READ ME - INSTRUCTIONS

Each EnVision or luminometer run stored in these folders is referring to 6-8 days old Cyt-YA *Arabidopsis thaliana* seedlings (plants were reconstituted in the dark the day before use).

All files were normalized according to the following structure:

- first 100 seconds = $[Ca^{2+}]_{cyt}$ baseline (resting);
- at second 100 = stimulus injection.

Most files stop at either 700 s (100 + 600 s = 10 minutes after stimulus injection), 1800 s (100 + 1700 s = 30 minutes since the start of the experiment) or 3600 s (100 + 3500 s = 1 hour after the start of the experiment).

Each files is named according to the following structure (the underscores _ are spacers):

- **LUM** or **ENV** | to distinguish a luminometer run from an EnVision one;
- **#7356** (*e.g.*) or **#null** or **#mean** | the unique ID number of that precise EnVision run (it is given to the file by the machine itself and should never be changed). If "#null", it refers to a luminometer run (which has no ID). If "#mean", it refers to a file which is resulting from the average of multiple similar/comparable runs;
- **240806** (*e.g.*) or **nodate** | the experiment date (format: year/month/day). If "nodate", it typically refers to an averaged file resulting from multiple runs over many days;
- **DBD** or **DII** or **ICM** or **Control** | the PAW source (Vanni's DBD or Dabalà's DII torch or ICMATE torch). If "Control", it refers to the use of control stimulus solutions different from PAW;

If the file is referring to a PAW stimulus, its name continues like this:

- **12kHz** or **20kHz** or **450W** or **900W** or **1800W** | the operating DBD frequency (12 kHz or 20 kHz) or the operating torch power (450W, 900W or 1800W; "null" refers to the ICMATE torch, which has no nominal power);
- **60s** or **180s** or **300s** or **600s** or **900s** or **1800s** | the total water activation time with cold plasma (meaning 1 min, 3 min, 5 min, 10 min, 15 min or 30 min);
- **fresh** or **stored(-80°C)1day** (e.g.) | either the PAW used the same day of generation or its storage at different temperatures (RT, 4°C or -80°C) for various time periods (from 1 day up to 3 months);
- **dilution1-2** or **dilution1-4** or **dilution1-8** or **dilution1-16** | the applied final PAW dilution.

If the file is referring to a control stimulus, its name continues like this:

- **flg22** or **H2O2** or **mannitol** or **NaCl** or **OGs** | the control stimulus type, either abiotic (H2O2 = oxidative, NaCl = salinity, mannitol = osmotic) or biotic (flg22 = bacterial pathogen attack, OGs = plant cell wall damage);
- **0.01M** (*e.g.*) or **20ug-ml** (*e.g.*) | the applied final stimulus concentration.