Filter log FRRO2Compare

O2 evolution and respective slopes were checked, if low light ActPAR could be changed to positive applying different time windows to calculate the O2 slope.

Sometimes a shorter induction window can result in positive O2-evolution, as respiration tends to be more representative towards the end of a dark phase

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | 20211210, TC | 20211210, noTC | 20211213, TC | 20211213, noTC |
| MaBe3724 | induction\_s = 115  end\_s = 175 | induction\_s = 115  end\_s = 175 | induction\_s = 115  end\_s = 175 | induction\_s = 115  end\_s = 175 |
| MaBe3725 | induction\_s = 115  end\_s = 175 | induction\_s = 115  end\_s = 175 | induction\_s = 115  end\_s = 175 | induction\_s = 115  end\_s = 175 |
| MaBe3726 | induction\_s = 115  end\_s = 175 | induction\_s = 95  end\_s = 175 | induction\_s = 30  end\_s = 175 | induction\_s = 35  end\_s = 175 |
| MaBe3727 | induction\_s = 25  end\_s = 175 | induction\_s = 125  end\_s = 175 | induction\_s = 85  end\_s = 175 | induction\_s = 85  end\_s = 175 |
| MaBe3728 | induction\_s = 115  end\_s = 175 | induction\_s = 115  end\_s = 175 | induction\_s = 115  end\_s = 175 | induction\_s = 115  end\_s = 175 |
| MaBe3729 | induction\_s = 105  end\_s = 165 | induction\_s = 115  end\_s = 175 | induction\_s = 115  end\_s = 175 | induction\_s = 35  end\_s = 175 |

O2 evolution was further checked for photoinhibition. If O2-production at higher light levels was lower, these values were filtered out.

O2FRRfMeta590 <- O2FRRfMeta %>%

filter(Dark1s != 1) %>%

filter(Ex\_WL == 590) %>%

filter(O2evln\_O2ls > lag(O2evln\_O2ls) & ActPAR > lag(ActPAR))

O2FRRfMeta445 <- O2FRRfMeta %>%

filter(Dark1s != 1) %>%

filter(Ex\_WL == 445) %>%

filter(O2evln\_O2ls > lag(O2evln\_O2ls) & ActPAR > lag(ActPAR))

O2FRRfMetaDark <- O2FRRfMeta %>%

filter(ActPAR == 0)

O2FRRfMetaFilter <- rbind(O2FRRfMeta445, O2FRRfMeta590, O2FRRfMetaDark)