Development, Health and Disease
Flaminia Talos MD, PhD	Urology	Stem cell biology of prostate and bladder, Urological cancers
David Thanassi PhD	Microbiology and Immunology	Secreted virulence factors of bacterial pathogens, including Escherichia coli and Francisella tularensis

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Peter Tonge PhD	Chemistry	Drug mechanism of action, drug development for cancer and infectious diseases, positron emission tomography imaging and photoreceptor mechanisms.
Stella Tsirka PhD	Pharmacological Sciences	Interactions between the nervous and immune systems
Adrianus van der Velden PhD	Microbiology and Immunology	Host interactions with bacterial pathogens
Jared Van Snellenberg PhD	Psychiatry and Behavioral Health	Understanding the neural underpinnings of psychotic and cognitive symptoms of schizophrenia and related disorders, using multimodal neuroimaging methods to measure brain activity and neurochemistry
Fusheng Wang PhD	Biomedical Informatics	Scalable Big Data Management Medical Imaging Informatics Population health Public health and opioid epidemic research Assistive technologies
Jun Wang PhD	Biomedical Engineering	Immunoengineering, cell signaling, microphysiology, microfluidics
Thomas White PhD	Physiology and Biophysics	Gap junctions in human genetic diseases
Jennie Williams PhD	Family, Population and Preventive Medicine	Dysregulation of and aberrant DNA methylation as factors influencing racial health disparity in the incidence and mortality rates of colorectal cancer
Lonnie Wollmuth PhD	Neurobiology and Behavior	Molecular mechanisms of synaptic transmission.
Stanislaus Wong PhD, AM, B.Sc.	Chemistry	Materials chemistry; inorganic nanoscience
Qiaojie Xiong PhD	Neurobiology and Behavior	Neural mechanism underlying memory and decision making
Vincent Yang MD, PhD	Medicine - Division of Gastroenterology and Hepatology	GI cancer; Stem cells; Developmental therapeutics; Mucosal immunology
Wei Yin PhD	Biomedical Engineering	Cardiovascular disease, computational fluid dynamics
Huichun Zhan MD, MS	Medicine - Division of Hematology and Oncology	Hematology
Wei Zhao Ph.D.	Radiology	Flat-panel imagers for digital x-ray imaging, Digital breast tomosynthesis, PET detectors and systems
Donghui Zhu PhD	Biomedical Engineering	Biomaterials, Tissue Engineering, Neuroscience