

Spatial and Functional Genomics Research Affinity Group Grants

Investigators in the Spatial and Functional Genomic Research Affinity are supported by the following grants.

Implicating novel microglial mechanisms of late-onset Alzheimer's disease with variant-to-gene mapping methods.

Ruth L. Kirschstein National Research Service Award (NRSA) Individual Predoctoral Fellowship (Parent F31)

PI: Elizabeth A. Burton

09/01/2021 to 09/01/2024

FAG074532A

Role: Predoctoral Fellowship

Co-sponsors: Struan F.A. Grant and Christopher D. Brown

Project Consultant: Li-San Wang

Functional Interrogation of T2D-Associated Genes in Human Stem Cell-derived Models and Mice

NIH

PI: Patrick Seale, Struan Grant, Klaus Kaestner, Daniel Rader, Benjamin Voight, Wenli Yang

08/20/2020 to 06/30/2025

UM1 DK126194-01

Genomics of Bone and Body Composition Traits in Children

NIH

PI: Babette Zemel and Struan Grant

08/07/2020 to 06/30/2025

R01 HD100406-01A1

Genome-wide Association Study for Childhood Obesity

NIH

PI: Struan F. A. Grant

07/15/2008 to 06/30/2025

R01 HD056465-11A1

Promoter interactome-aided mapping of unexplored CVID genetic landscapes

NIAID

PI: N. Romberg

07/16/2019 to 06/30/2024

R01 AI146026

Role: Co-Investigator

Functional Mechanisms of T1D Risk Variants and their Target Genes using 3D Epigenomics and Single Cell Approaches

NIDDK

PI: S. Grant, S. Rich, A. Wells

08/01/2019 to 05/31/2023

R01 DK122586

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Network-based algorithms for drug discovery from genetic associations

NHGRI

PI: C Greene

06/12/2018 to 04/30/2023

R01 HG010067

Role: Co-Investigator

Treating Chronic Viral Infection by Epigenetic Reprogramming of Exhausted CD8 T Cells

PI: Shen

09/01/2017 to 08/31/2022

R01 AI130115

Role: Co-Investigator

The major goal of this project is to study how pharmacologic histone deacetylase inhibitors reprogram exhausted CD8 T cells at the epigenomic, transcriptional, and function level. These studies do not overlap with any of the other listed projects.

Epigenetic Imprinting of Follicular Helper T Cell Fate and Function in Lupus

NIH/NIAID

PI: Laufer

09/01/2017 to 08/31/2022

R01 AI123539

Role: Co-Investigator

The major goal of this project is to establish the epigenetic mechanisms involved in the Tfh cell fate decision, and whether these processes are dysregulated in individuals genetically susceptible to lupus. These studies do not overlap with any of the other listed projects.

Elucidation of Genetic Effects on Sleep and Circadian Traits

NHLBI

PI: P. Gehrman, S. Grant, A. Keene

09/01/2018 to 06/30/2022

R01 HL143790

Integrating GWAS of Sleep and Circadian Traits with functional follow-up efforts

Variant to Gene Mapping for Alzheimer's Disease

NIA

PI: S. Grant

09/15/2017 to 06/30/2022

R01 AG057516

Decoding Methylation Mediated Epigenomic Contributions to Male Osteoporosis

NIAMS

PI: H.W. Deng

09/01/2006 to 08/31/2021

R01 ARO69055

Role: Role: Co-Investigator (S. Grant)

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Cyclin-dependent Kinases: Novel Switches in Anergy and Targets for Tolerance

NIH/NIAID

PI: A. Wells

12/01/2015 to 11/30/2020

R01 AI054643-12

The major goal of this project is to determine the mechanisms by which CDK influence T cell memory vs. tolerance, and to test these enzymes as therapeutic targets in transplantation models.

Regulation of Skeletal Growth by Nuclear Retinoid Receptors

NIH/NIAMS

PI: M. Iwamoto

12/01/2008 to 08/31/2020

R01 AR056837

Role: Co-Investigator (S. Grant)

Genome Wide Association Study for Childhood Obesity

NICHHD

PI: S. Grant

07/15/2008 to 04/30/2020

R01 HD056465

The Myc-Mir-17-92 Axis in Colorectal Cancers

NCI

PI: A. Thomas-Tikhonenko

04/01/2015 to 03/31/2020

R01 CA196299

Role: Co-Investigator (S. Grant)

Genome-wide Association Study of Latent Autoimmune Diabetes in Adults

NIDDK

PI: S. Grant

07/01/2011 to 03/31/2020

R01 DK085212

TCF7L2, ACSL5 and Lipid Mediators in CF-Related Diabetes

CF Foundation

PI: R. Rubenstein

10/01/2016 to 09/30/2019

RUBENS16A0

Role: Co-Investigator (S. Grant)

Variant to Gene Mapping for Type 2 Diabetes

NICHHD

PI: S. Grant

07/01/2016 to 06/30/2019

R21 HD089824

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Exploiting Metabolic Vulnerabilities of CD4+ T Cell Subsets to Control Inflammation

NIH/NIDDK

PI: J. Rathmell

05/01/2015 to 04/30/2019

R01 DK100901

The major goal of this project is to determine the role of glucose and related metabolic pathways in regulating CD4+ T cell function.

Intergenic cis-Regulatory Elements in the Control of IL-2 and IL-21

NIH/NIAID

PI: A. Wells

01/01/2014 to 11/30/2017

R21 AI110179-01

Role: Collaborator

The major goal of this project is to identify distal enhancer elements that regulate transcription of the IL-2 and IL-21 genes using ChIP and 3-dimensional chromosome capture approaches.