











[Back to Search Results](#)

Immunologic Studies Associated with COVID-19

-  [Description](#)
-  [Details](#)
-  [Sub-Projects](#)
-  [Publications](#)
-  [Patents](#)
-  [Outcomes](#)
-  [Clinical Studies](#)
-  [News and More](#)
-  [History](#)
-  [Similar Projects](#)

Project Number
1ZIAAI001325-01

Contact PI/Project Leader
MOIR, SUSAN

Awardee Organization
NATIONAL INSTITUTE OF
ALLERGY AND
INFECTIOUS DISEASES

Description

Abstract Text

In 2020, we performed studies on B cells and innate cells in individuals hospitalized with **COVID-19** and individuals who have survived the disease. In efforts relating to **COVID-19**, we have begun investigating B-cell responses to SARS-CoV-2 and performing high-dimensional immunophenotyping in two ongoing studies: NCT04492475 investigating patients hospitalized with **COVID-19** and NCT04411147 investigating patients who have survived **COVID-19** and their close contacts. In the first study, longitudinal profiling has revealed elevated frequencies of low-density neutrophils and decreased frequencies of memory B cells, both of which begin to normalize as patients recover. There is also a sharp increase in antibody-secreting B cells called plasmablasts at 14 days of symptoms that also subsides with recovery. In the second study on **COVID-19** survivors, we have begun immunophenotyping peripheral blood B cells and we are developing tools to investigate memory B-cell responses to SARS-CoV-2 at single-cell and population levels.

Public Health Relevance Statement

Data not available.

NIH Spending Category


Clinical Research Coronaviruses Emerging Infectious Diseases
Infectious Diseases Lung

Project Terms

2019-nCoV Antibodies Antibody Therapy B-Lymphocytes COVID-19
Cells Development Disease Disease Progression Frequencies
Functional disorder Goals HIV HIV Infections Health Human
Immune Immunologics Immunology Immunophenotyping Individual
Knowledge Memory B-Lymphocyte Patients Plasmablast Population
Recovery Severe Acute Respiratory Syndrome Survivors Symptoms density
design high dimensionality neutrophil peripheral blood prevent
response tool

Details

Contact PI/ Project Leader

Name
[MOIR, SUSAN](#) 
Title

Other PIs

Not Applicable











Program Official

Name
Contact
Email not available

Thank you for your feedback!

[Back to Search Results](#)

Immunologic Studies Associated with COVID-19

-  [Description](#)
-  [Details](#)
-  [Sub-Projects](#)
-  [Publications](#)
-  [Patents](#)
-  [Outcomes](#)
-  [Clinical Studies](#)
-  [News and More](#)
-  [History](#)
-  [Similar Projects](#)

Project Number
1ZIAAI001325-01

Contact PI/Project Leader
MOIR, SUSAN

Awardee Organization
NATIONAL INSTITUTE OF ALLERGY AND INFECTIOUS DISEASES

ALLERGY AND INFECTIOUS DISEASES

Organization Type
Unavailable

City

Country

Other Information

FOA

Study Section

Fiscal Year
2020

Award Notice
Date

Administering Institutes or Centers
NATIONAL INSTITUTE OF ALLERGY AND INFECTIOUS DISEASES

DUNS Number CFDA Code

Project Start
Date

Project End
Date

Budget Start
Date

Budget End
Date

Project Funding Information for 2020

Total Funding
\$171,890

Direct Costs
\$0

Indirect Costs
\$0

Year	Funding IC	
2020	NATIONAL INSTITUTE OF ALLERGY AND INFECTIOUS DISEASES	\$171,890

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	\$171,890	Clinical Research; Coronaviruses; Emerging Infectious Diseases; Infectious Diseases; Lung;

Sub Projects

No Sub Projects information available for 1ZIAAI001325-01

Publications

No Publications available for 1ZIAAI001325-01

Patents

Thank you for your feedback!

[Back to Search Results](#)

Immunologic Studies Associated with COVID-19

[Description](#)[Details](#)[Sub-Projects](#)[Publications](#)[Patents](#)[Outcomes](#)[Clinical Studies](#)[News and More](#)[History](#)[Similar Projects](#)**Project Number**
1ZIAAI001325-01**Contact PI/Project Leader**
MOIR, SUSAN**Awardee Organization**
NATIONAL INSTITUTE OF
ALLERGY AND
INFECTIOUS DISEASES

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 1ZIAAI001325-01

Clinical Studies

No Clinical Studies information available for 1ZIAAI001325-01

News and More

Related News Releases

No news release information available for 1ZIAAI001325-01

History

No Historical information available for 1ZIAAI001325-01

Similar Projects

No Similar Projects information available for 1ZIAAI001325-01

Thank you for your feedback!