



Deliverable D5.6

First version of curated Food Metagenomic data from publicly available data



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EXECUTIVE SUMMARY

The present document is Deliverable D5.6: *First version of Curated Food Metagenomic data from publicly available data* of the MASTER project (Grant Agreement No. 818368), funded by the European Commission's Horizon 2020 Research and Innovation Programme. Deliverable D5.6 presents a first draft of a collection of all the available microbiome samples (shotgun metagenomics) associated with environments relevant for the food chain industry that are available from literature, to generate a resource called CuratedFoodMetagenomicData. The CuratedFoodMetagenomicData will be the basis for a meta-analysis of thousands of samples that will crucially highlight specific microbiome characteristics associated with environments, geography, specific foods and safety characteristics.

1. INTRODUCTION

One of the aims of WP5 of the EU-funded MASTER H2020 project is to collect and create a publicly available, user-friendly package, which will potentially include thousands of manually curated metagenome profiles, to allow reproducible analysis and integrated meta-analysis. Samples included in such a package are derived from food and food-chain associated metagenome studies (through shotgun metagenomics).

The present release includes samples, with curated associated metadata, derived from studies on the metagenome of food or food-production, across food-chain production sectors: marine, plant, soil, rumen, meat, brewing and fermented foods. Using the latest release of MetaPhlan, created and maintained at the Segata Lab (University of Trento (UNITN)), nearly 1,092 bacterial, archaeal and eukaryotic (e.g. Blastocysts) species were identified and quantified.

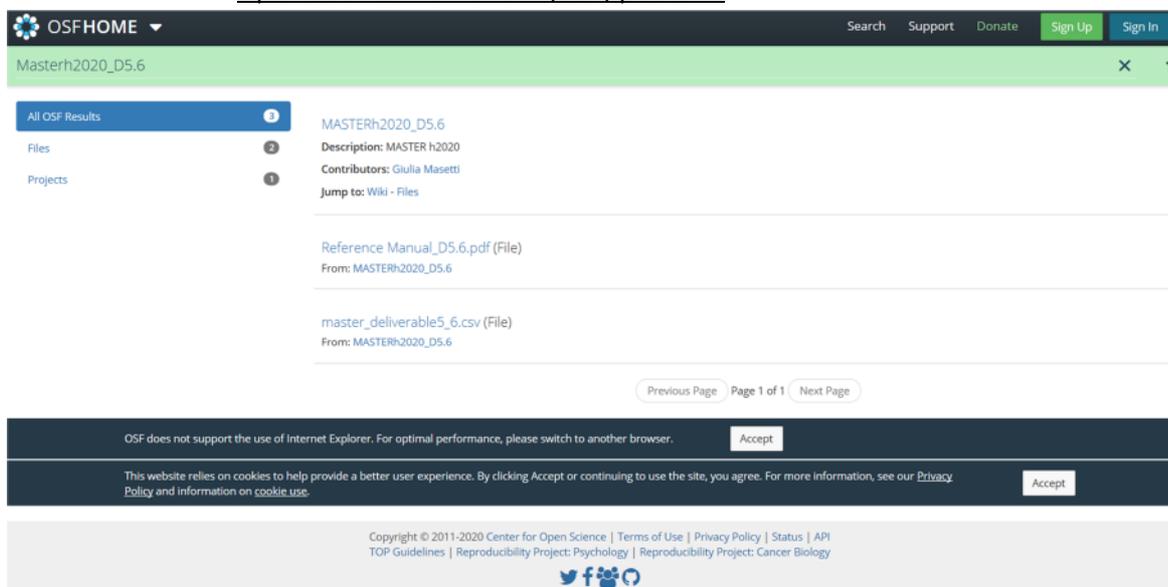
The first release of the package is now available for consultation in the [Open Science Framework platform](https://osf.io/search/), <https://osf.io/search/>. The name of the project is: [Masterh2020_D5.6](https://osf.io/search/). The project will be constantly updated and the number of profiles will be increased as the samples derived from the project will be sequenced. There is also a link to the [Open Science Framework platform](http://www.master-h2020.eu) on the MASTER website, www.master-h2020.eu.

Platform: [Open Science Framework platform](https://osf.io/search/)

Website details: <https://osf.io/search/>

Project name: Masterh2020_D5.6

Print screen of the [Open Science Framework \(OSF\)](https://osf.io/search/) platform with MASTER D5.6 submission:



The screenshot shows the OSFHOME interface for the project MASTERh2020_D5.6. The page includes a navigation bar with 'Search', 'Support', 'Donate', 'Sign Up', and 'Sign In' buttons. The main content area displays the project title 'MASTERh2020_D5.6' and a list of files: 'Reference Manual_D5.6.pdf (File)' and 'master_deliverable5_6.csv (File)'. The page also features a footer with copyright information and social media icons.