|  |  |
| --- | --- |
| **{ Title }** | |
| **Responsible Department: CLS-NGS** | **Effective Date: { Publication Date }** |
| **Policy Basis for Procedure**  This SOP describes the processes for making modifications and updates to the bioinformatics pipeline | |
| **Applicability**  This applies to the bioinformatics personnel of the NGS Lab. | |
| **Description of Standard Procedure**  **PROCEDURE**  Source code, modifications and versioning can be tracked in <https://git.biohpc.swmed.edu/ngsclialab/clinseq_workflows>.  1) Pipeline Versioning  Version updates will be tagged using the following example command:  git tag -a version\_0.1.1 -m "my version update 0.1.1"  where –a will be the new version tag added to the pipeline and –m is an optional message associated with the version tag.  Version tags will be obtained per sample run through pipeline and recorded in qc metrics file. The following command is used to record the version tag:  git describe –abrev=0 --tags  2) Pipeline Modifications  Modification made to the pipeline, (including, but not limited to: software updates, bug fixes and formatting changes) will be tracked in git.  Changes will be made on branch in local git repository, merged with master branch and pushed to remote master repository. Below are the commands used for modification and update of pipeline.    git checkout {modificationBranchName}  ----Make script modifications-----  git commit –am “Commit message”  git checkout master  git pull origin master  git merge {modificationBranchName}  git push origin master  All modifications and versioning dates of implementation are tracked in git.  **IMPLEMENTATION**  The Workflow used in this SOP can be downloaded here: <https://git.biohpc.swmed.edu/brandi.cantarel/clinseq_workflows>  **CALCULATIONS**  N/A  **INTERPRETATION/RESULTS/ALERT VALUES**  N/A  **REFERENCE INTERVALS (NORMAL REFERENCE RANGE)**  N/A  **ANALYTICAL MEASURING RANGE (LINEARITY)**  **N/A**  **RESULT REPORTING CRITERIA**  N/A | |
| **Definitions**  N/A | |
| **Applicable Forms**   |  |  | | --- | --- | | Document ID# | Title of Document | |  | Bioinformatics\_Version\_Updates | |  |  | |  |  |   **Related Documents**   |  |  | | --- | --- | | Document ID# | Title of Document | |  | DNA\_Analysis | |  | RNA\_Analysis | |  | Overview\_Bioinformatics\_SOP | | |
| **References** | |
| **Review, Revision, and Approval History**   |  |  |  |  | | --- | --- | --- | --- | | **History of Document** | | | | | Version | Date | Description of Change | Authored/Revised by | | 1 | 2018/02 | * New Document, Policy Tech upload, SOP update for UMI | Brandi Cantarel, Erika Villa | |  |  |  |  | | |
|  | |
| **Contact for Further Information** | |

**Title:** { Title } **Version:** { Version Number } **Status:** { Status }

**Writer(s)**: { Writers > All Users > Name & Title }

**Approver(s)**: { Approvers > All Users > Name & Title } **Approved Date**: { Date Approved }

**Effective Date**: { Publication Date }

**Next Review Date** { Next Periodic Review Date }