

**Galaxy | Published Page | Windshield Splatter**

<http://main.g2.bx.psu.edu/u/aun1/p/windshield-splatter>

**Galaxy** Analyze Data Workflow Data Libraries Help User

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**How to use this document**

This document is a live copy of supplementary materials for the manuscript. It provides access to the exact analyses and workflows discussed in the paper, so you can play with them by re-running, changing parameters, or even applying them to your own data. Specifically, we provide the two histories and one workflow found below. You can view these items by clicking on their name to expand them. You can also import these items into your Galaxy workspace and start using them; click on the green plus to import an item. To import workflows you must [create a Galaxy account](#) (unless you already have one) - a hassle-free procedure where you are only asked for a username and password.

This is the Galaxy history detailing the comparison of our pipeline to MEGAN:

Galaxy History | Galaxy vs. MEGAN Comparison of Galaxy vs. MEGAN pipeline.

8: s234 within 5% of max

9: Fetch taxonomic representation on data\_7

51,105 lines, format: taxonomy, database: 2  
Info:  
1 items

Sample 1	1	Phyla: 20040307TR	trimmed=> 27 103 491	root	Bacteroides	n	n
Sample 1	1	Phyla: 2004165TR	trimmed=> 25 991 562	root	Bacteroides	n	n
Sample 1	1	Phyla: 2004023TR	trimmed=> 196 92962	root	Bacteroides	n	n
Sample 1	1	Phyla: 2004022TR	trimmed=> 196 92962	root	Bacteroides	n	n
Sample 1	1	Phyla: 2004022TR	trimmed=> 77 972 562	root	Bacteroides	n	n
Sample 1	1	Phyla: 2003784TR	trimmed=> 63 988 562	root	Bacteroides	n	n

10: Fetch taxonomic representation on data\_8

This dataset contains blast hits +/- 5% of the maximum bitscore  
Taxonomic representation for retained Sample 1 reads

This is the Galaxy history showing a generic analysis of metagenomic data. (This corresponds to the "A complete metagenomic pipeline" section of the manuscript and Figure 3A):

Galaxy History | metagenomic analysis

This is the Galaxy workflow for generic analysis of metagenomic data. (This corresponds to the "A complete metagenomic pipeline" section of the manuscript and Figure 3B):

Galaxy Workflow | metagenomic analysis

Generic workflow for performing a metagenomic analysis on NGS data.

**Supplemental Analysis**

**Comparison between Galaxy pipeline and Megan**

Go to "<http://main.g2.bx.psu.edu/user/create>"

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aun1

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**Galaxy**

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Tools

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- Text Manipulation
- Convert Formats
- FASTA manipulation
- Filter and Sort
- Join, Subtract and Group
- Extract Features
- Fetch Sequences
- Fetch Alignments
- Get Genomic Scores
- Operate on Genomic Intervals
- Statistics
- Graph/Display Data

History Options

Imported: Galaxy vs MEGAN

- 14: Draw phylogeny on data\_12
- 13: Draw phylogeny on data\_10
- 11: Find lowest diagnostic rank on data\_9
- 10: Fetch taxonomic representation on data\_8

**Workflow Canvas | Clone of 'metagenomic analysis' shared by anton@bx.psu.edu'**

Workflow steps:

- Input dataset → Select high quality segments
- Input dataset → Megablast
- Reads → Quality scores → Megablast
- Megablast → Compare these sequences → output1 (tabular)
- IFASTA-to-Tabular → Convert these sequences → output1 (tabular)
- Concatenate Query → Concatenate Query

Workflow ID: 6ad3122b4f7fdcc