**Data Transfer Agreement Example**

This Agreement is made on **[Date]** between:

**Data Provider:**

Receiving Institution Name:  
Data Recipient Name and Title:  
Address:  
Email:

**Data Recipient:**

## Providing Institution Name: Walter and Eliza Hall Institute of Medical Research (WEHI) Contact Name and Title:

## Address: Email:

**Purpose of the Agreement** (Please select one)**:**

A. Research purposes

B. Others: **[Specify]**

**Description of the Data:**

The dataset used in this project comes from a publicly available source on **Zenodo** (DOI: <https://zenodo.org/records/7117784>) combined with clinical data that are synthetically generated separately. It includes **laboratory data** for research purposes, with embedded experimental information coming from the experiment such as camera angle, microscope settings, and other experimental parameters.

The data consists of sample images acquired using the **Zeiss lattice lightsheet microscope**, specifically of **human red blood cells** in the 488 channel. These images are associated with the **napari-lattice** software, a plugin for the **napari**viewer in Python. The images are structured with the following dimensions:

* **Raw\_full\_one\_timepoint.czi**: (1, 1, 834, 300, 2048), 1Gb
* **Raw\_full\_time\_series.czi**: (3, 1, 834, 300, 2048), 3Gb
* **Processed\_deskewed\_LLSZ.czi**: (5, 1, 834, 297, 279), 700Mb
* **Processed\_deconvolved\_LLSZ.czi**: (5, 1, 834, 297, 279), 700Mb
* **Summarised\_subset.zarr**
* **Summarised\_deskewed\_image.tiff**
* **Summarised\_deconvolved\_image.tiff**

**Voxel sizes** in **Z, Y, and X** respectively: (0.3, 0.1449922, 0.1449922)

The **napari-lattice** tool can process lattice lightsheet datasets, even those skewed in the **X** or **Y** direction. Additionally, it allows you to create full analysis workflows in **napari**, providing flexibility for further processing and analysis.

As a part of the preprocessing, we have converted the **CZI files** into a **Zarr file** for efficient storage and fast access, which retains the high-dimensional image data. The Zarr format was chosen for its efficiency in handling large datasets and its compatibility with parallel processing workflows.

In addition, we performed image processing using **deksew** for image stitching and **deconvolution** to enhance image quality, and the results were saved as **TIFF** files. The **TIFF files** represent the final processed data, with improved resolution and clarity for further analysis.

This project also serves as a **testing** framework, as some of the data are synthesized or processed for this purpose, including the synthetic generation of sample IDs and patient data.

**References of data:**

1. Public data source from WEHI researchers - <https://zenodo.org/records/7117784>
2. Synthetic clinical data - [https://github.com/onionsp/Synthetic-WGS-Dataset-Generator](https://github.com/onionsp/Synthetic-WGS-Dataset-Generator/)
3. Code to access the image samples - <https://github.com/DBK333/Omero-DataPortal/tree/main/OmeroImageSamples>

**Terms and conditions:**

### **Usage Restrictions**: Data Recipient agrees to not Use or Disclose the Data Set (or components) for any purpose other than as described for the Research Project or as Required by Law.

### **Confidentiality**: Data Recipient agrees to ensure that any agent, including a subcontractor, to whom it provides the Data Set, agrees to the same restrictions and conditions that apply through this Agreement to the Data Recipient with respect to such information.

* + - 1. **Compliance**: Data Recipient agrees not to contact any individuals from or about whom the data apply, and for Limited Data Sets, agrees not to attempt to identify the information contained in the Data Set.
      2. **Return or Destruction**: Data Recipient agrees to return or securely destroy the Data Set upon completion of the Research Project or as otherwise specified in the Agreement.
      3. **Indemnification**: Data Recipient will indemnify, defend and hold harmless the Data Provider and any affiliated parties, officers, directors, employees, and agents from and against any claim, cause of action, liability, damage, cost, or expense (including without limitation, reasonable attorney’s fees and court costs) arising out of or in connection with any unauthorized or prohibited Use or Disclosure of the Data Set or any other breach of this Agreement by Data Recipient or any subcontractor, agent, or person under Data Recipient’s control.

Signed by:

**Data Provider:**  **Data Recipient:**

**Date:** **Date:**

## 