

# WimSprout – Data description

## Wimasis GmbH

### What is WimSprout?

WimSprout is the image analysis software service that allows you to make an objective, comparable and automated image analysis of your Sprouting assay images through the internet. It is easy, fast and cheap and provides you with the right data to help you understand the evolution of your assay.

WimSprout has two different modules designed to fit better every kind of Sprouting assay, one for Aortic Ring assay images and another for Spheroid assay images. The results they provide are the same, but the algorithm of each of the modules is optimized for the analysis of each kind of images. You can find Free Trials for both of them in our online platform, myWim.

### How does WimSprout work?

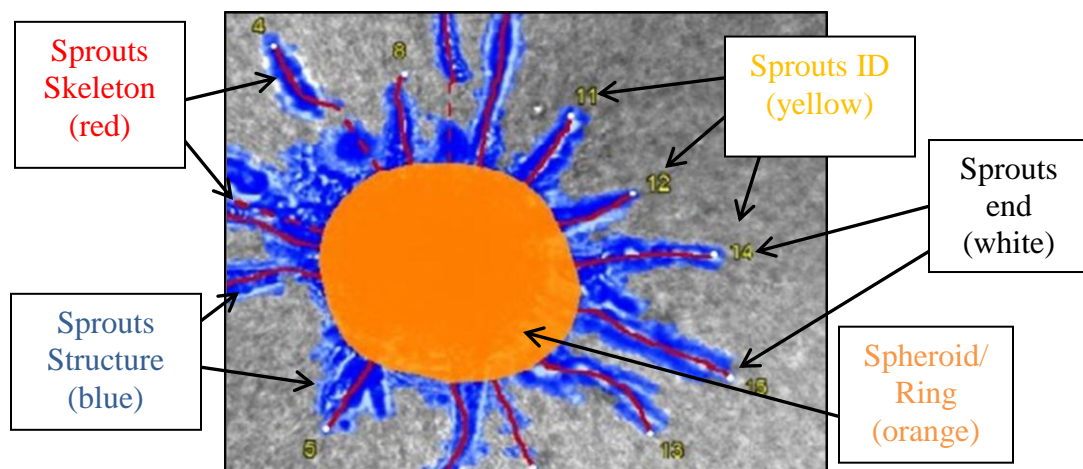
WimSprout is a software as a service offered through our online platform, myWim (<https://mywim.wimasis.com/>). This means that the analysis is completely automated, so it is faster and easier for you to get it done. You just need to register in myWim and start uploading your images to your personal WimSprout module on the platform and you get your images analyzed in just minutes!

And there is no need to worry about the privacy of your images, you will be the only user with access to your images; our https protocol certifies it.

### What data results does WimSprout provide?

WimSprout provides two kinds of data files:

1. **Output images:** they are the input images with the analysis outlined on them. Every parameter is outlined in a different color to make easier its identification.



2. **Results files:** they are .csv files that contain the data information. There is one .csv file per image and another one that summarizes the most important information of all the image data, in that way, you can get a general overview of the assay just looking at one document. The .csv files can be open with Excell, LibreOffice Calc or any text editor.

WimSprout results files contain the following data readouts:

1. **No. Sprouts:** number of sprouts detected.
2. **Sprout ID:** yellow number on the output image that identifies each sprout.
3. **Length (px):** length of every sprout identified with its Sprout ID. The values of this parameter are the ones used to calculate the *MSL* and the *SSL*.
4. **Cumulative Sprout Length (px):** *CSL* is the sum of the length in pixels of each sprout skeleton.
5. **Mean Sprout Length (px):** *MSL* is the arithmetic mean of each sprout length.
6. **Standard Deviation Sprout Length (px):** *SSL* is the standard deviation of the sprouts length
7. **Sprout area (px):** it is the number of pixels that belong to the sprouts created from the spheroid because of the sprouting process.
8. **Spheroid/Ring area (px):** it is the number of pixels that belong to the spheroid/ring. It estimates the area of the original spheroid/ring before the sprouting occurred.