

Resource Summary Report

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Center for Iron and Heme Disorders at the University of Utah Mutation Generation and Detection Core

RRID:SCR_015339

Type: Tool

Proper Citation

Center for Iron and Heme Disorders at the University of Utah Mutation Generation and Detection Core (RRID:SCR_015339)

Resource Information

URL: <http://cihd.cores.utah.edu/mgd/>

Proper Citation: Center for Iron and Heme Disorders at the University of Utah Mutation Generation and Detection Core (RRID:SCR_015339)

Description: Core facility which provides custom TALEN and Crispr-Cas9 DNA nucleases to induce targeted mutations in a genomic region of interest. It also provides hardware, reagents, and expertise for optimizing and performing HRMA for genes of interest.

Resource Type: access service resource, core facility, resource, service resource

Keywords: crispr, crispr cas9, induced mutation

Related Condition: iron disorder, heme disorder

Funding: NIDDK U54DK110858

Availability: Available to the research community

Resource Name: Center for Iron and Heme Disorders at the University of Utah Mutation Generation and Detection Core

Resource ID: SCR_015339

Record Creation Time: 20220129T080325+0000

Record Last Update: 20260829T183256+0000

Ratings and Alerts

No rating or validation information has been found for Center for Iron and Heme Disorders at the University of Utah Mutation Generation and Detection Core .

No alerts have been found for Center for Iron and Heme Disorders at the University of Utah Mutation Generation and Detection Core .

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 21 mentions in open access literature.

Listed below are recent publications. The full list is available at [NIF](#) .

Kohlbrand AJ, et al. (2024) Structural Studies of Inhibitors with Clinically Relevant Influenza Endonuclease Variants. *Biochemistry*, 63(3), 264.

Meshrkey F, et al. (2023) Induced pluripotent stem cells derived from patients carrying mitochondrial mutations exhibit altered bioenergetics and aberrant differentiation potential. *Stem cell research & therapy*, 14(1), 320.

Jin X, et al. (2021) A novel variant in PAX6 as the cause of aniridia in a Chinese family. *BMC ophthalmology*, 21(1), 225.

Nagy ??, et al. (2019) Elevated HOX gene expression in acute myeloid leukemia is associated with NPM1 mutations and poor survival. *Journal of advanced research*, 20, 105.

Desban L, et al. (2019) Regulation of the apical extension morphogenesis tunes the mechanosensory response of microvilliated neurons. *PLoS biology*, 17(4), e3000235.

Zelinka CP, et al. (2018) Targeted disruption of the endogenous zebrafish rhodopsin locus as models of rapid rod photoreceptor degeneration. *Molecular vision*, 24, 587.

Bisgrove BW, et al. (2017) Maternal Gdf3 is an obligatory cofactor in Nodal signaling for embryonic axis formation in zebrafish. *eLife*, 6.

Murakami R, et al. (2017) Exome Sequencing Landscape Analysis in Ovarian Clear Cell Carcinoma Shed Light on Key Chromosomal Regions and Mutation Gene Networks. *The American journal of pathology*, 187(10), 2246.

Sedykh I, et al. (2017) Zebrafish *zic2* controls formation of periocular neural crest and choroid fissure morphogenesis. *Developmental biology*, 429(1), 92.

Pilonetto DV, et al. (2017) A strategy for molecular diagnostics of Fanconi anemia in Brazilian patients. *Molecular genetics & genomic medicine*, 5(4), 360.

Jin X, et al. (2016) Novel compound heterozygous mutation in the CNGA1 gene underlie autosomal recessive retinitis pigmentosa in a Chinese family. *Bioscience reports*, 36(1), e00289.

Sotolongo-Lopez M, et al. (2016) Genetic Dissection of Dual Roles for the Transcription Factor six7 in Photoreceptor Development and Patterning in Zebrafish. *PLoS genetics*, 12(4), e1005968.

Rahn JJ, et al. (2015) Zebrafish lacking functional DNA polymerase gamma survive to juvenile stage, despite rapid and sustained mitochondrial DNA depletion, altered energetics and growth. *Nucleic acids research*, 43(21), 10338.

Jin X, et al. (2014) Detecting genetic variations in hereditary retinal dystrophies with next-generation sequencing technology. *Molecular vision*, 20, 553.

Tan DS, et al. (2014) Tongue carcinoma infrequently harbor common actionable genetic alterations. *BMC cancer*, 14, 679.

Tan GS, et al. (2013) Mutually dependent degradation of Ama1p and Cdc20p terminates APC/C ubiquitin ligase activity at the completion of meiotic development in yeast. *Cell division*, 8(1), 9.

Bjorum SM, et al. (2013) The Drosophila BTB domain protein Jim Lovell has roles in multiple larval and adult behaviors. *PloS one*, 8(4), e61270.

Hu R, et al. (2013) Targeting human microRNA genes using engineered Tal-effector nucleases (TALENs). *PloS one*, 8(5), e63074.

Liu T, et al. (2012) A novel missense SNRNP200 mutation associated with autosomal dominant retinitis pigmentosa in a Chinese family. *PloS one*, 7(9), e45464.

Kimata T, et al. (2012) Synaptic polarity depends on phosphatidylinositol signaling regulated by myo-inositol monophosphatase in *Caenorhabditis elegans*. *Genetics*, 191(2), 509.