

GRANT ANALYSIS FORM OPERATING & CAPITAL GRANT PROJECTS/PROGRAMS

Department/Division: Health Department-LaboratoryContact Person & Phone No: Dr. Sanjib Bhattacharyya, Laboratory Director – Ext. 5702

Category of Request

 New Grant Grant Continuation

Previous Council File No. _____

 Change in Previously Approved Grant

Previous Council File No. _____

Project/Program Title: "Impact of immune failure on SARS-CoV-2 evolutionary potential" (BAA 75D301-21-R-71738)Grantor Agency: Centers for Disease Control and Prevention (via University of Wisconsin-Madison)Grant Application Date: February 26, 2021Anticipated Award Date: June 2021

1. Description of Grant Project/Program (Include Target Locations and Populations):

This CDC grant proposal is focused on utilizing viral genome sequencing for SARS-CoV-2 to better understand the emergence and spread of SARS-CoV-2 variants arising as a result of immune failure. The MHD Laboratory is partnering with the University of Wisconsin-Madison on this project, which will involve sequencing COVID specimens in Milwaukee and Dane counties from populations including patients and providers in healthcare settings (vaccinated and/or immune compromised individuals); student populations; and congregate settings of high socioeconomic vulnerability, such as homeless shelters and prisons. Specifically, MHDL will sequence approximately 1,000 specimens per year in Milwaukee County.

2. Relationship to City-Wide Strategic Goals and Departmental Objectives:

This grant directly relates to the MHD departmental strategic goal of ensuring public health preparedness and response, by increasing understanding of community spread of COVID-19. It is also in alignment with MHD's overall mission and core values of collaboration and innovation.

3. Need for Grant Funds and Impact on Other Departmental Operations (Applies only to Programs):

These grant funds and related activities will positively impact laboratory and epidemiology related operations at the MHD, as well as support the laboratory's ongoing services related to COVID-19.

4. Results Measurement/Progress Report (Applies only to Programs):

Over the course of the grant, MHDL will complete the following objectives:

- 1) Generate up to 500 SARS-CoV-2 sequences per year for populations including:
 - a. SARS-CoV-2 infected, vaccinated healthcare workers
 - b. Persistently infected individuals with medically managed co-morbidities
 - c. Homeless and incarcerated individuals with persistent infections
- 2) Sequence up to 500 specimens from the City of Milwaukee per year if specimen accrual from the other specified populations does not meet enrollment targets
- 3) Assess antibody titers for about 100 specimens per year

5. Grant Period, Timetable and Program Phase-Out Plan:

The funding period for this two-year project is April 1, 2021 through March 31, 2023.

6. Provide a list of Subgrantees:

This grant is anticipated to be directly awarded to UW-Madison, with funds administered to the MHD Laboratory (subgrantee) via a contract.

7. If Possible, complete Grant Budget Form and attach to back.

Grant budget form is attached.