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**Description** 









**Patents** 

Outcomes

**Clinical Studies** 

News and More

<u>History</u>

Similar Projects

# **Infection and Rapid Transmission of SARS-COV-2 in Ferrets**

Project Number Former Number Contact Awardee

3R01Al140705- 5R01Al140705- PI/Project Leader Organization

03S1 02 JUNG, JAE U UNIVERSITY OF
SOUTHERN
CALIFORNIA

# Description

#### **Abstract Text**

Project Summary/Abstract The massive outbreak of newly emerged coronavirus disease 2019 (COVID-19) has been rapidly spread worldwide, leading to a pandemic infection and serious global health emergency. In order to prevent further dissemination of severe acute respiratory syndrome coronavirus 2 (SARS- CoV-2), understanding the in vivo characteristics of viral infection and transmission is of high priority. Specifically, an animal model that recapitulates the COVID-19 clinical symptoms in human infection is urgently needed in order to decipher the transmission routes and pathobiology of this virus and ultimately allow testing of pharmaceutical interventions. With our expertise in the development of animal model, we have recently established a ferret model for SARS-CoV-2 infection and transmission that highly recapitulates aspects of the human infection. The main goal of this study is to comprehensively characterize ferret animal model for SARS-CoV-2 infection, transmission and pathogenesis for **vaccine** interventions.

## **Public Health Relevance Statement**

Project Narrative The goal of this proposal is to comprehensively characterize ferret animal model for SARS-CoV-2 infection, transmission and pathogenesis for vaccine interventions.

#### **NIH Spending Category**

Bioengineering Coronaviruses Emerging Infectious Diseases Immunization

Infectious Diseases Lung Nanotechnology Vaccine Related

#### **Project Terms**

2019-nCoV 4 year old Animal Model **Basic Science** COVID-19 **Body Temperature** Characteristics Clinical Coughing **Disease Outbreaks Epithelial Cells Exhibits Ferritin Feces Ferrets** Genetic Goals **Immune Evasion** Genes Genotype Human **Immunity** In Vitro Infection Intervention Length Lung Modeling Mus **Pathogenesis Pathogenicity** Nanotechnology **Nonstructural Protein** Nose **Pharmacologic Substance Recombinants Patients Permeability Proteins** Reproducibility Role Route Safety Saliva **Sampling** Serum **Read More** 



**Contact PI/ Project** 

**Leader** Name

JUNG, JAE U

Title

**CHAIR AND PROFESSOR** 

Contact jungj@ccf.org

**Other Pls** 

Not Applicable

**Program Official** 

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ALARCON, RODOLFO M

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#### **Organization**

Name
UNIVERSITY OF SOUTHERN

CALIFORNIA

City **Los Angeles** 

Country UNITED STATES (US)

Department Type

MICROBIOLOGY/IMMUN/VIROL(

Organization Type SCHOOLS OF MEDICINE

State Code

CA

**Congressional District** 

37

#### **Other Information**

FOA **PA-18-935** 

Study Section

Special Emphasis
Panel[ZRG1(02)-M]

**Award Notice** 

Fiscal Year Date **2020 20-M** 

20-May-2020

Administering Institutes or

Centers

NATIONAL INSTITUTE OF ALLERGY AND INFECTIOUS DISEASES

DIOLAGEO

DUNS Number CFDA Code **072933393 855** 

Project Start Date 01-July-2018

Project End **02-July-**

Date **2020** 

Budget Start **01-July-**Date **2020** 

Budget End **02-July-**

Date **2020** 

## **Project Funding Information for 2020**

Total Funding Direct Costs Indirect Costs \$26,293 \$20,834 \$5,459

Year Funding IC

2020 NATIONAL INSTITUTE OF ALLERGY AND INFECTIOUS DISEASES

\$26,293

## NIH Categorical Spending Click here for more information on NIH Categorical Spending

Funding IC	FY Total Cost by IC	NIH Spending Category
NATIONAL INSTITUTE OF ALLERGY AND INFECTIOUS DISEASES	\$546,000	Bioengineering; Coronaviruses; Emerging Infectious Diseases; Immunization; Infectious Diseases; Lung; Nanotechnology Vaccine Related



2/3

# **Publications**

No Publications available for 3R01Al140705-03S1



# **Patents**

No Patents information available for 3R01Al140705-03S1



### Outcomes

The Project Outcomes shown here are displayed verbatim as submitted by the Principal Investigator (PI) for this award. Any opinions, findings, and conclusions or recommendations expressed are those of the PI and do not necessarily reflect the views of the National Institutes of Health. NIH has not endorsed the content below.

No Outcomes available for 3R01Al140705-03S1

# **Clinical Studies**

No Clinical Studies information available for 3R01Al140705-03S1



# News and More

#### **Related News Releases**

No news release information available for 3R01AI140705-03S1



# History

No Historical information available for 3R01Al140705-03S1

# **Similar Projects**

No Similar Projects information available for 3R01Al140705-03S1