Plan Overview

A Data Management Plan created using DMPTool

Title: A natural peptide antibacterial to treat bacterial vaginosis

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Funding opportunity number: PA-20-185

Grant: https://grants.nih.gov/grants/guide/pa-files/pa-20-185.html

Template: NIH-Default DMSP

Project abstract:

Bacterial vaginosis is a condition associated with numerous disease and adverse health outcomes in women, fetus, and newborns. The prevalence of bacterial vaginosis in women of child-bearing age in the US is approximately 30% with recurrence rates near 45%. Here, we will develop and test new therapeutics combining antibacterial peptides with beneficial vaginal probiotics with the long-term goal of preventing and/or treating the symptoms and health complications associated with bacterial vaginosis.

Start date: 12-01-2023

End date: 11-30-2024

Last modified: 04-08-2023

Copyright information:

A natural peptide antibacterial to treat bacterial vaginosis

This project will produce _____ [*Data type, e.g., imaging, sequencing, experimental measurements*] data generated/obtained from _____ [*Data modality, e.g., instrument, method, survey, experiment, data source*]. Data will be collected from ___ [*number*] of research participants/specimens/experiments, generating ___ [*number*] datasets totaling approximately ___ [*amount of data*] in size. The following data files will be used or produced in the course of the project: _____ [*list input data files, intermediate files, and final, post-processed files*]. Raw data will be transformed by ____ [*analysis, method*], and the subsequent processed dataset used for statistical analysis. To protect research participant identities, _____ [*e.g., individual, aggregated, summarized*] data will be made available for sharing.

Question not answered.

Question not answered.

Pharmacokinetic (PK) - drug concentration over time and pharmacodynamic (PD) data - bacterial counts reported as colony forming units (CFU) will be made available in *csv* format and will not require the use of specialized tools to be accessed or manipulated.

Data will be stored in common and open formats, such as csv for our in vivo study data. Information needed to make use of this data [e.g. *the meaning of variable names used as column headers, information about missing data if any* along with references to the sources of those standardized names and metadata items will be included wherever applicable.

All datasets that can be shared will be deposited in Dataverse.

A_Natural_Peptide_Antibacterial provides searchable study-level metadata for dataset discovery. The repository will assign DOIs as persistent identifiers, and there is a preservation plan to ensure long-term access. Data will be discoverable online through standard web search of the study-level metadata as well as the persistent pointer from the DOI to the dataset.

All scientific data generated from this project will be made available as soon as possible, and no later than the time of publication. The duration of preservation and sharing of the data will be a minimum of 10 years after the funding period.

There are no anticipated factors or limitations that will affect the access, distribution or reuse of the scientific data generated by the proposal.

Controlled access will not be used. The data that is shared will be shared by unrestricted download.

Contact PI, Dr. Laurie Comstock, ORCID: 0000-0002-9298-9973, will be responsible for the day-to-day oversight of lab/team data management activities and data sharing. Broader issues of DMS Plan compliance oversight and reporting will be handled by the PI and Co-PI team as part of general campuses stewardship, reporting, and compliance processes.

Planned Research Outputs

Dataset - "A_Natural_Peptide_Antimicrobial_PK_PD"

Time course pharmacokinetic data for drug concentrations over 7 days and pharmacodynamic data about impact of treatment on bacterial inoculum (colony formining units, cfu).

Planned research output details

Title	Type	Anticipated release date	Initial access level	Intended repository(ies)	Anticipated file size	License	Metadata standard(s)	May contain sensitive data?	May contain PII?
A_Natural_Peptide_Antimicrobial_PK_PD	Dataset	Unspecified	Open	None specified	5 MB	None specified	None specified	No	No