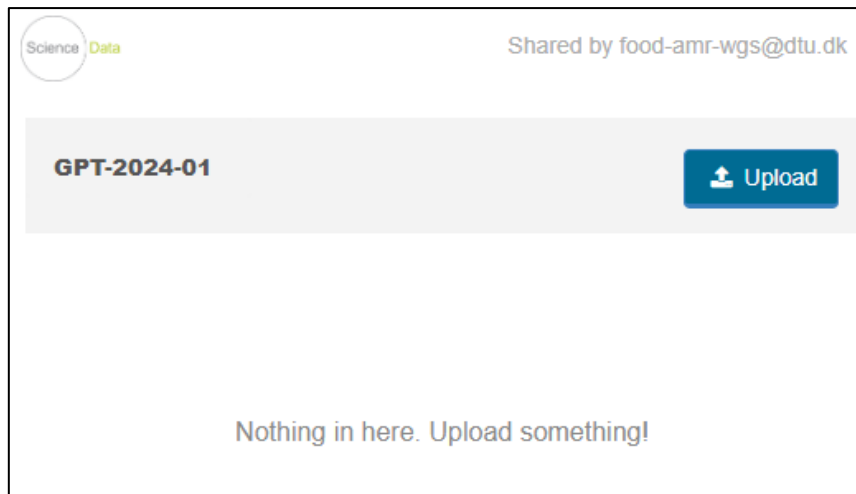# Appendix 1

Using ScienceData to transfer FASTQ files

This appendix provides instructions on how to upload raw sequencing data (FASTQ files) to the ScienceData platform for Quality Control (QC).

ScienceData is a cloud-based storage data platform built and operated by the Technical University of Denmark (DTU).

To access the ScienceData platform, use the link provided by the Proficiency Test (PT) organizers. The link will be sent via email to those who have registered as contact persons via the sign-up form. It is recommended to use the **Google Chrome** web browser when accessing ScienceData.

How to upload files to the ScienceData platform:

1. Confirm the FASTQ files are correctly named according to the DTU Genomic PT 2024 protocol, section 4.1, "Submission of raw sequencing data".

2. Click on the link provided in the cover letter by the PT organizers, and you should see the following image (example):

3. Click on the blue "Upload" button to choose and upload your files.

4. Confirm that the sizes of the uploaded files match the expected file sizes.

5. We encourage the participants to upload the MD5 Checksum for each sequencing file they uploaded to ScienceData. Most commonly, MD5 Checksum is used to verify that a file has not changed because of a faulty transfer, disk errors, or non-malicious modifications. To upload the MD5 Checksum, compile the hash values for the FASTQ files in a text file, as shown in the snapshot below. Name the files according to the protocol in section 4.1, "Submission of raw sequencing data" (example: 2024-

XX_GPT24-01_R1.fastq.gz, where XX refers to the unique Lab ID assigned to each participant - see the cover letter for the Lab ID).


```
md5sum - Notepad
File Edit Format View Help
18c153ef8d4ad2913c9c46188c7589e6    2024-99_GPT24-01_R1.fastq.gz
452efa5a78a7502184715d19df098d2f    2024-99_GPT24-01_R2.fastq.gz
891ffaa85d2f360344586a73f2249221    2024-99_GPT24-02_R1.fastq.gz
f28c6d0136bce52de2a4f0b06cd9d119    2024-99_GPT24-02_R2.fastq.gz
```

Attention! Please note that **files cannot be deleted** from the ScienceData folders. If you need to delete uploaded files, contact the DTU Genomic PT 2024 Coordinator, Joana Mourão at joam@food.dtu.dk.