**Carmen Camarena**

FAIR Homework

September 20th, 2024

Information Given:

URL: [https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE276609Links to an external site.](https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE276609)

Reviewer Access Code: axibswusvlybdov

Aim of Homework Assignment:

*“Describe how the GEO dataset with accession GSE276609* ***meets or does not meet*** *the criteria for being FAIR and provide an example if possible. This can be done in a Word or other text document. Click on the Info icons next to each question in the FAIR-Aware Assessment to get more details about what each item means. Note: This dataset has NOT been published yet, so please do not distribute this information.”*

**Findable**

1. **The data is assigned a globally unique persistent and resolvable identifie**r ?

While the data set does offer a GSE identifier, it does not contain a PID or DOI or ARK, nor Handle. This Runs the risk of “link rot” or “link death”.

1. **The data provides discovery metadata in order to make the data(set) findable, understandable and reusable to others?**

The data set contains theminimum metadata elements that include the Title, Creator or contributors, a submission and update date, a summary that includes keywords describing the data. They also include links to other research outputs/data sets used for their study.

1. **The data repository providing access to the data makes the metadata describing the data(set) available in a format readable by machines as well as humans?**

Yes. The format of the data set contains text files as well as CSV, TAR CLOUPE and http links that is accessible to humans and machines.

**Accessible**

1. **The metadata includes license information under which the data(set) can be reused?**

The data set does not contain a “data availability statement” but it does contain a table of reanalyzed/reused data with unique identifiers.

1. **The metadata can remain available over time, even if the data(set) is no longer accessible?**

Yes. The links to the metadata can be accessed even if the dataset was no longer accessible.

**Interoperable**

1. **The metadata describing the data(set) uses controlled vocabularies?**

The metadata uses controlled vocabulary within the community standards.

**Reusable**

1. **Provenance information about the collection and/or generation of data is included in the metadata?**

Yes, the creator included past links used for the data.

1. **The metadata describing the data(set) follows the specifications of a community-endorsed standard?**

Yes, the metadata follows a comminty-endorsed standard such that the descriptions are text and English and vocabulary in the field is understandable.

1. **The data(set) is deposited in a file format that is open and supported by the data repository for long-term preservation?**

Data should be made available in a recommended file format that is accepted by the research community to enable data sharing, interoperability, and reuse. The file format shows CLOUPE file , CSV and Txt files allowing preservation for long term storage.

1. **The data(set) is professionally data curated and digitally preserved?**

There is no TDR associated with the data however, agan, the dataset maintains well its links to resources of previously used and updated data as by their unique identifiers.