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**A treatment for Zika virus infection and neuroprotection efficacy**

**Grant Award Details**

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A treatment for Zika virus infection and neuroprotection efficacy

**Grant Type:** Quest - Discovery Stage Research Projects

**Grant Number:** DISC2-09649

**Project Objective:** To develop a candidate treatment for Zika virus infection and neuroprotection efficacy

**Investigator:**

<b>Name:</b>	Alysson Muotri
<b>Institution:</b>	University of California, San Diego
<b>Type:</b>	PI

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**Disease Focus:** Infectious Disease, Neurological Disorders, Zika virus

**Human Stem Cell Use:** iPS Cell

**Award Value:** \$1,924,524

**Status:** Closed

**Progress Reports**

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**Reporting Period:** Year 3 NCE

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**Grant Application Details**

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**Application Title:** A treatment for Zika virus infection and neuroprotection efficacy

**Public Abstract:****Research Objective**

We propose to determine the impact of the Zika virus during human neurodevelopment and to test a FDA-approved therapeutic candidate to treat Zika infection.

**Impact**

A drug to treat/cure Zika infection and for neuroprotection.

**Major Proposed Activities**

- To determine the molecular and cellular alterations caused by the Zika virus in the human developing brain and to validate a potential treatment for Zika infection.
- To re-purpose a therapeutic drug to treat Zika infection and for neuroprotection using in vivo models.
- To prepare and organize a clinical trial for Zika infection in a target population using a repurposed FDA-approved anti-viral drug.

**Statement of Benefit to California:**

The recent outbreak of Zika virus prompted the WHO to declare a public health emergency of international concern due to the link between infected pregnant women and microcephalic babies. The virus is spreading quickly and cases of Zika was already reported in California. This proposal will test a FDA-approved drug repurposed to neutralize the virus deleterious consequences in human brain cells. The experiments are designed to learn about the long-term consequences of the virus infection.

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**Source URL:** <https://www.cirm.ca.gov/our-progress/awards/treatment-zika-virus-infection-and-neuroprotection-efficacy>