## S2 Table. Screen conditions of GO term

## 1. Defense:

GO:0052542: defense response by callose deposition

GO:0051607: defense response to virus GO:0002213: defense response to insect GO:0042742: defense response to bacterium GO:0050832: defense response to fungus

GO:0006952: defense response

GO:0031347: regulation of defense response

## **2. ROS**

GO:0042744: hydrogen peroxide catabolic process

GO:0010310: regulation of hydrogen peroxide metabolic process

GO:0042542: response to hydrogen peroxide GO:0004784: superoxide dismutase activity

GO:0002679: respiratory burst involved in defense response

GO:2000377: regulation of reactive oxygen species metabolic process

GO:0034599: cellular response to oxidative stress

GO:0072593: reactive oxygen species metabolic process

GO:0000302: response to reactive oxygen species

GO:0050665: hydrogen peroxide biosynthetic process

## 3. Salicylic Acid

GO:0009863: salicylic acid mediated signaling pathway

GO:0052639: salicylic acid glucosyltransferase (ester-forming) activity

GO:0052640: salicylic acid glucosyltransferase (glucoside-forming) activity

GO:0080151: positive regulation of salicylic acid mediated signaling pathway

salicylic acid mediated signaling pathway

GO:2000031: regulation of salicylic acid mediated signaling pathway

regulation of salicylic acid biosynthetic process

salicylic acid mediated signaling pathway

GO:0009751: response to salicylic acid

regulation of salicylic acid metabolic process

GO:0046244: salicylic acid catabolic process

response to salicylic acid stimulus

GO:0010337: regulation of salicylic acid metabolic process

GO:0009697: salicylic acid biosynthetic process

GO:0080142: regulation of salicylic acid biosynthetic process