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# LONG NON-CODING RNAS (LNCRNAS) AS THERAPEUTIC TARGETS IN GLIOMA

Tech ID: 33130 / UC Case 2019-001-0

## **TECHNOLOGY DESCRIPTION**

LncRNAs exhibit high specificity to target tissues and cells, which may help to reduce toxic effects associated with cancer therapy. LncRNAs can be successfully targeted with antisense oligonucleotides (ASOs) to represent a new

class of targets for tumor therapy.

UCSF researchers have developed a radiation modifier screen using CRISPRi to identify specific IncRNAs that sensitize glioma cells to radiotherapy. The invention also comprises methods for generating a human brain organoid model of malignant glioma.

#### **ADVANTAGES**

· Potential to:

o increase efficacy of radiation therapy, a key adjunctive cancer therapy

o selectively inhibit glioma cell growth via IncRNA knockdown without toxicity to normal brain cells

## **APPLICATION**

· Method of treating malignant glioma and/or inhibiting growth / proliferation of glioma cells

· Enhancement of radiation therapy efficacy

· Method of screening therapeutic agents / radiotherapy sensitizers

#### LOOKING FOR PARTNERS

To commercialize the technology

#### **STAGE OF DEVELOPMENT**

Proof of concept

#### **RELATED MATERIALS**

Compositions and Methods of Treating Glioma - 04/11/2023

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## **OTHER INFORMATION**

**KEYWORDS** 

IncRNA, long non-coding

RNA, glioma, antisense

oligonucleotide, ASO,

radiation therapy

#### **CATEGORIZED AS**

#### Medical

Disease: Cancer

- Screening
- ► Therapeutics

**RELATED CASES** 2019-001-0

# DATAAVAILABILITY

Available under CDA

## PATENT STATUS

Patent Pending

## ADDRESS

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