

Additional File 2:

Transcriptional profiling of Arabidopsis heat shock proteins and transcription factors reveals extensive overlap between heat and non-heat stress response pathways

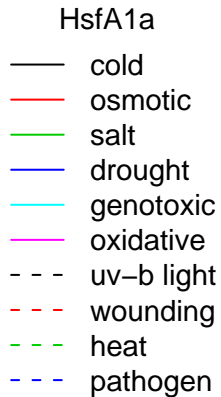
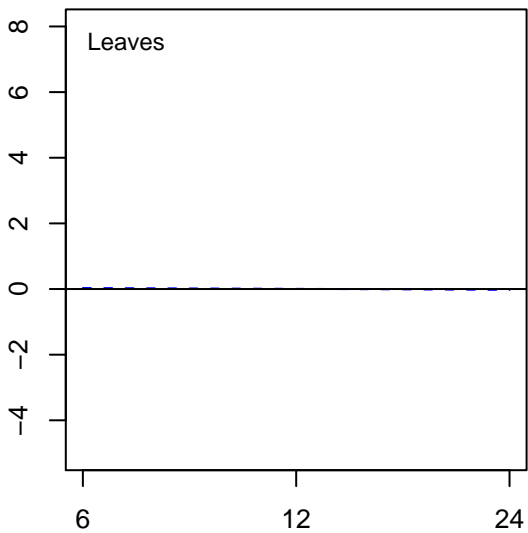
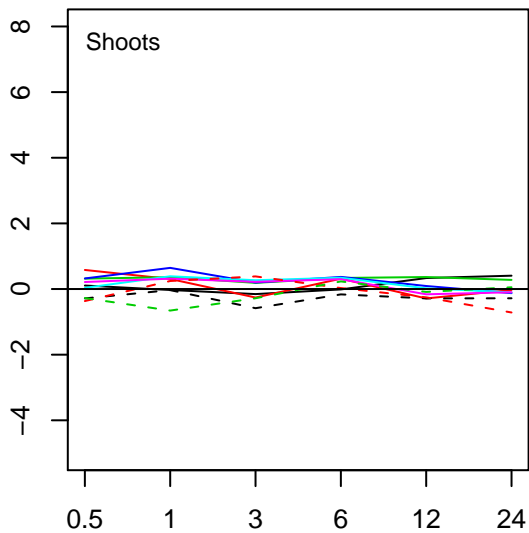
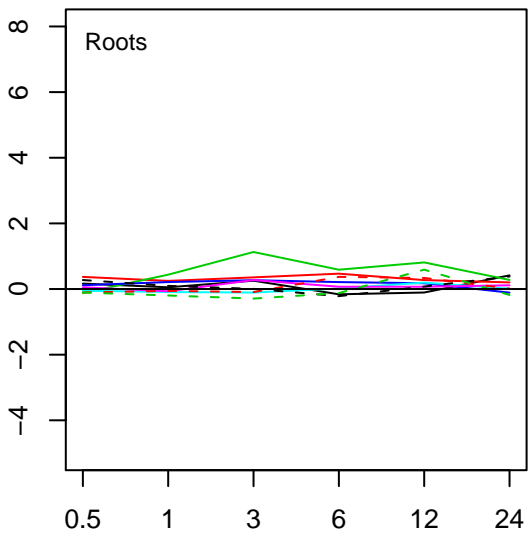
William R. Swindell(1), Marianne Huebner(1), Andreas P. Weber(2)

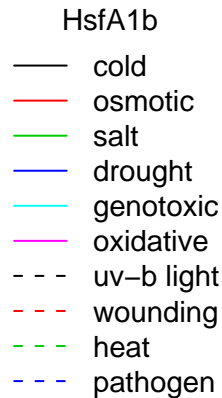
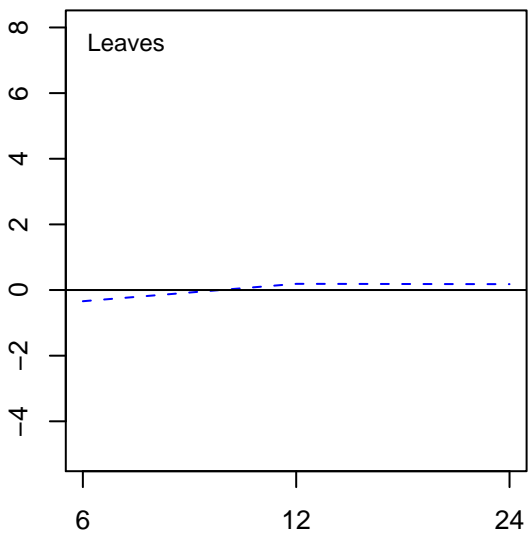
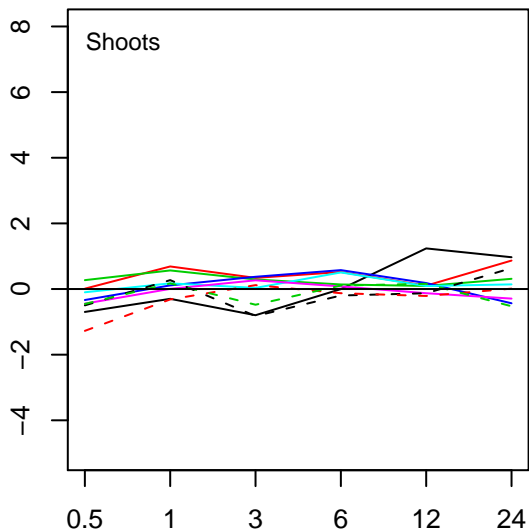
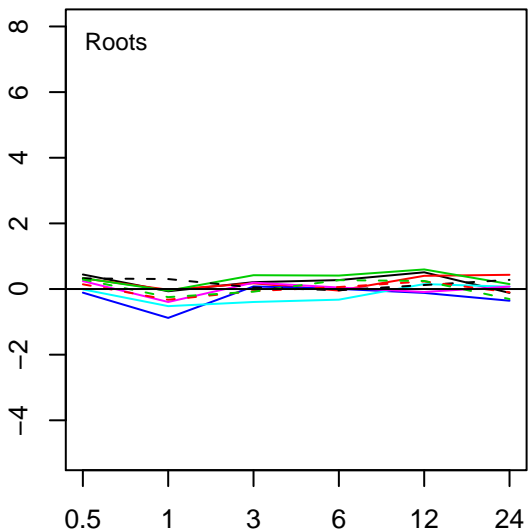
(1) Michigan State University, Dept. of Statistics and Probability

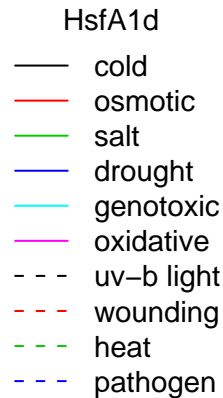
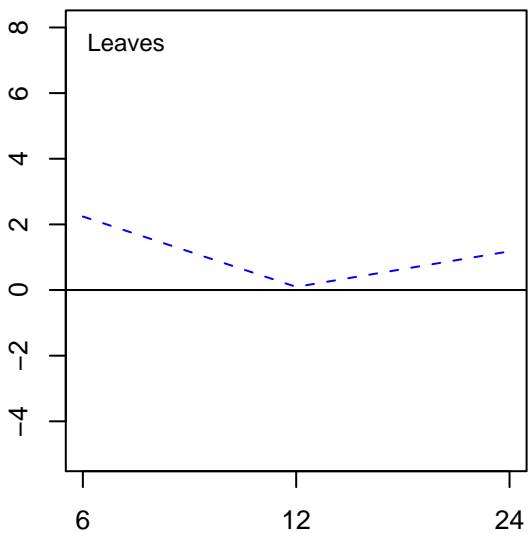
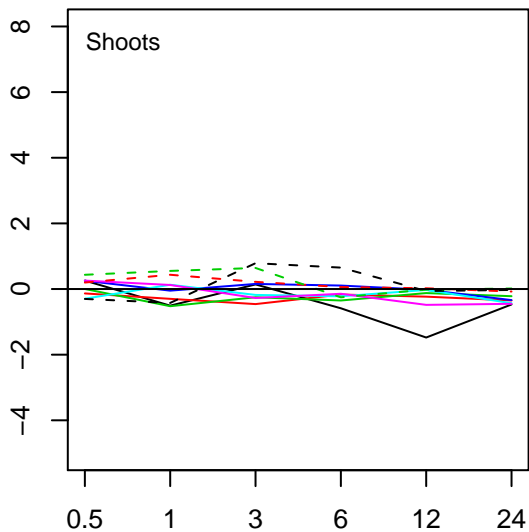
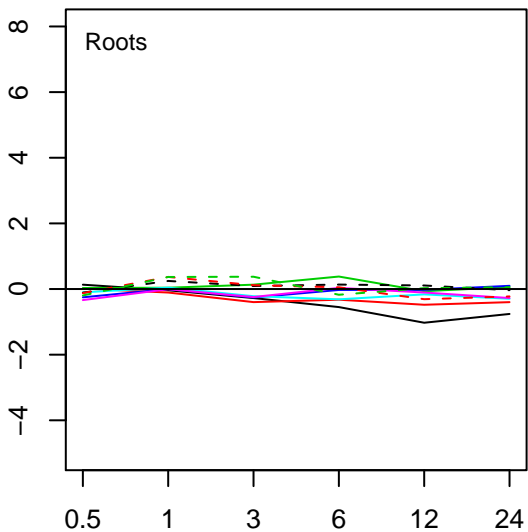
(2) Michigan State University, Dept. of Plant Biology

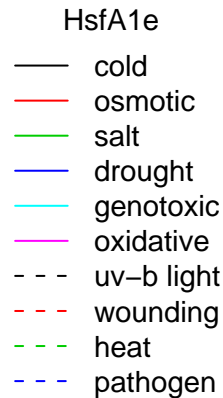
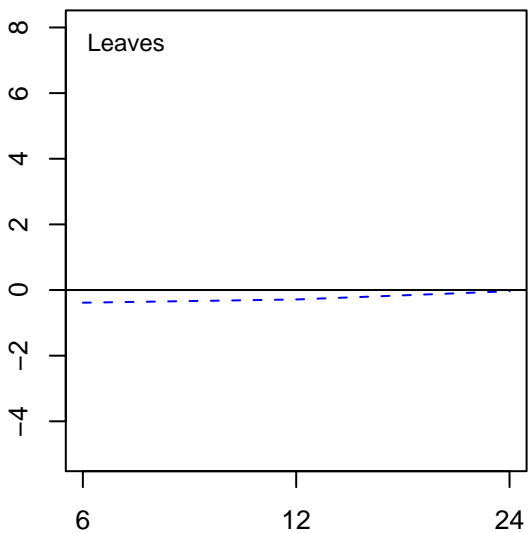
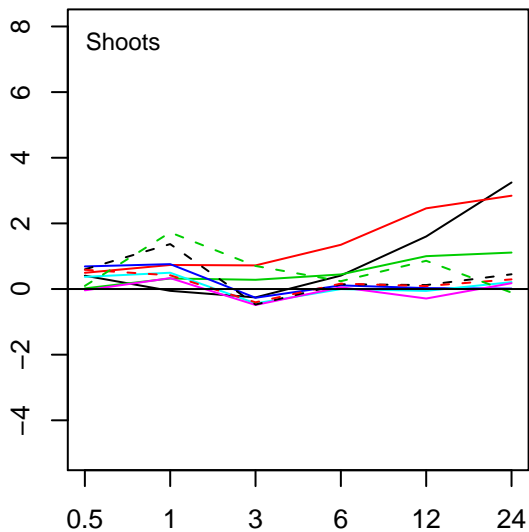
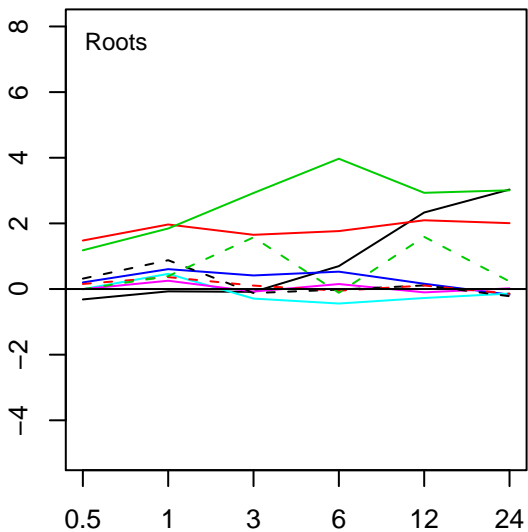
This file displays stress-response profile plots for each individual heat shock protein and transcription factor analyzed in this study. Expression response profiles are shown for all abiotic stress treatments applied to roots and shoots, and for the pathogen treatment applied to leaves. The horizontal axis of each plot corresponds to time (hours), while the vertical axis corresponds to the log₂ fold-change associated with a given stress treatment.

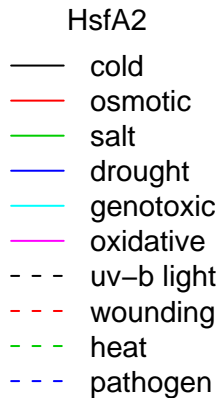
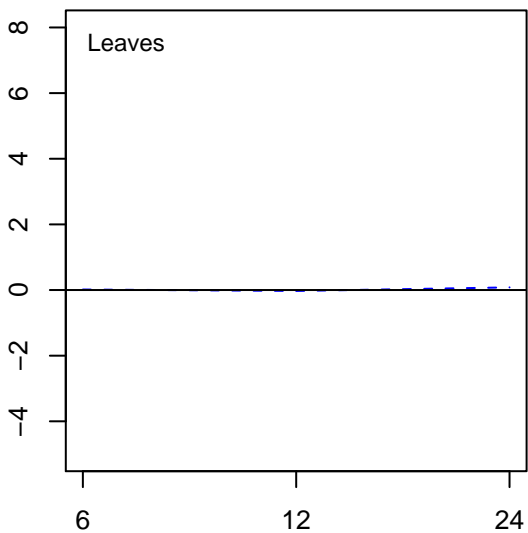
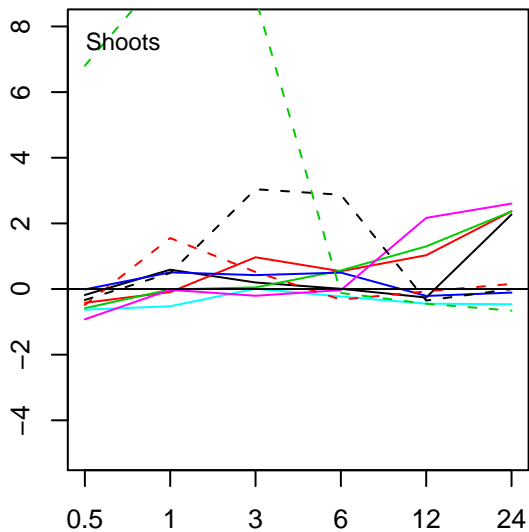
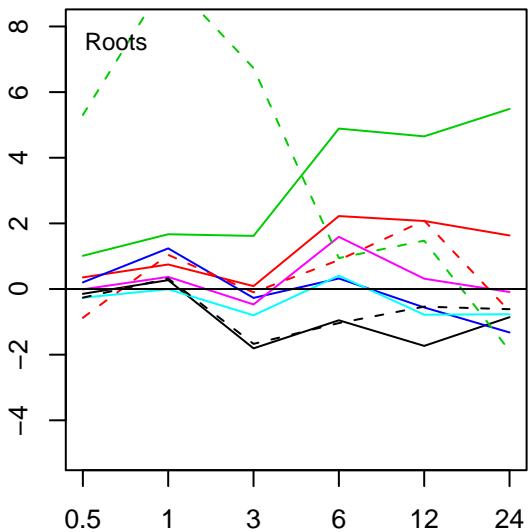
Contact: William R. Swindell, swindel5@msu.edu

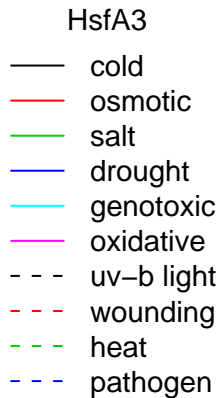
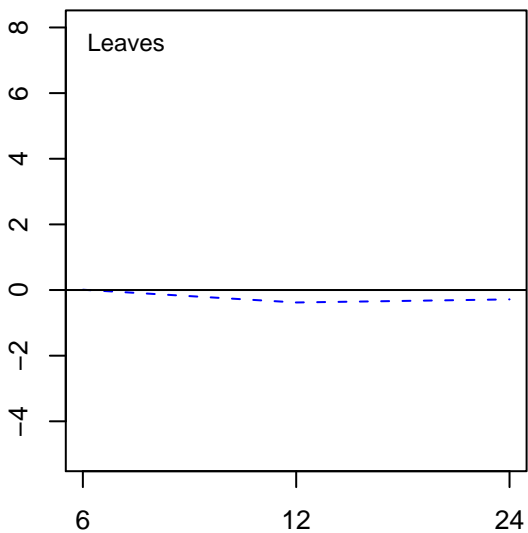
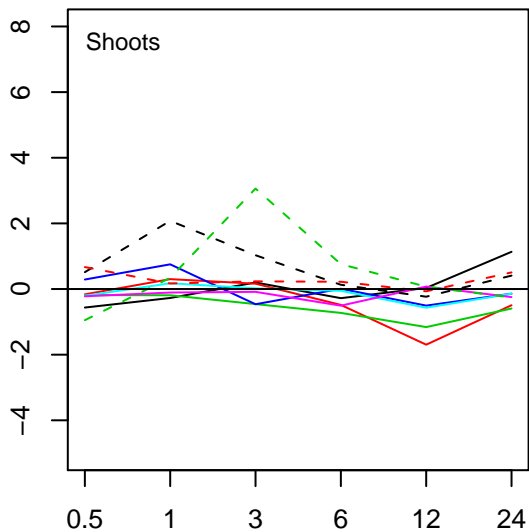
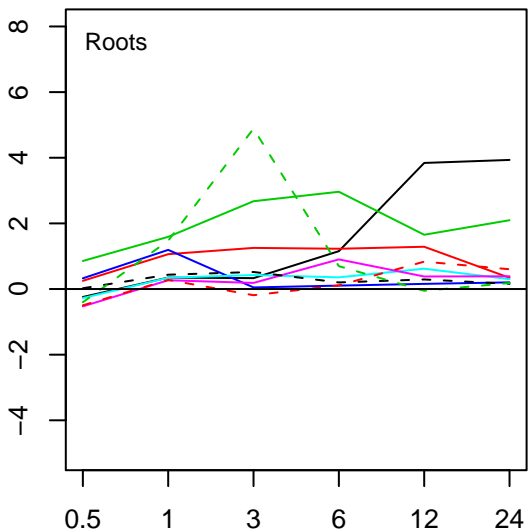


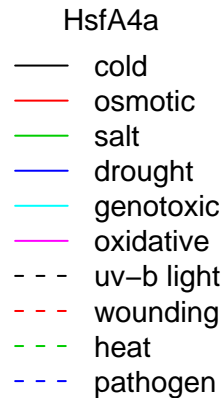
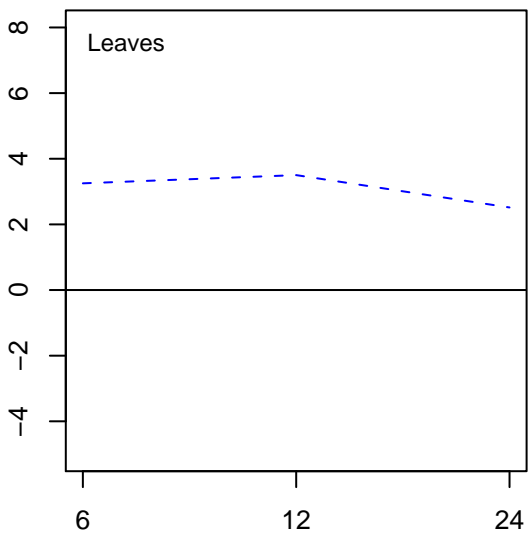
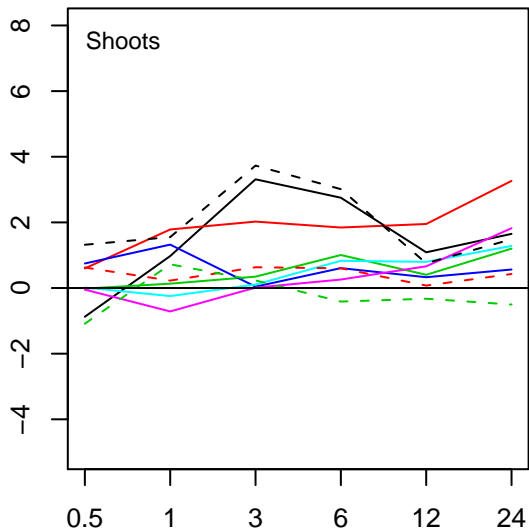
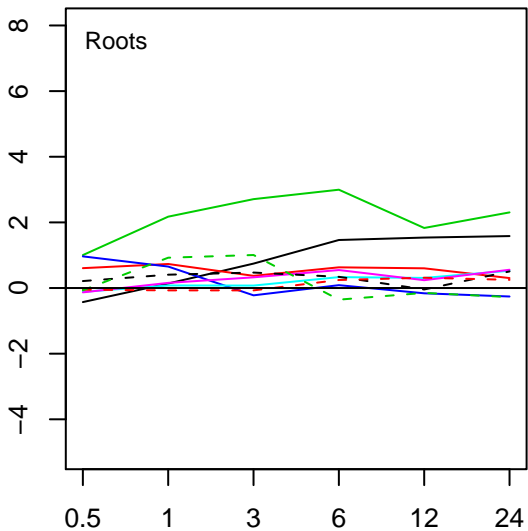


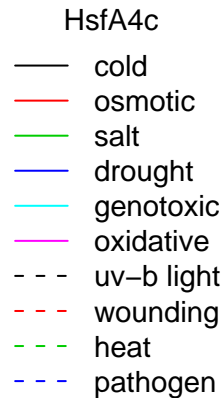
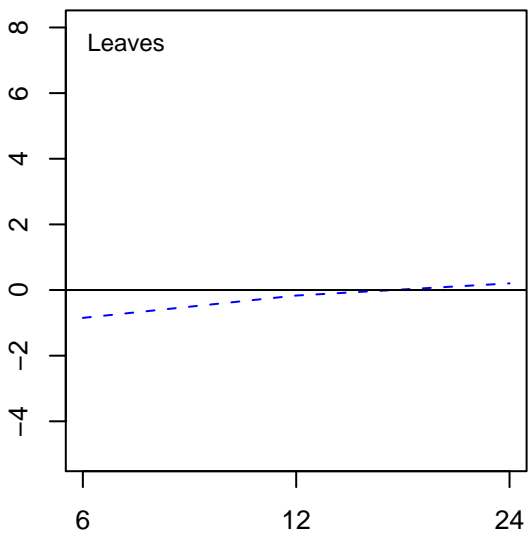
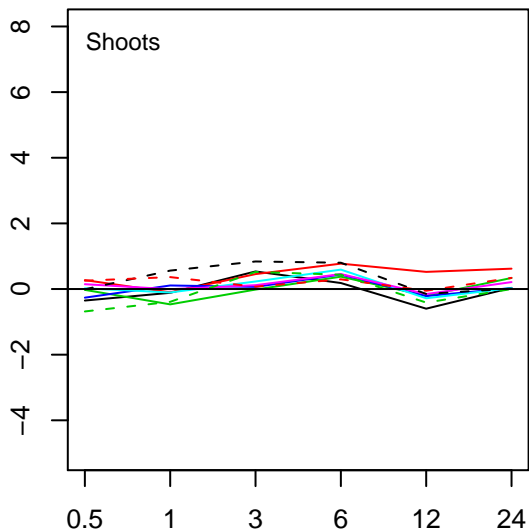
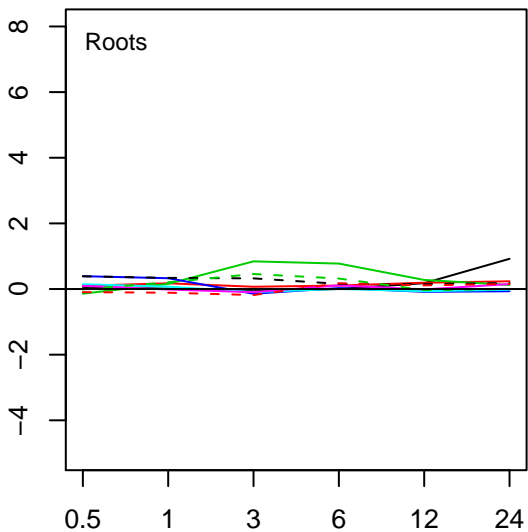


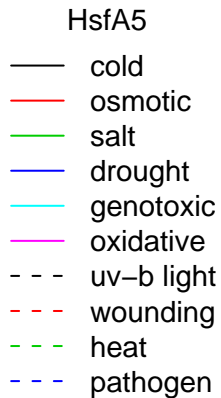
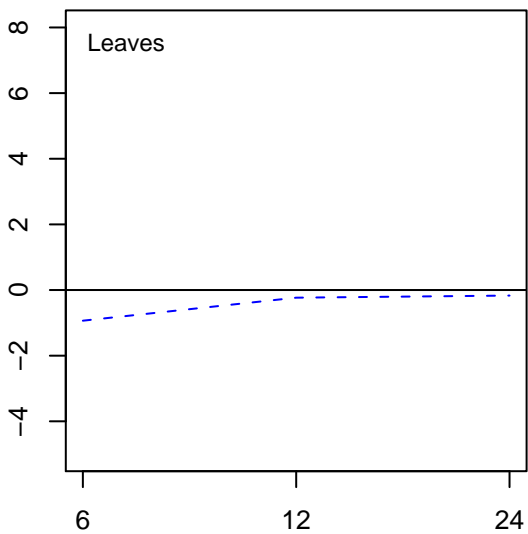
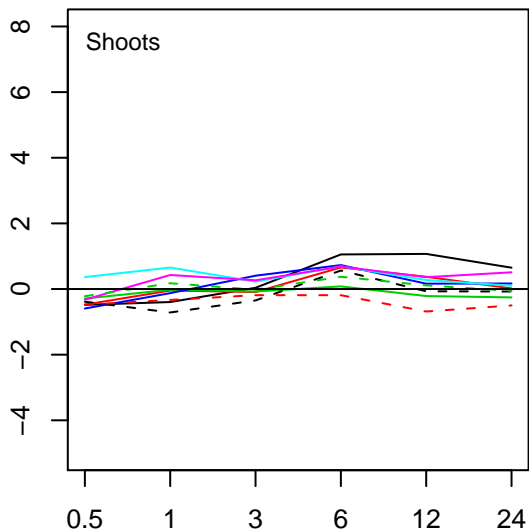
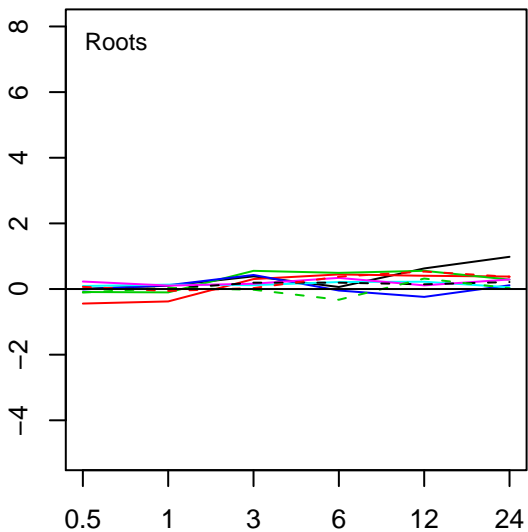


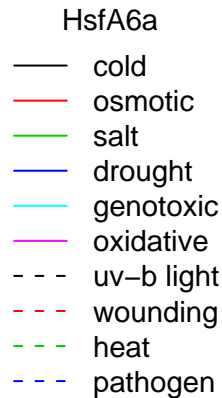
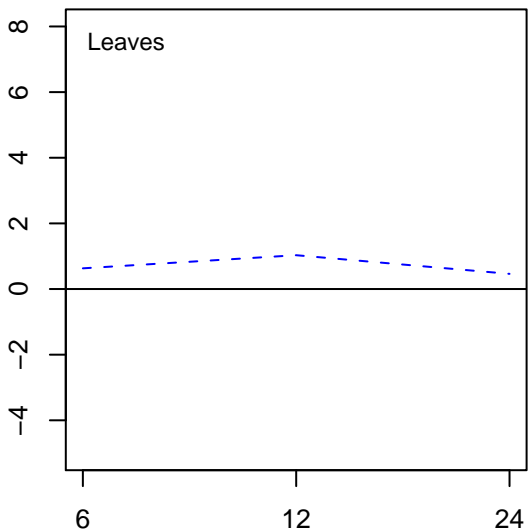
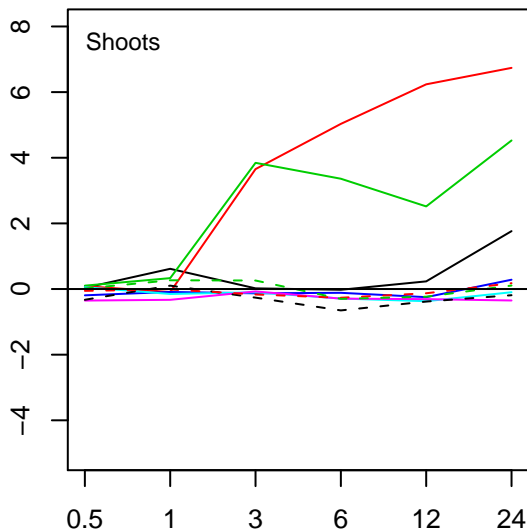
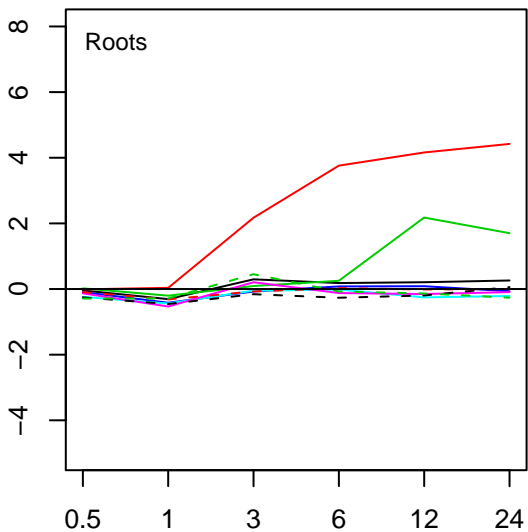


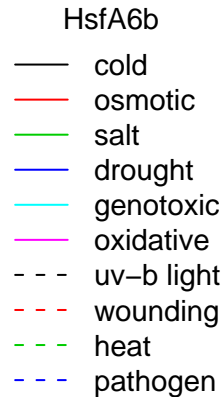
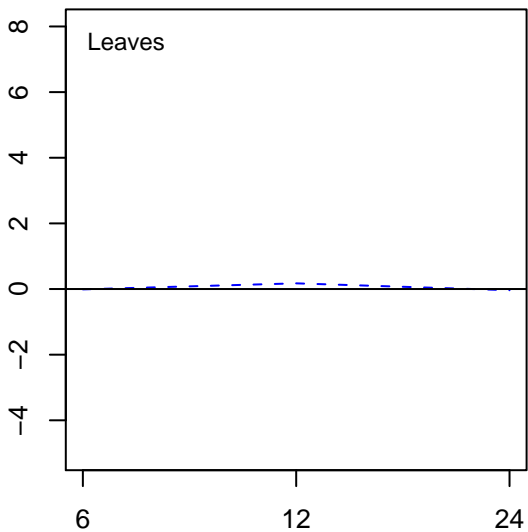
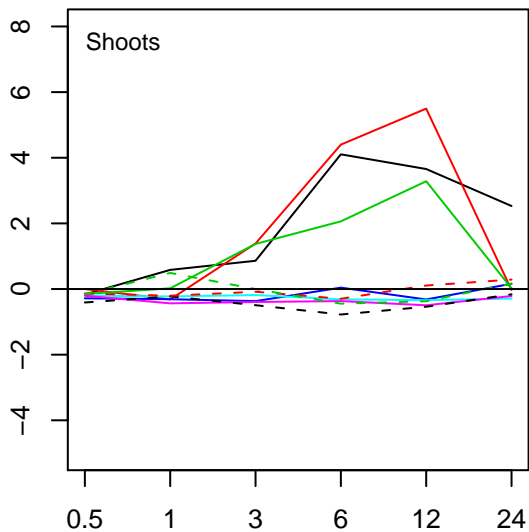
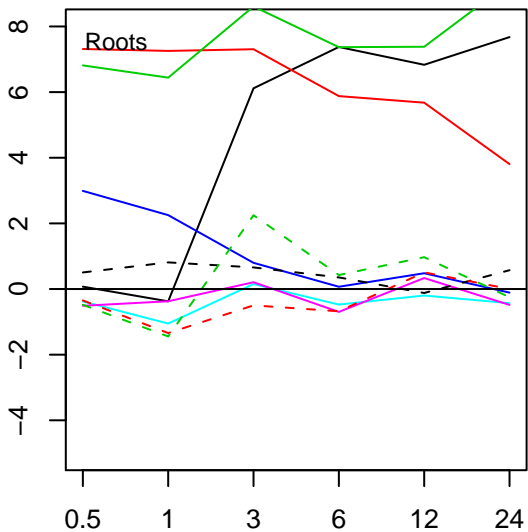


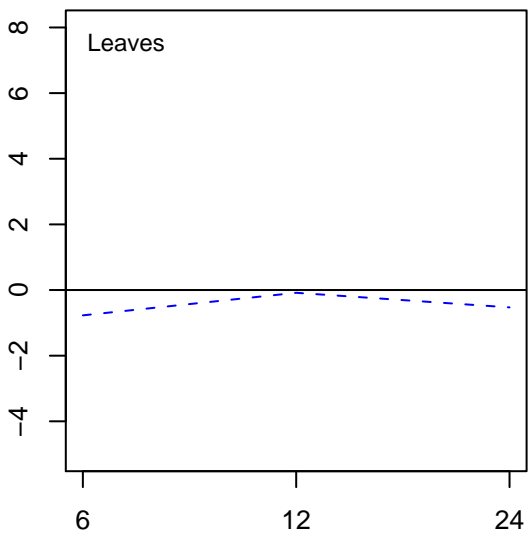
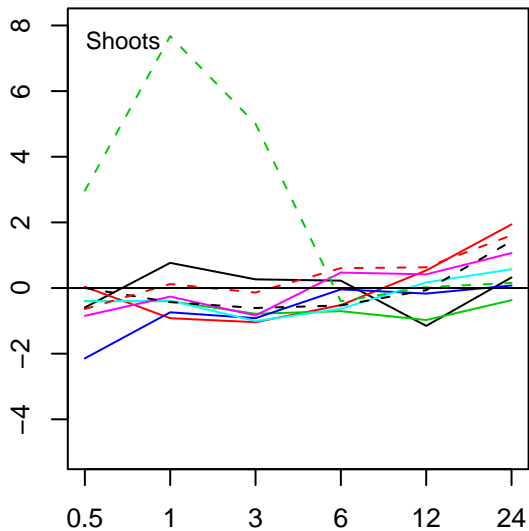
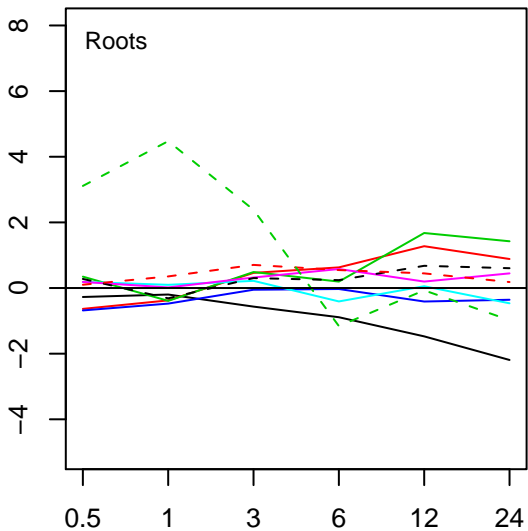






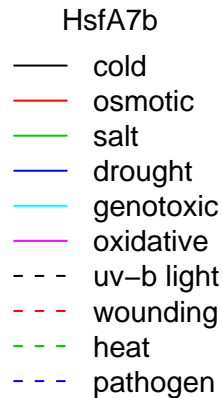
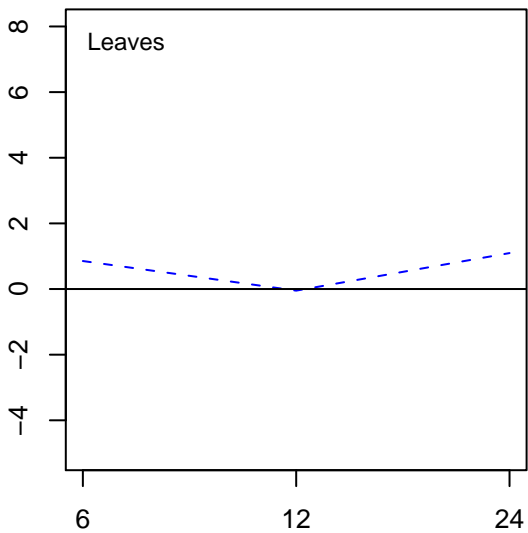
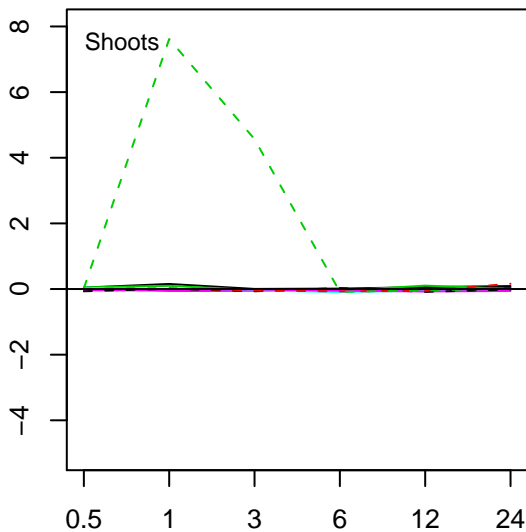
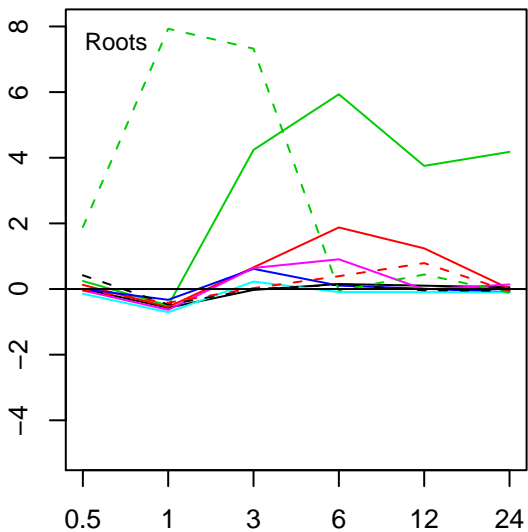


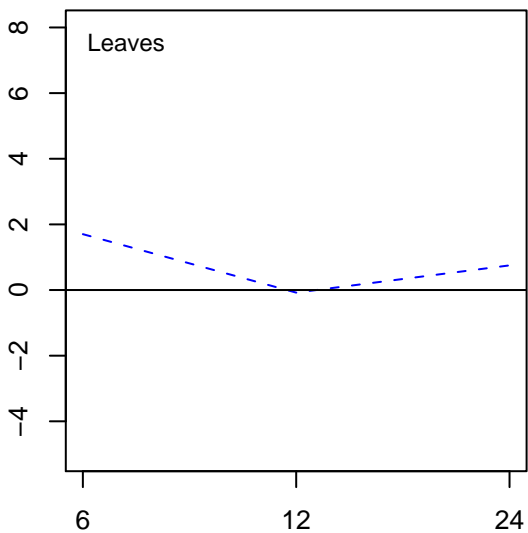
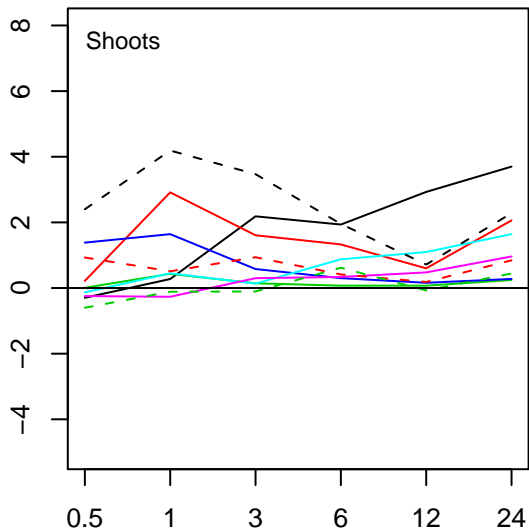
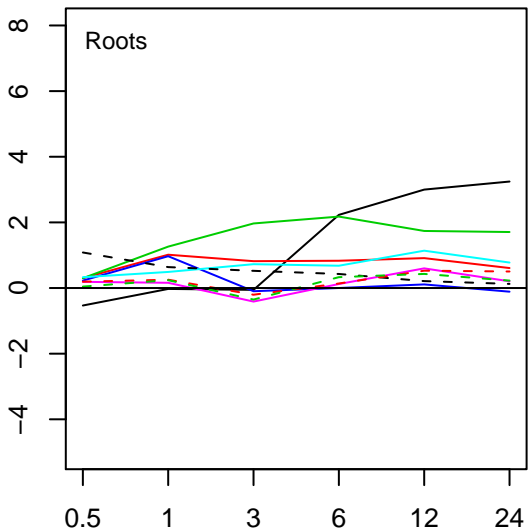




HsfA7a

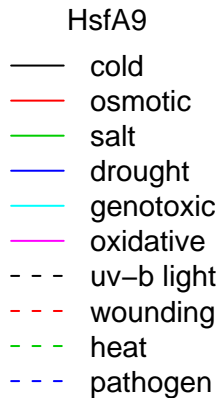
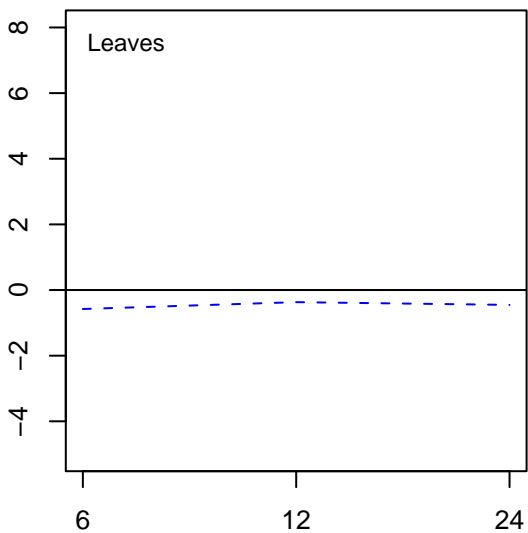
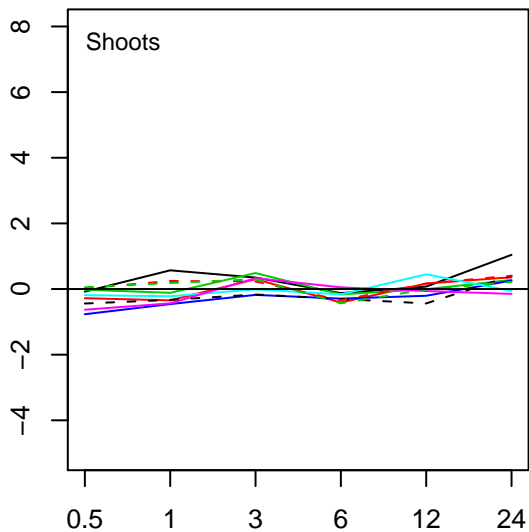
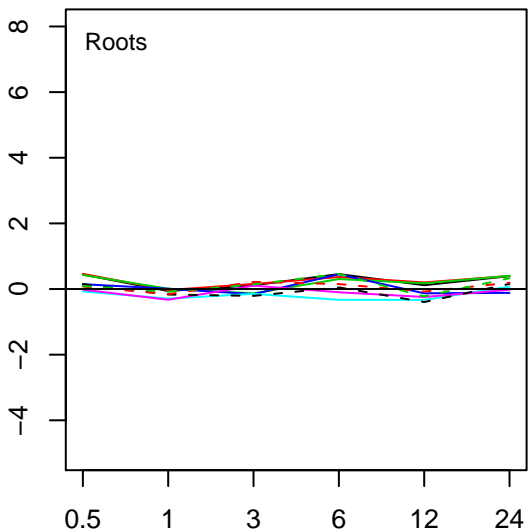
- cold
- osmotic
- salt
- drought
- genotoxic
- oxidative
- - - uv-b light
- - - wounding
- - - heat
- - - pathogen

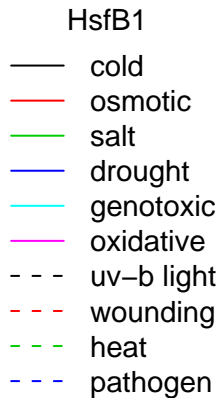
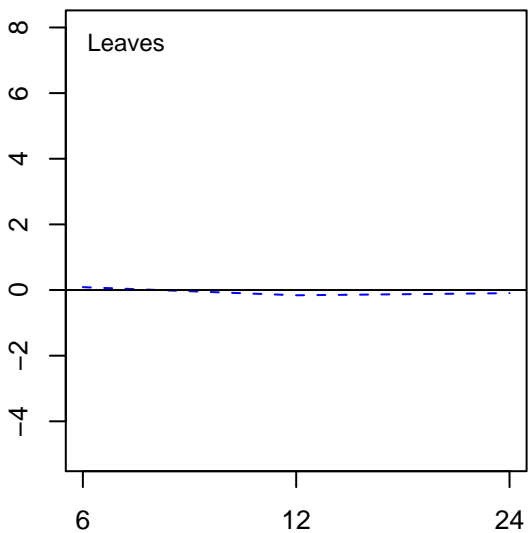
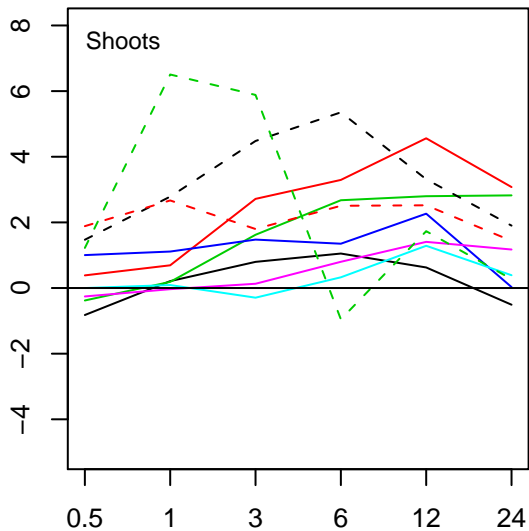
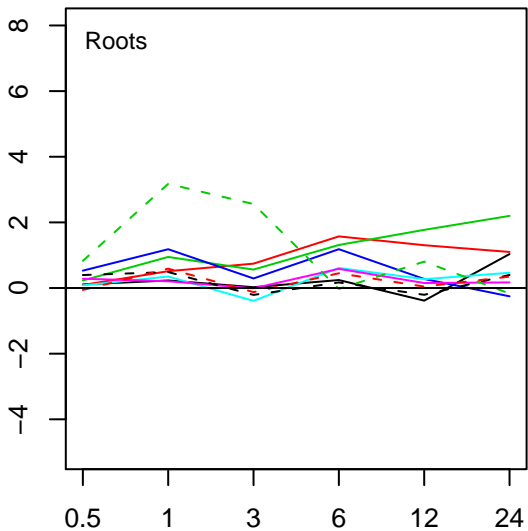


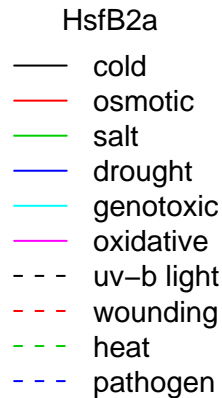
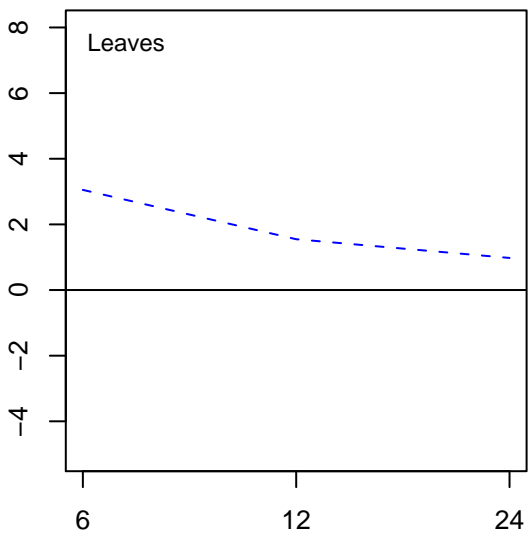
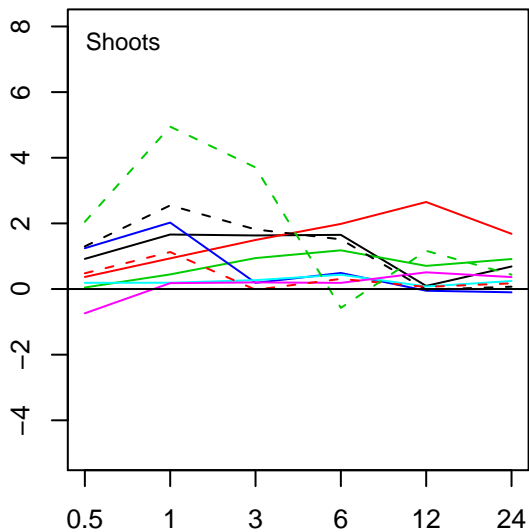
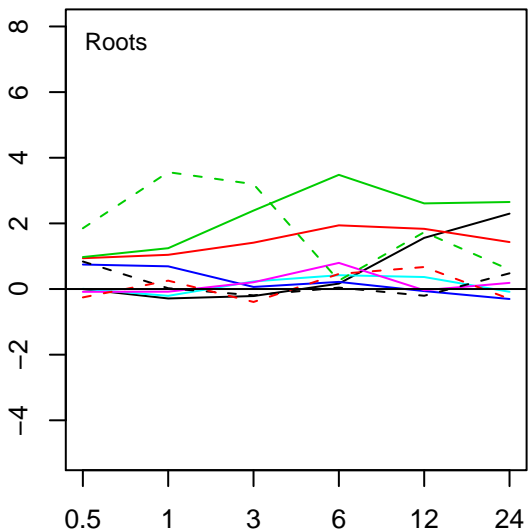


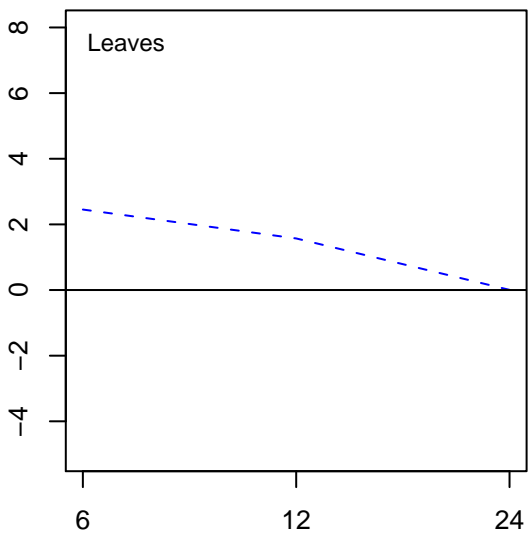
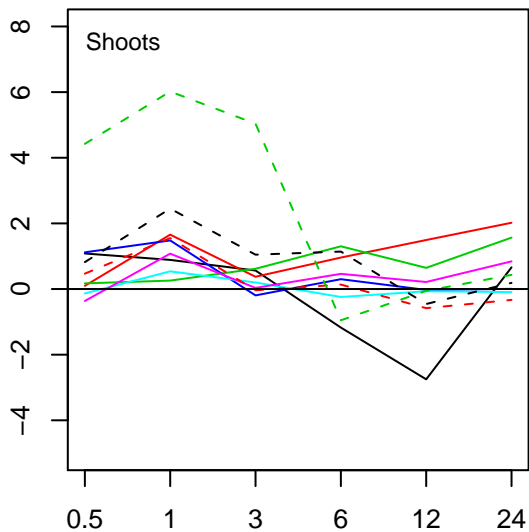
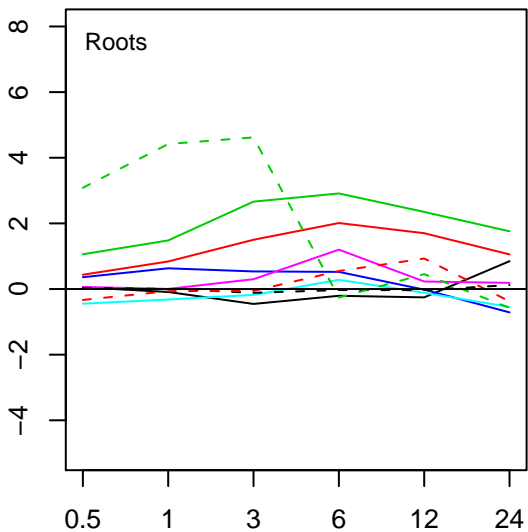
HsfA8

- cold
- osmotic
- salt
- drought
- genotoxic
- oxidative
- - - uv-b light
- - - wounding
- - - heat
- - - pathogen



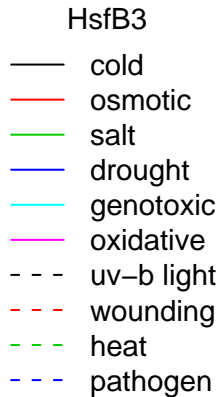
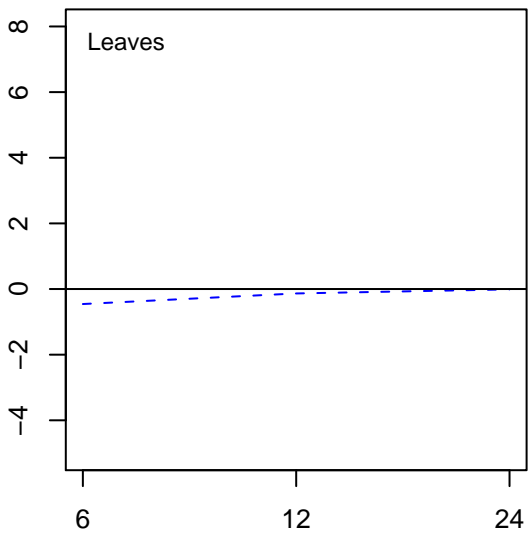
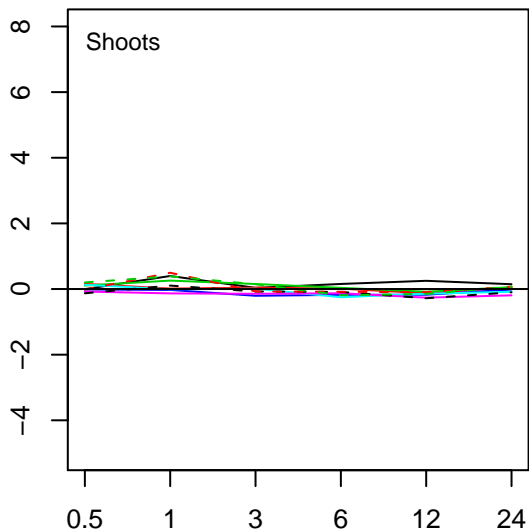
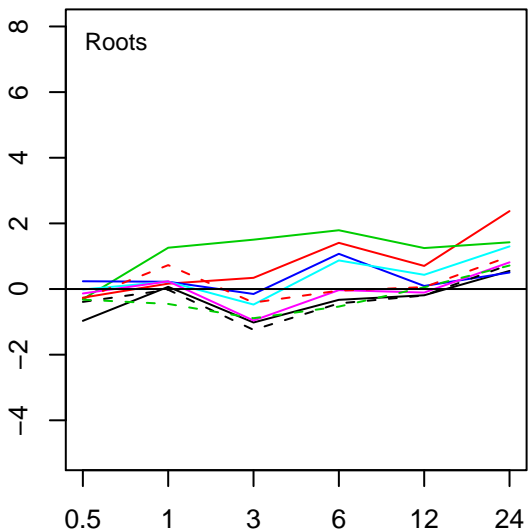


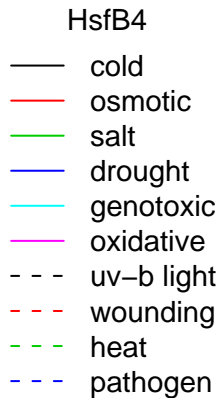
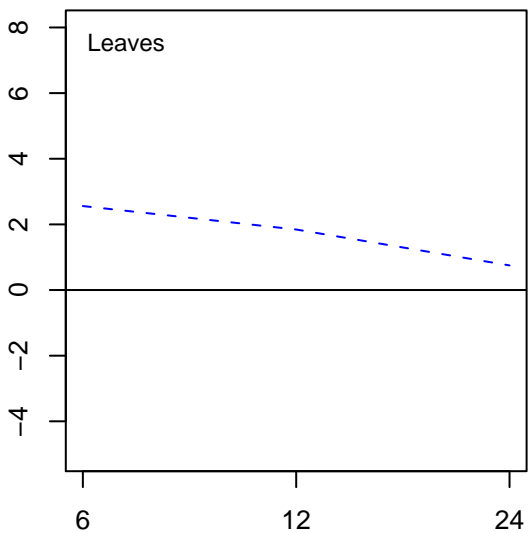
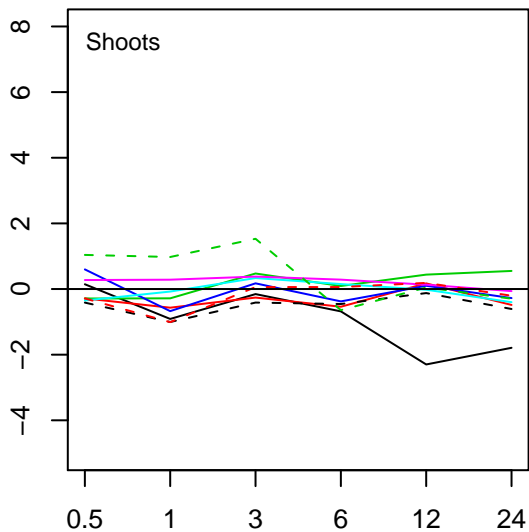
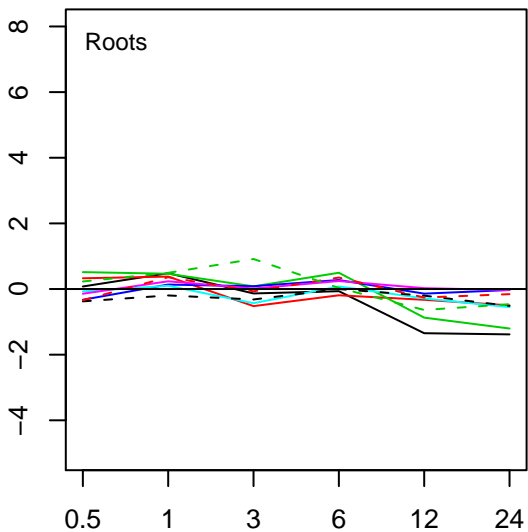


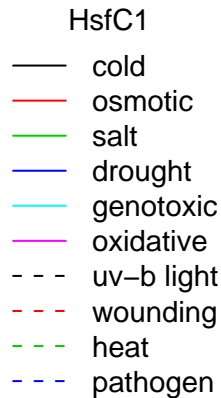
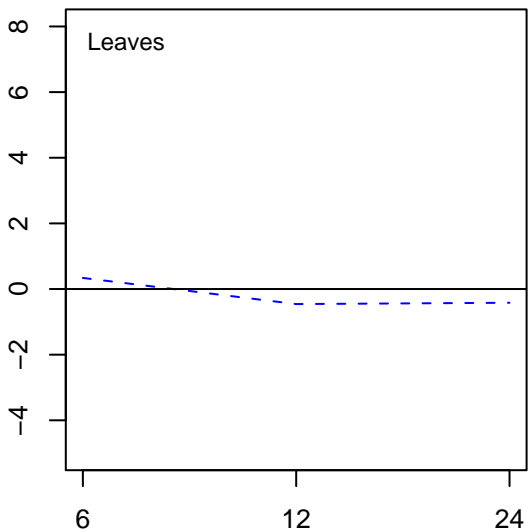
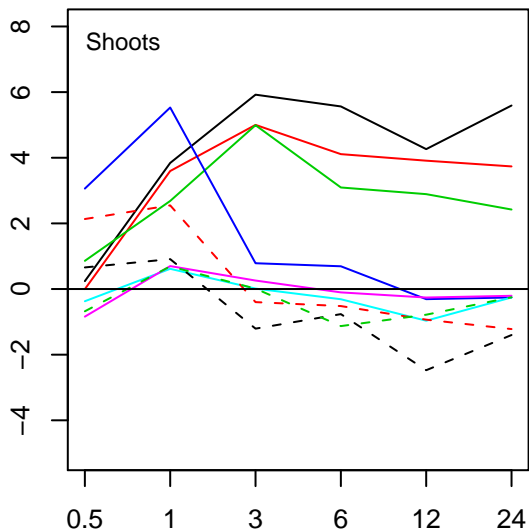
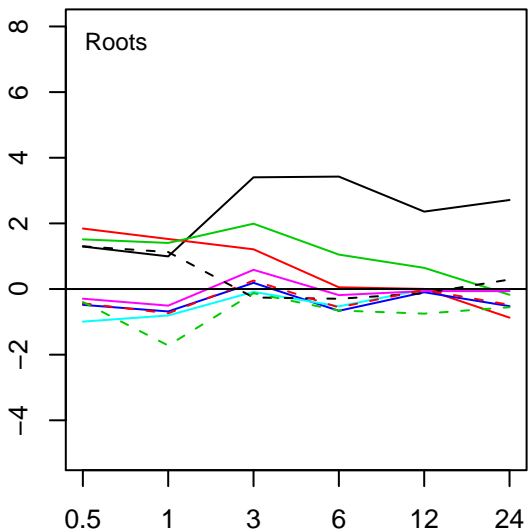


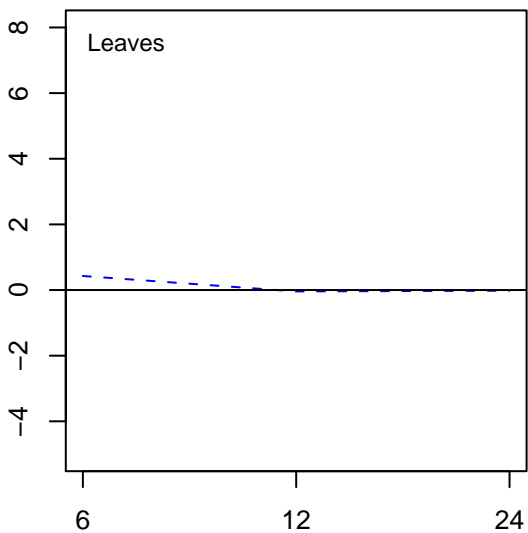
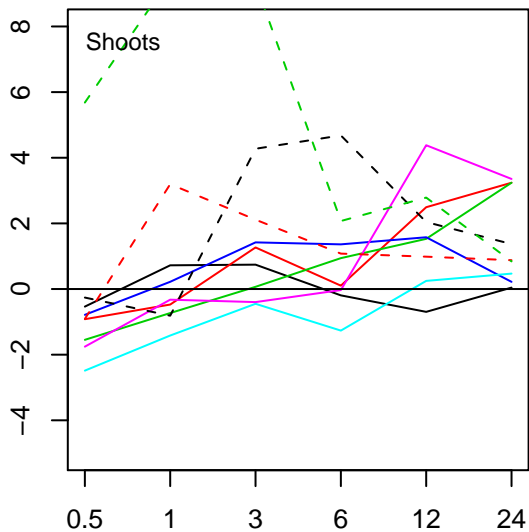
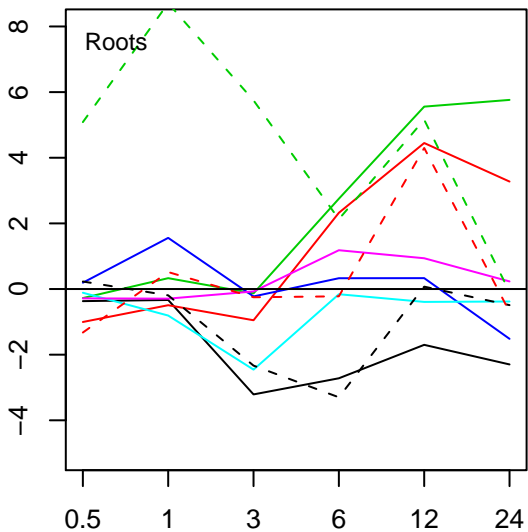
HsfB2b

- cold
- osmotic
- salt
- drought
- genotoxic
- oxidative
- - - uv-b light
- - - wounding
- - - heat
- - - pathogen



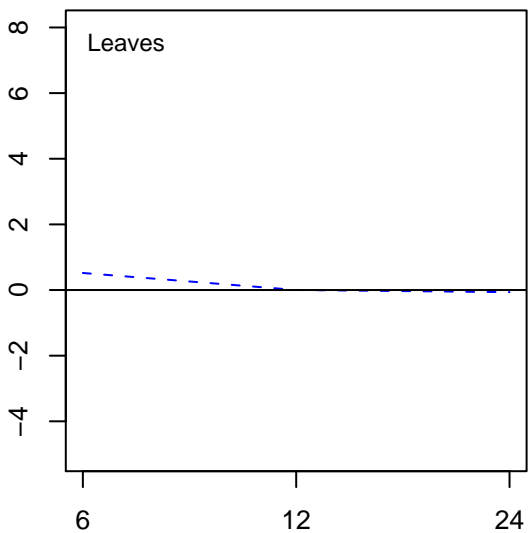
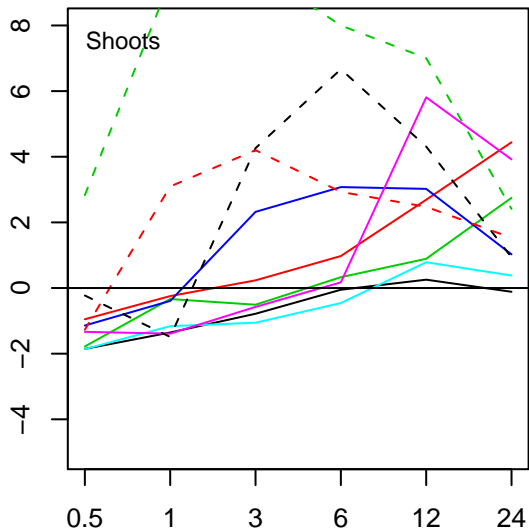
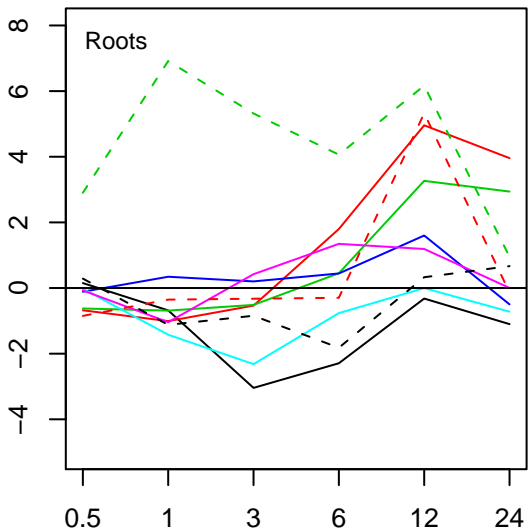






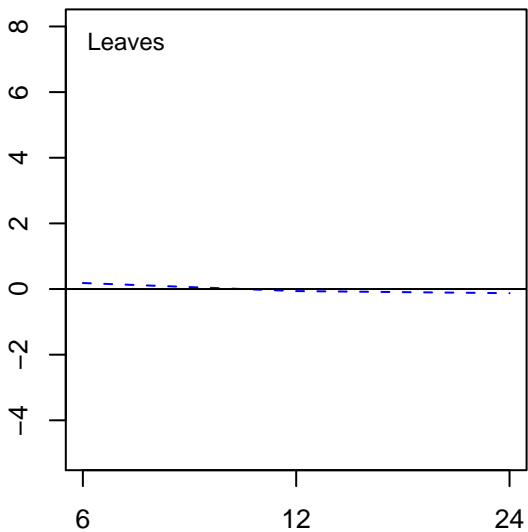
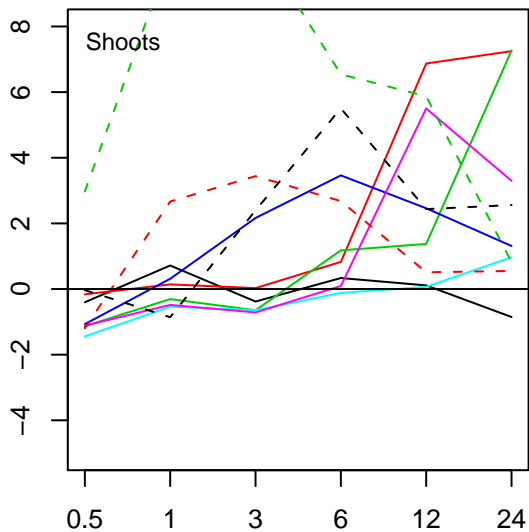
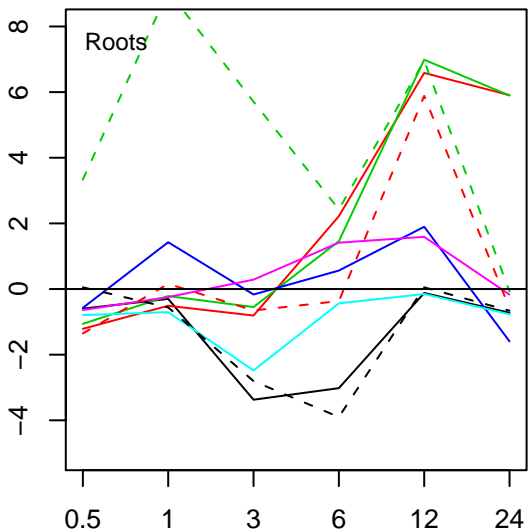
AtHsp17.6A-CI

- cold
- osmotic
- salt
- drought
- genotoxic
- oxidative
- - - uv-b light
- - - wounding
- - - heat
- - - pathogen



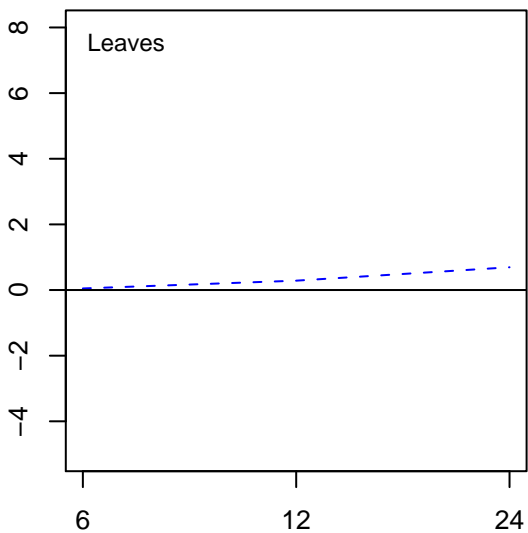
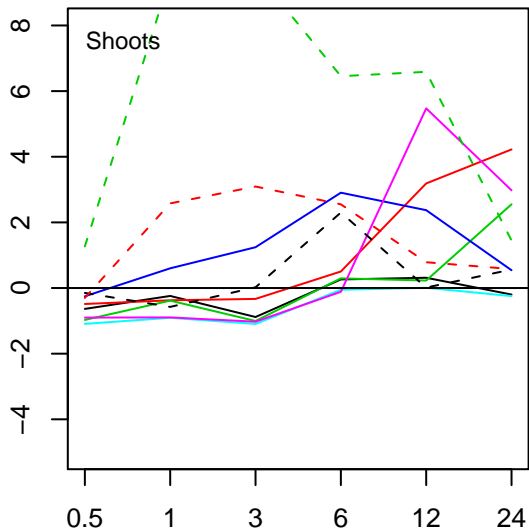
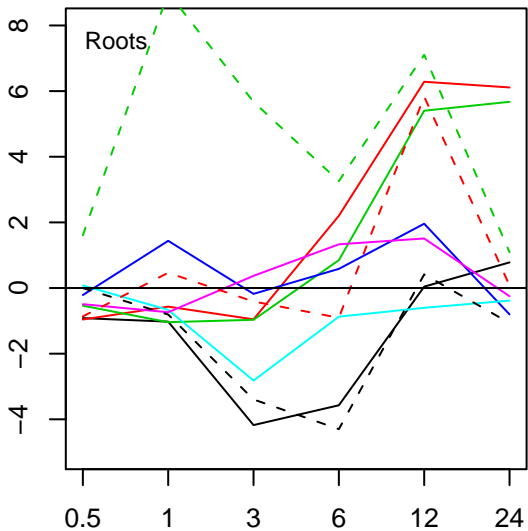
AtHsp17.6B-CI

- cold
- osmotic
- salt
- drought
- genotoxic
- oxidative
- - - uv-b light
- - - wounding
- - - heat
- - - pathogen



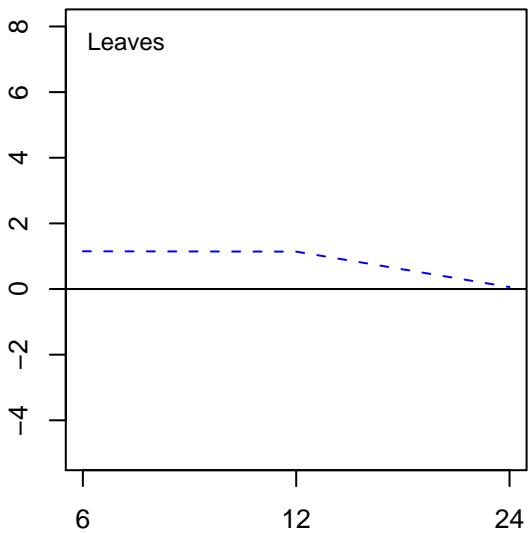
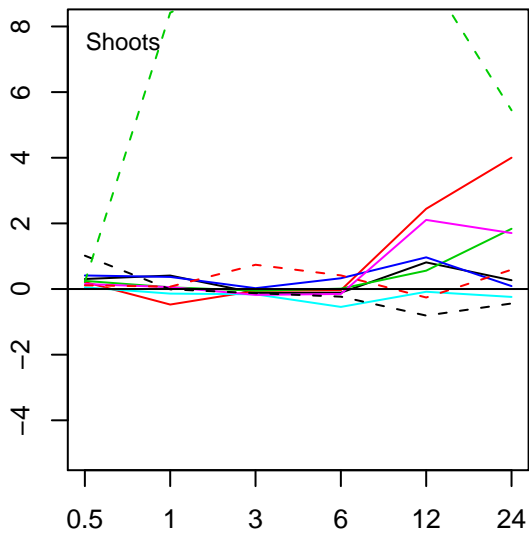
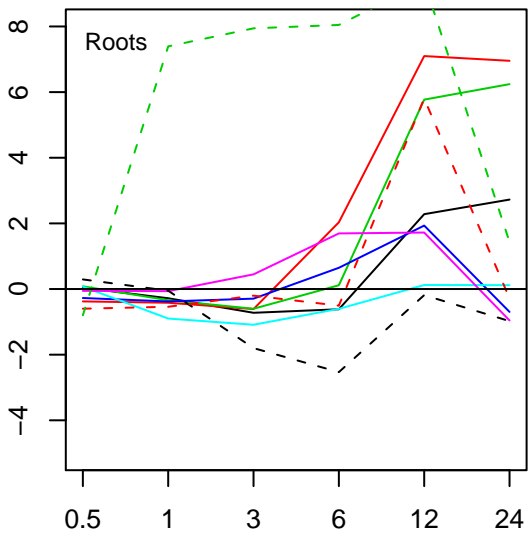
AtHsp17.4-CI

- cold
- osmotic
- salt
- drought
- genotoxic
- oxidative
- - - uv-b light
- - - wounding
- - - heat
- - - pathogen



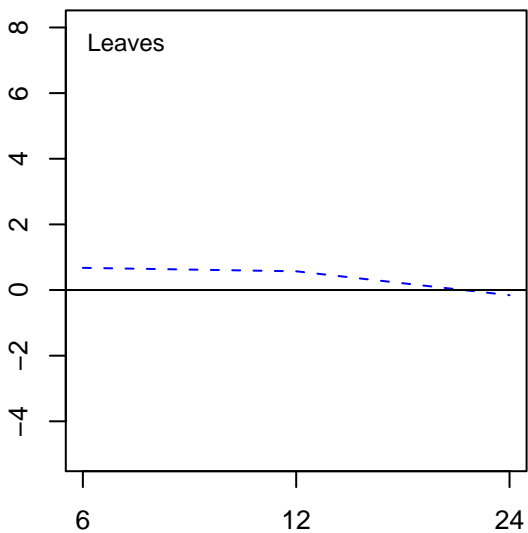
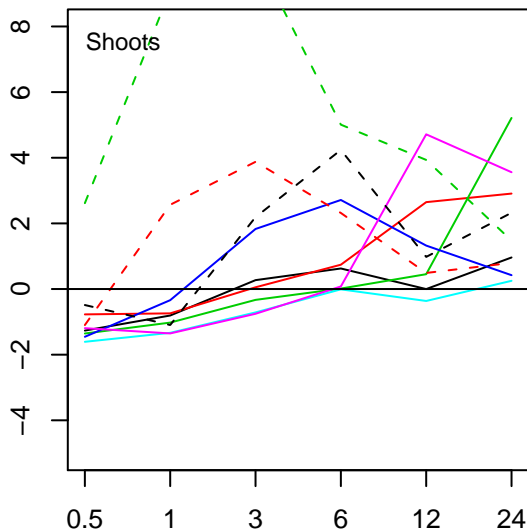
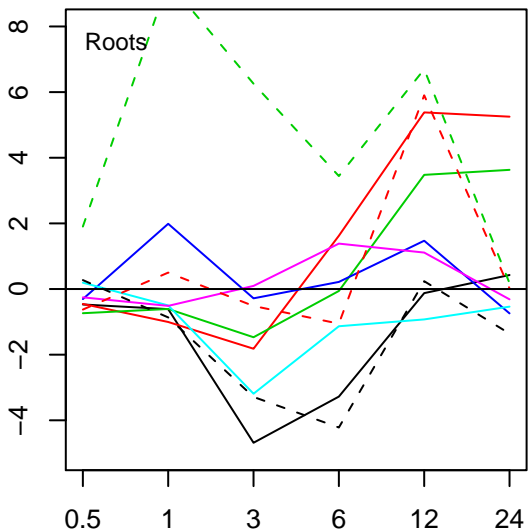
AtHsp17.6C-Cl

- cold
- osmotic
- salt
- drought
- genotoxic
- oxidative
- - - uv-b light
- - - wounding
- - - heat
- - - pathogen



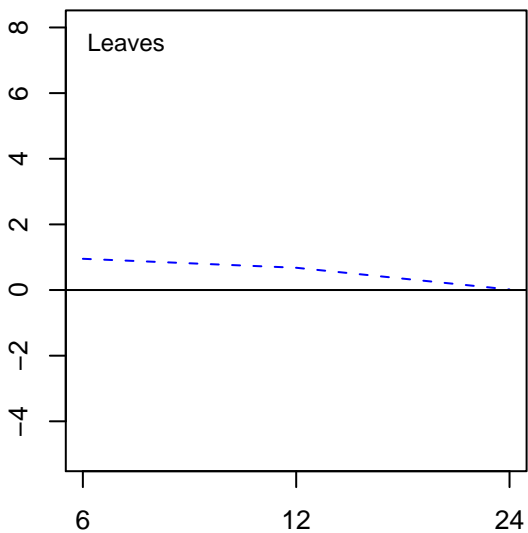
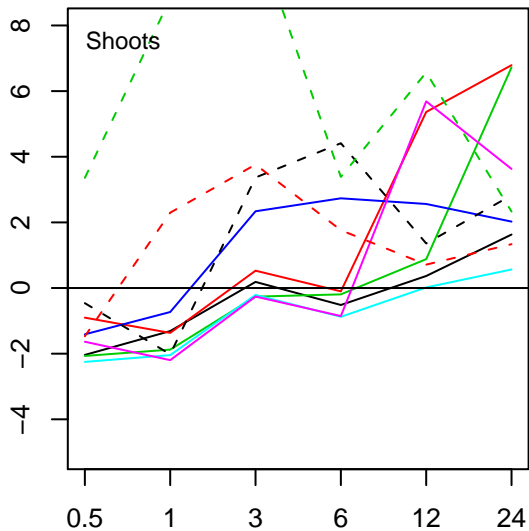
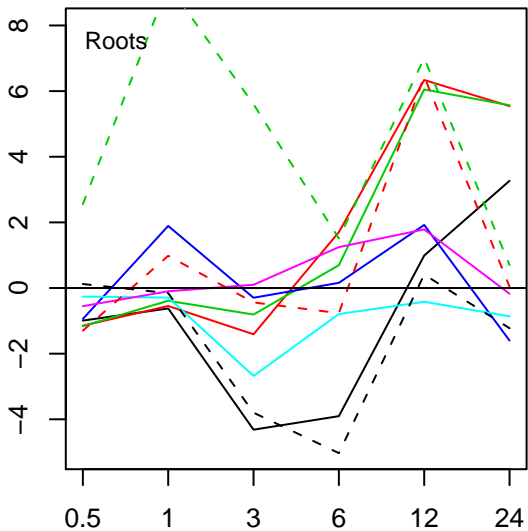
AtHsp18.1-CI

- cold
- osmotic
- salt
- drought
- genotoxic
- oxidative
- - - uv-b light
- - - wounding
- - - heat
- - - pathogen



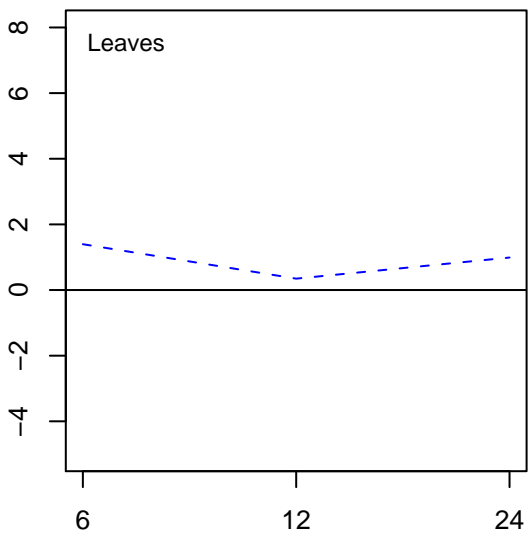
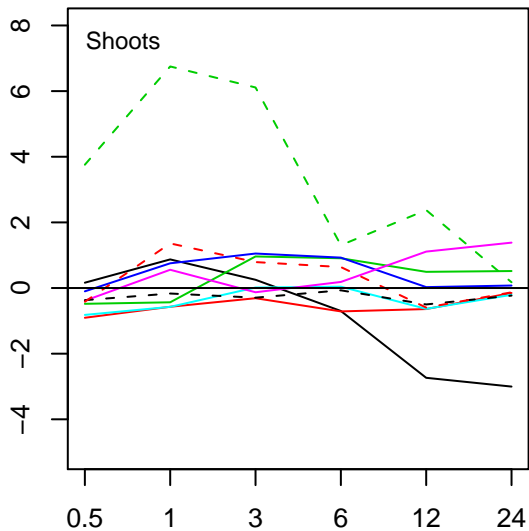
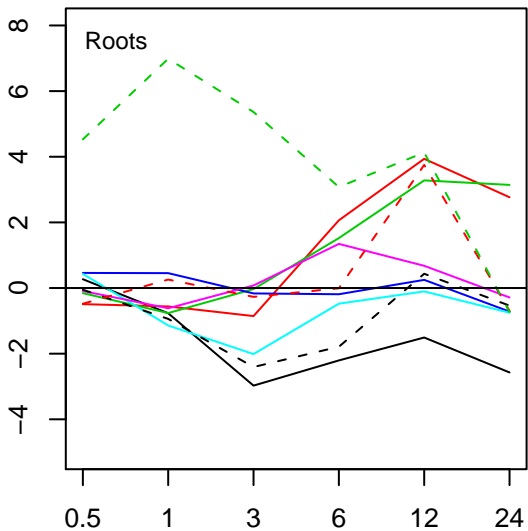
AtHsp17.6-CII

- cold
- osmotic
- salt
- drought
- genotoxic
- oxidative
- - - uv-b light
- - - wounding
- - - heat
- - - pathogen



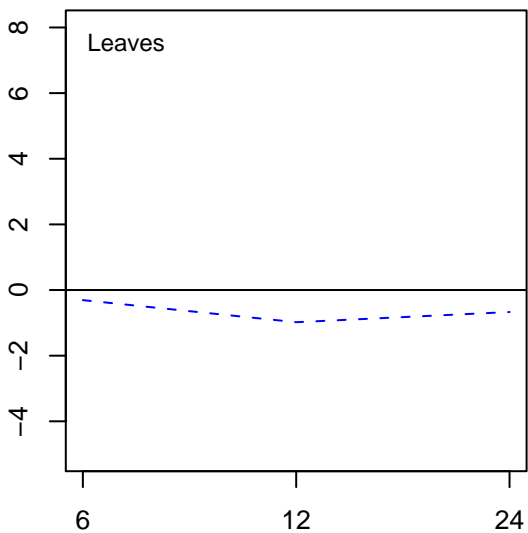
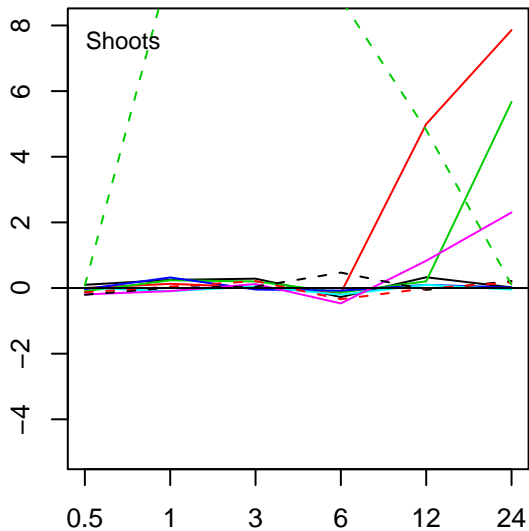
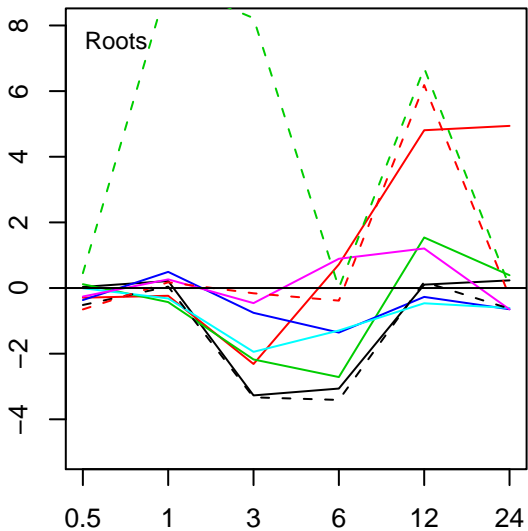
AtHsp17.7-CII

- cold
- osmotic
- salt
- drought
- genotoxic
- oxidative
- - - uv-b light
- - - wounding
- - - heat
- - - pathogen



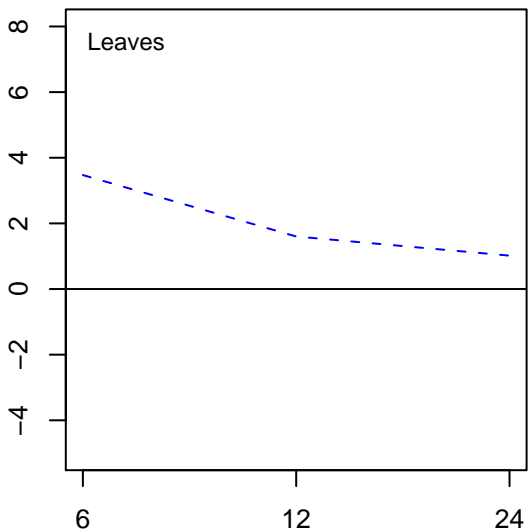
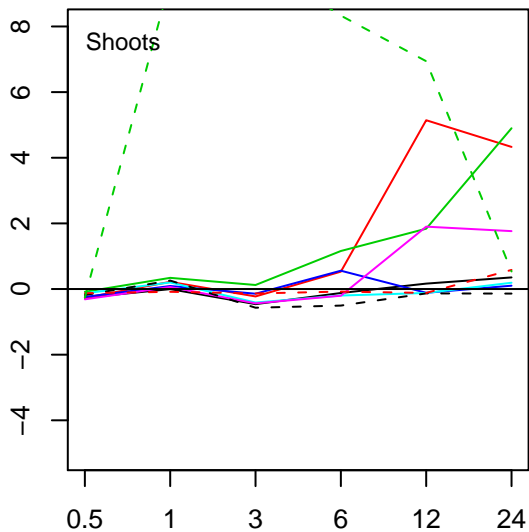
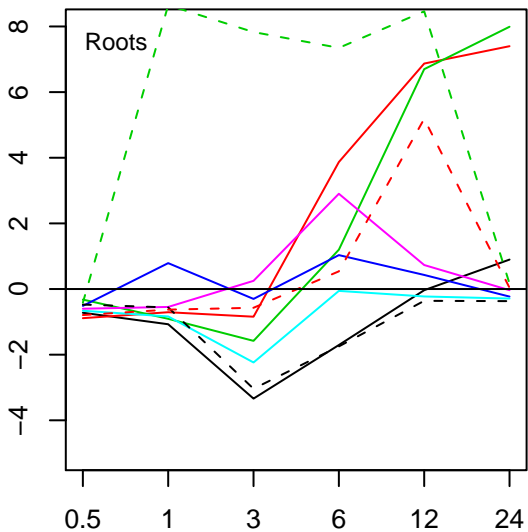
AtHsp17.4-CIII

- cold
- osmotic
- salt
- drought
- genotoxic
- oxidative
- - - uv-b light
- - - wounding
- - - heat
- - - pathogen



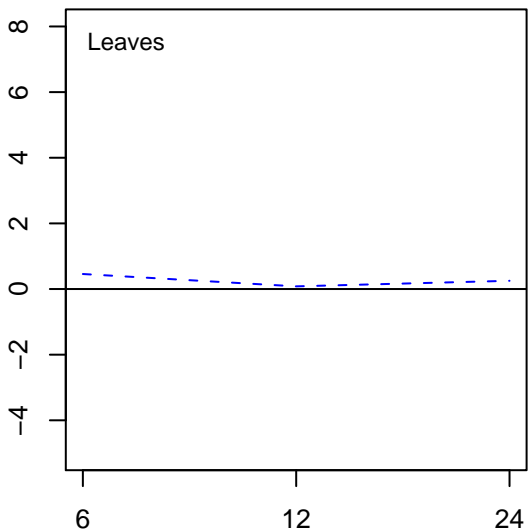
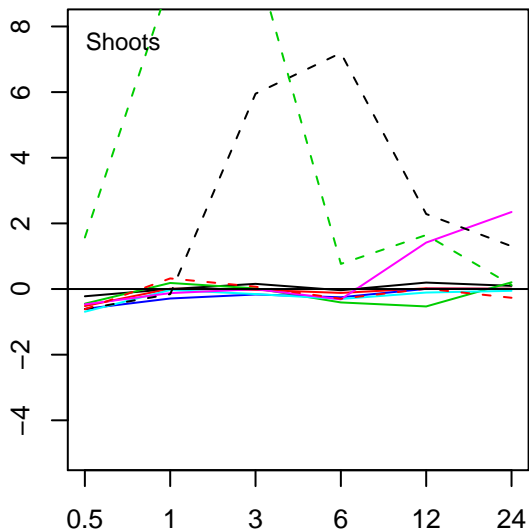
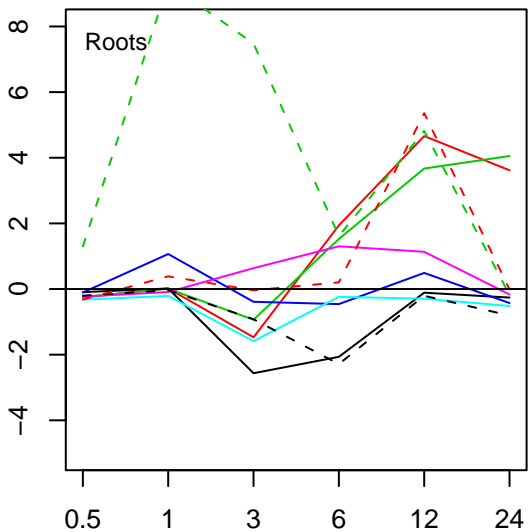
AtHsp25.4-P

- cold
- osmotic
- salt
- drought
- genotoxic
- oxidative
- - - uv-b light
- - - wounding
- - - heat
- - - pathogen



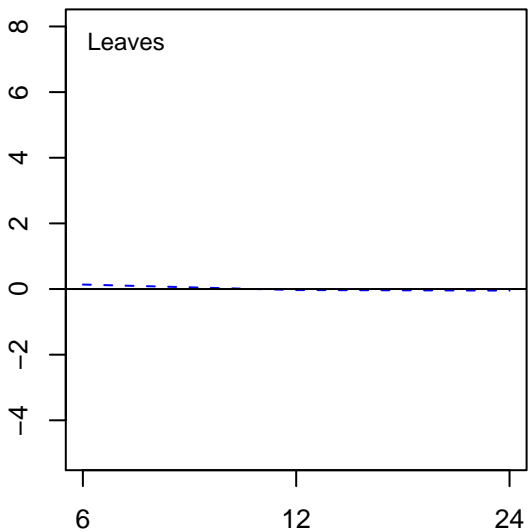
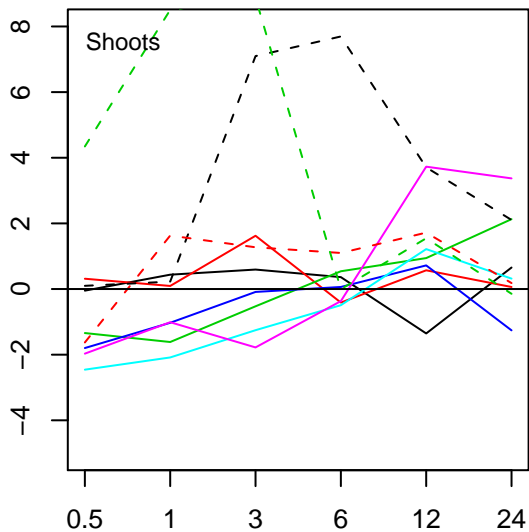
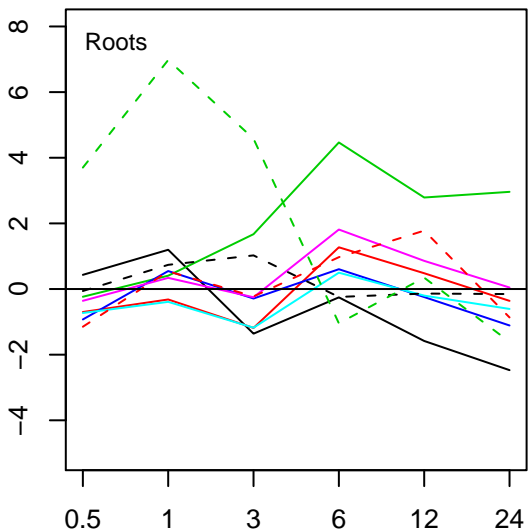
AtHsp22.0-ER

- cold
- osmotic
- salt
- drought
- genotoxic
- oxidative
- - - uv-b light
- - - wounding
- - - heat
- - - pathogen



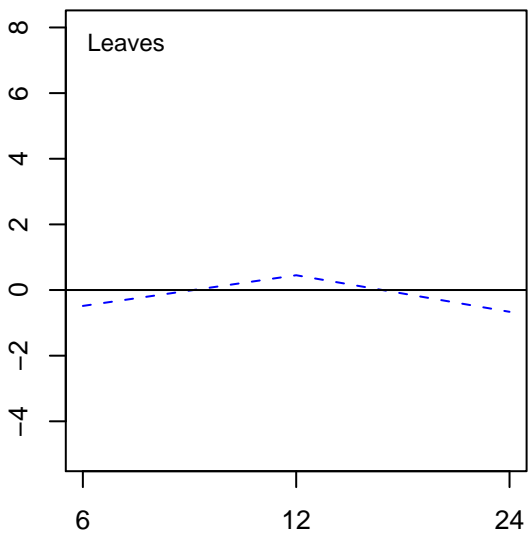
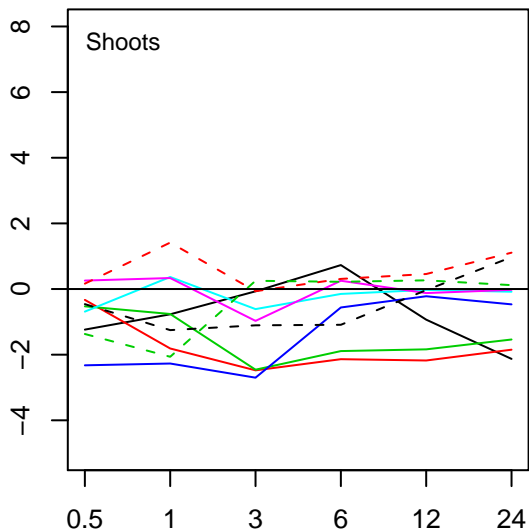
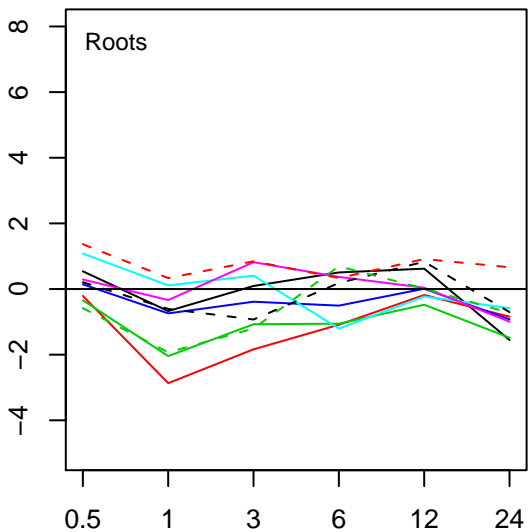
AtHsp23.6-M

- cold
- osmotic
- salt
- drought
- genotoxic
- oxidative
- - - uv-b light
- - - wounding
- - - heat
- - - pathogen



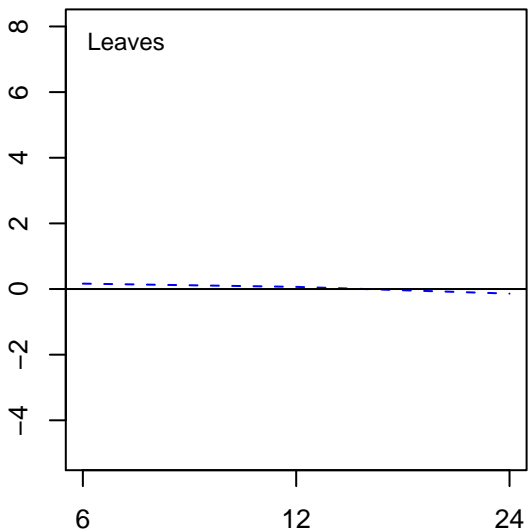
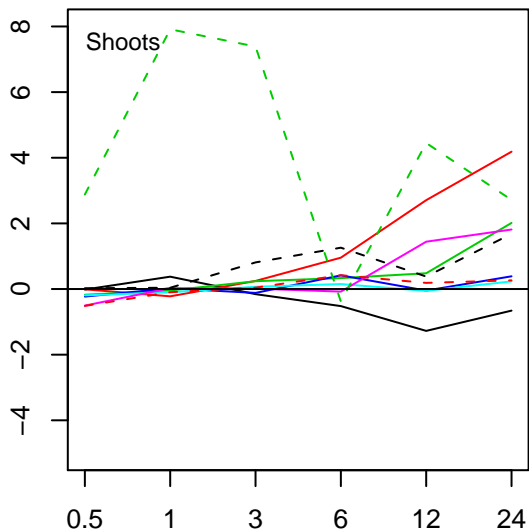
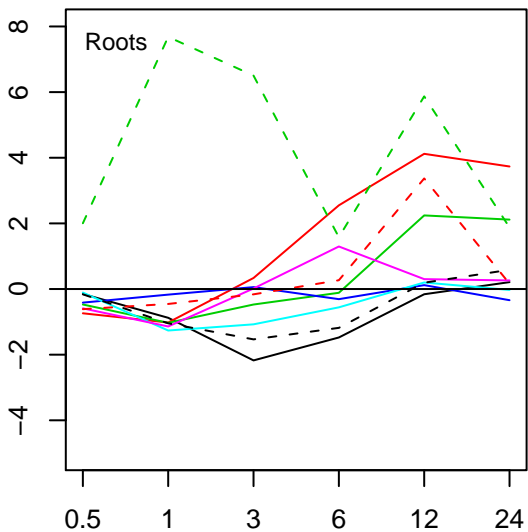
AtHsp23.5-M

- cold
- osmotic
- salt
- drought
- genotoxic
- oxidative
- - - uv-b light
- - - wounding
- - - heat
- - - pathogen



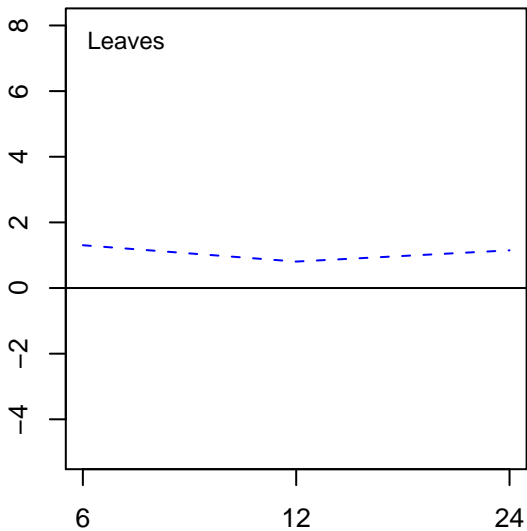
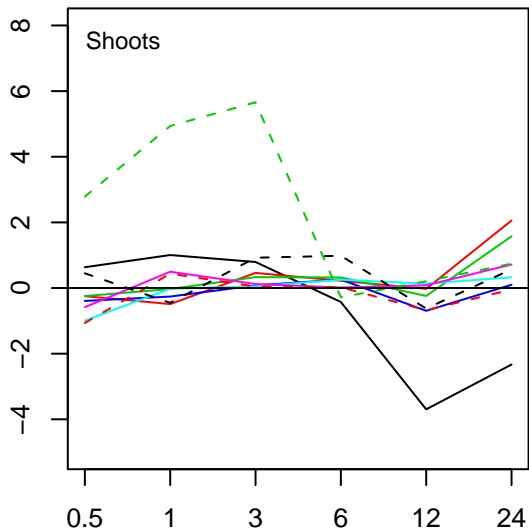
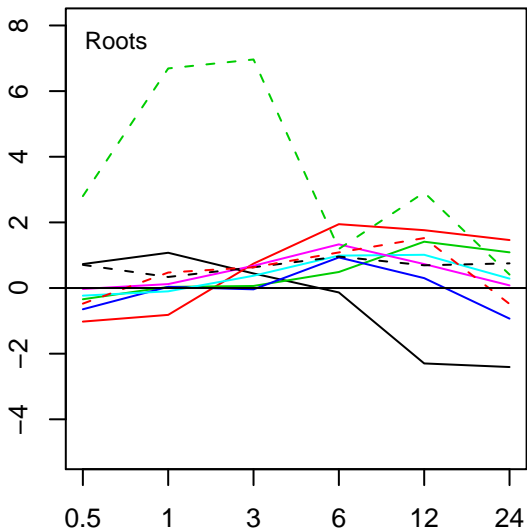
AtHsp15.4-CI(r)

- cold
- osmotic
- salt
- drought
- genotoxic
- oxidative
- - - uv-b light
- - - wounding
- - - heat
- - - pathogen



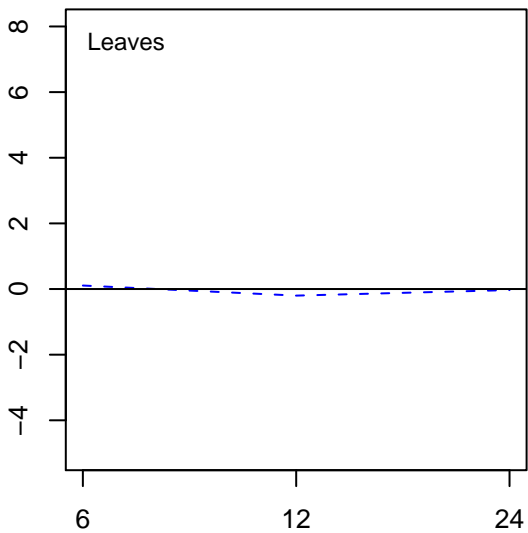
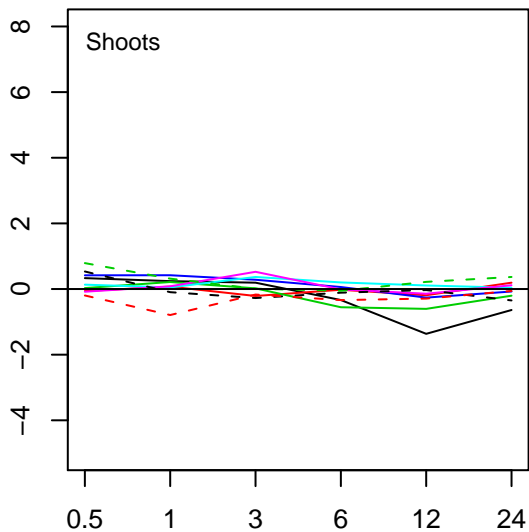
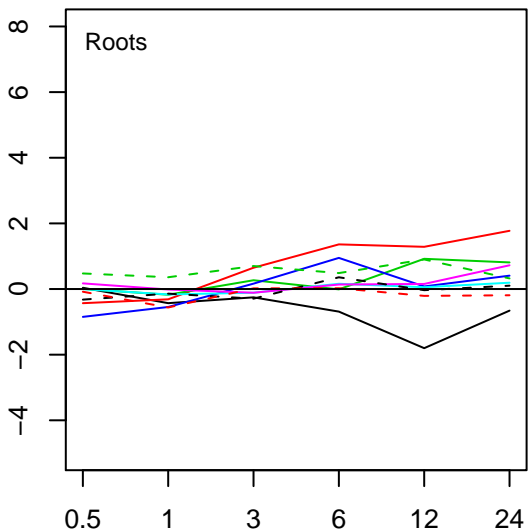
AtHsp15.7-Cl(r)

- cold
- osmotic
- salt
- drought
- genotoxic
- oxidative
- - - uv-b light
- - - wounding
- - - heat
- - - pathogen



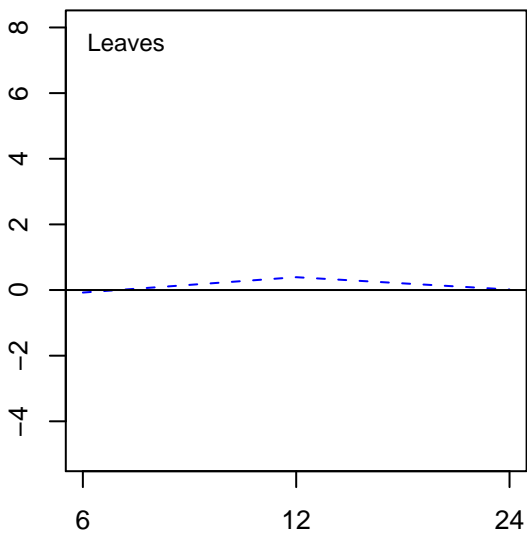
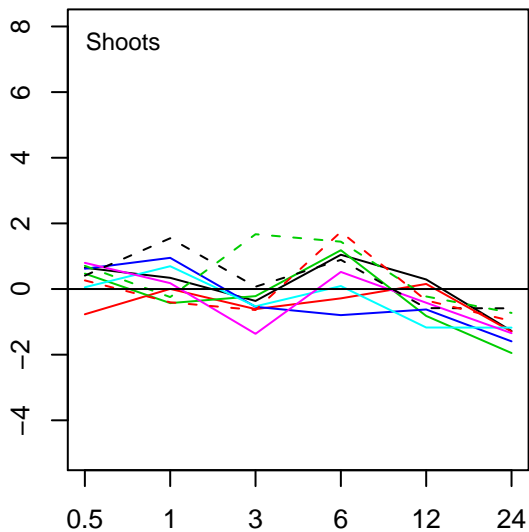
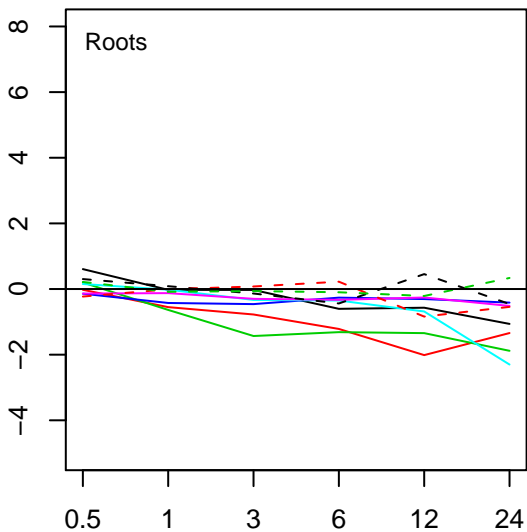
AtHsp18.5-Cl(r)

- cold
- osmotic
- salt
- drought
- genotoxic
- oxidative
- - - uv-b light
- - - wounding
- - - heat
- - - pathogen



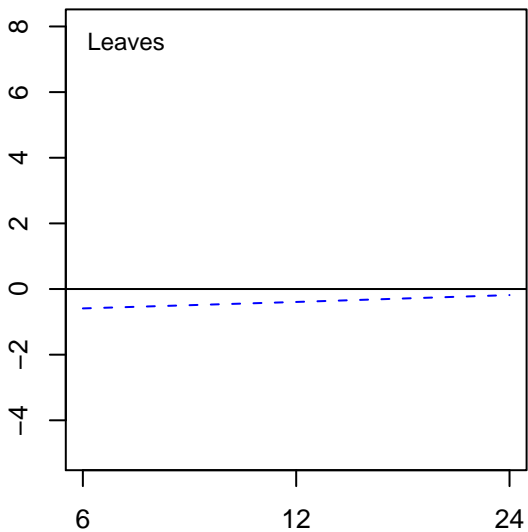
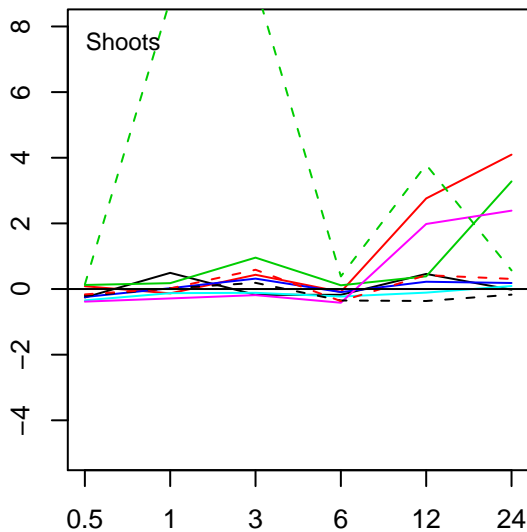
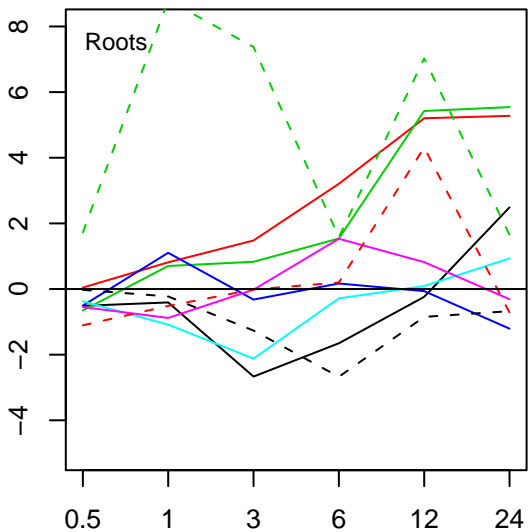
AtHsp21.7-Cl(r)

- cold
- osmotic
- salt
- drought
- genotoxic
- oxidative
- - - uv-b light
- - - wounding
- - - heat
- - - pathogen



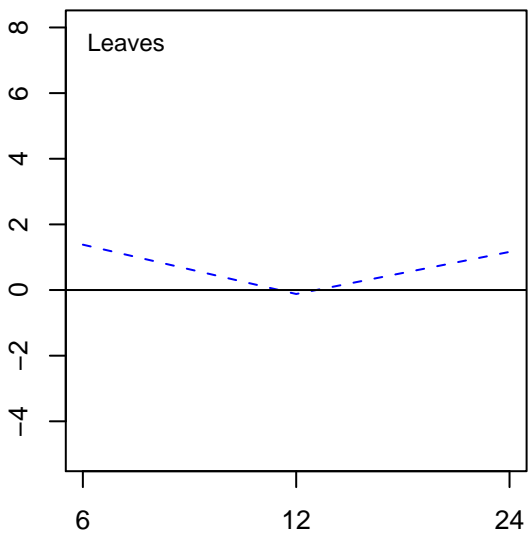
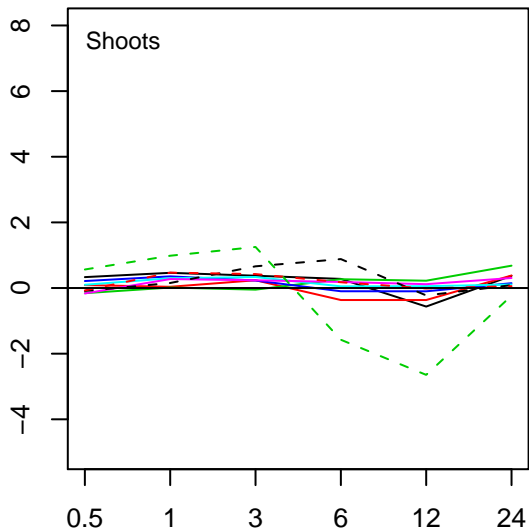
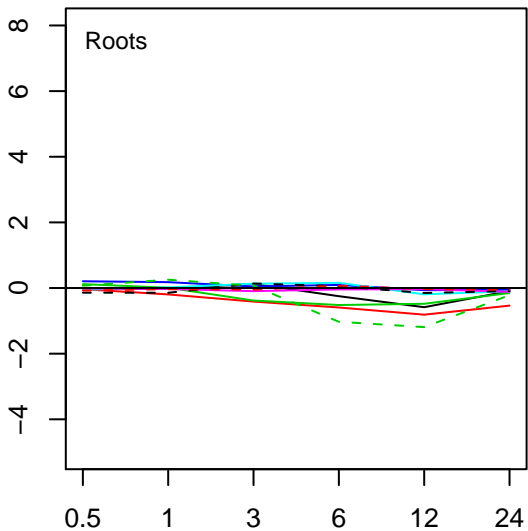
AtHsp14.2-P(r)

- cold
- osmotic
- salt
- drought
- genotoxic
- oxidative
- - - uv-b light
- - - wounding
- - - heat
- - - pathogen

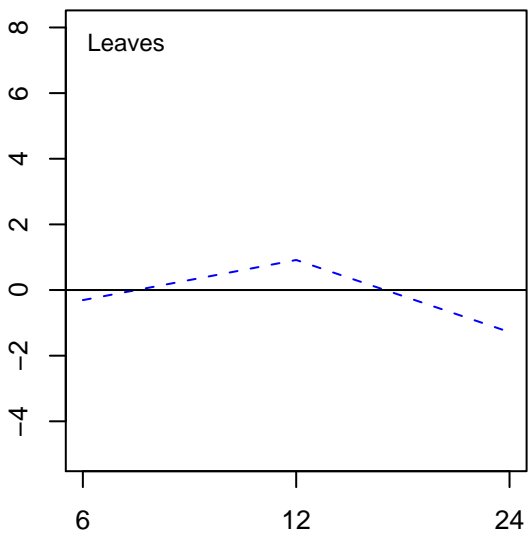
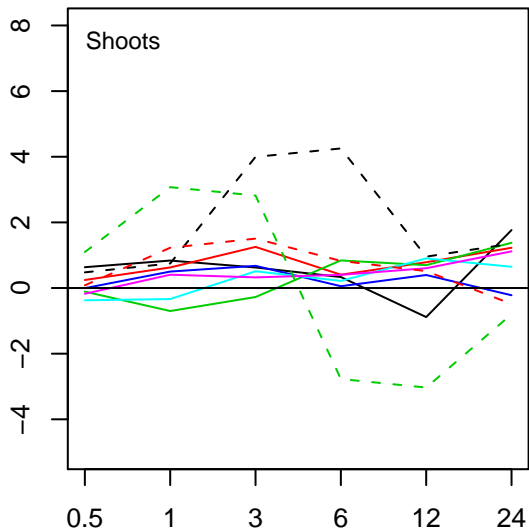
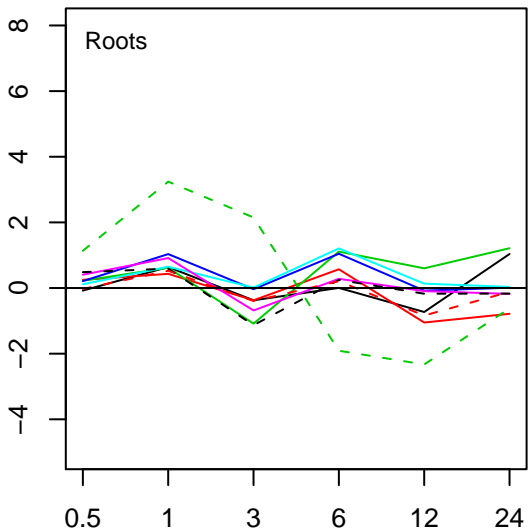


AtHsp26.5-P(r)

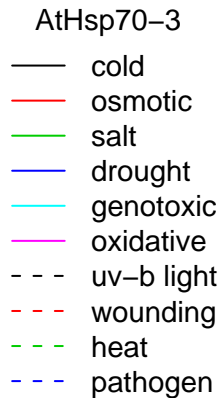
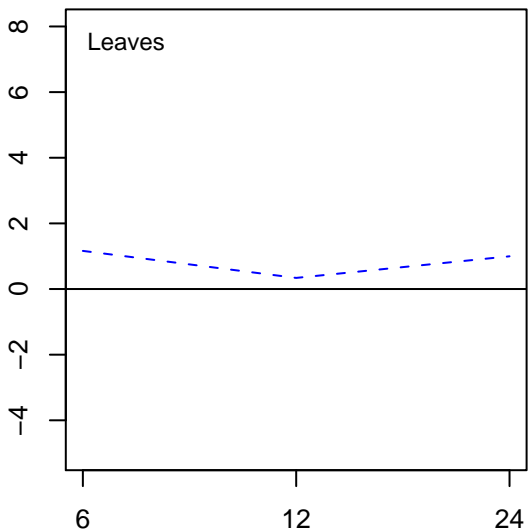
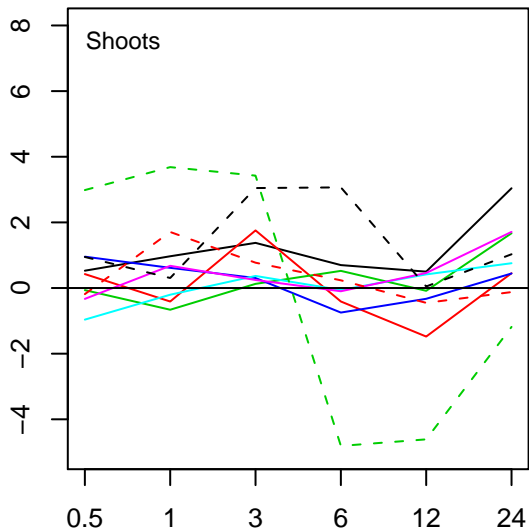
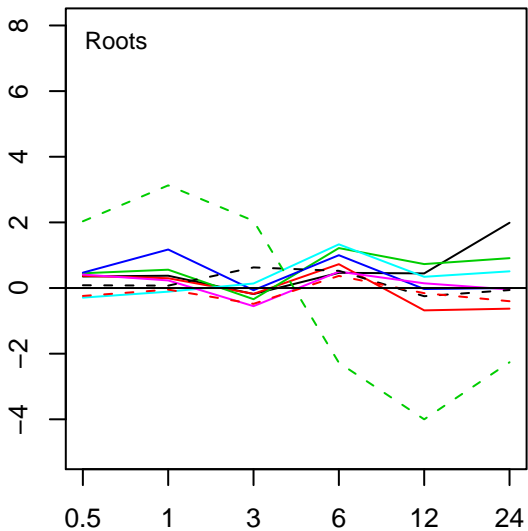
- cold
- osmotic
- salt
- drought
- genotoxic
- oxidative
- - - uv-b light
- - - wounding
- - - heat
- - - pathogen

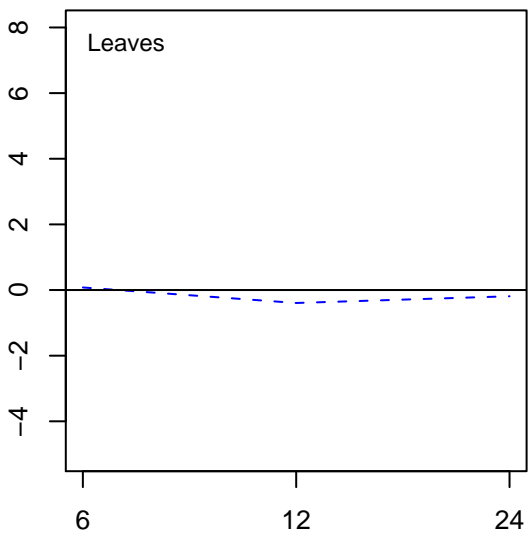
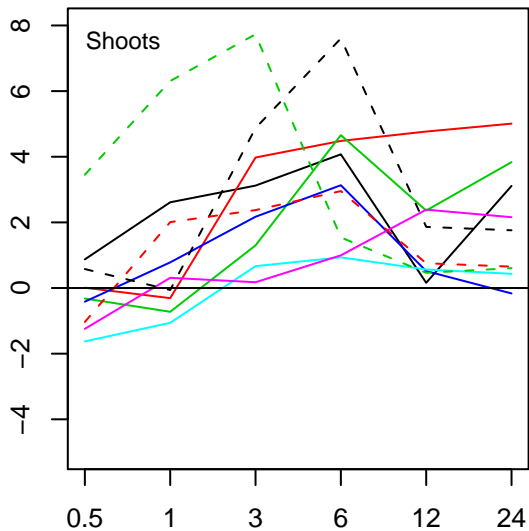
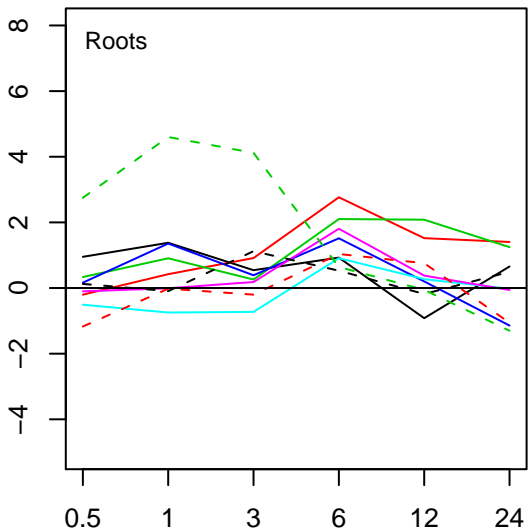


- AtHsp70-1
- cold
 - osmotic
 - salt
 - drought
 - genotoxic
 - oxidative
 - - - uv-b light
 - - - wounding
 - - - heat
 - - - pathogen

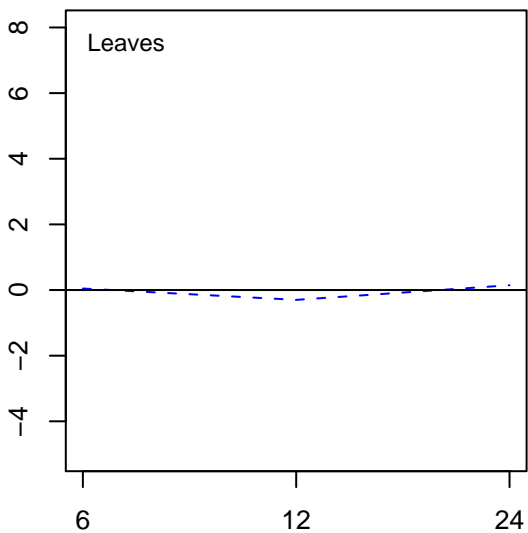
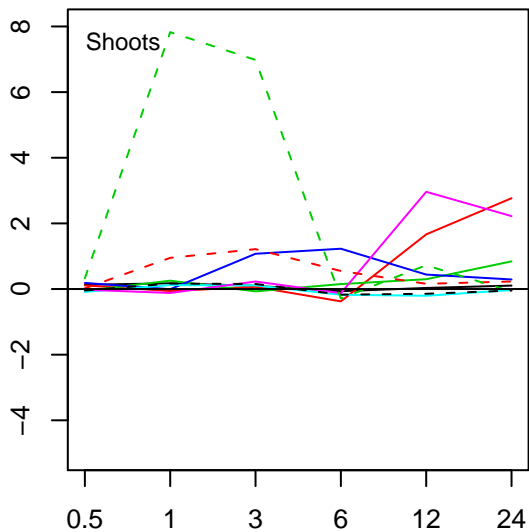
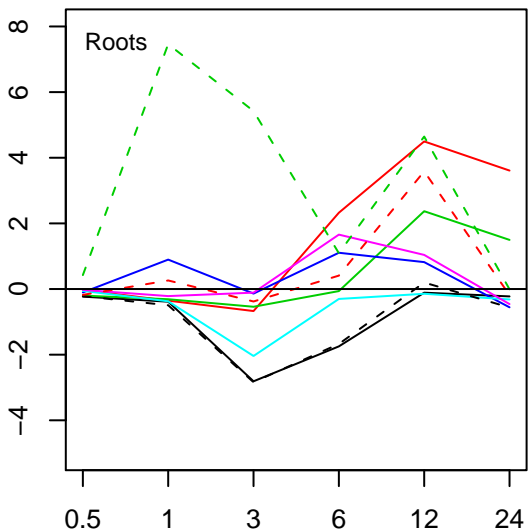


- AtHsp70-2
- cold
 - osmotic
 - salt
 - drought
 - genotoxic
 - oxidative
 - - - uv-b light
 - - - wounding
 - - - heat
 - - - pathogen



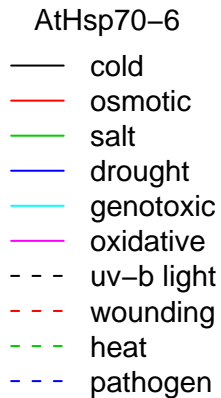
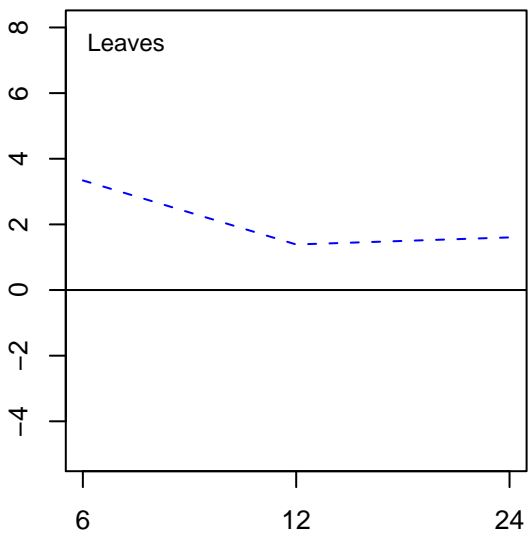
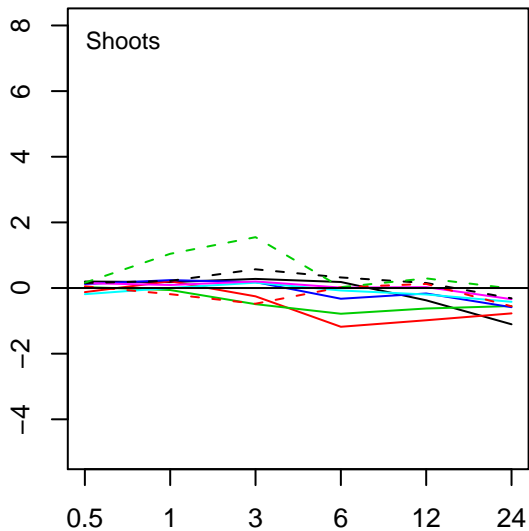
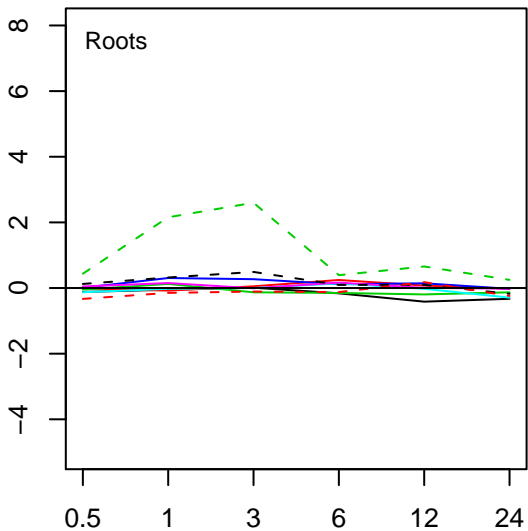


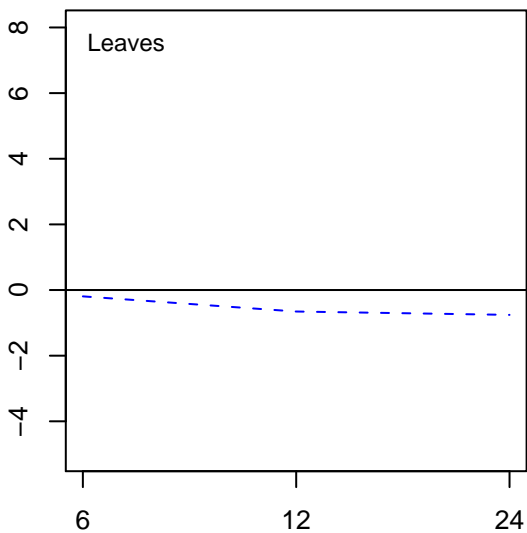
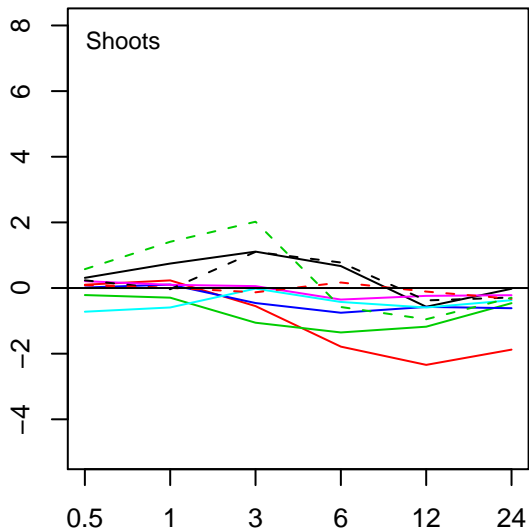
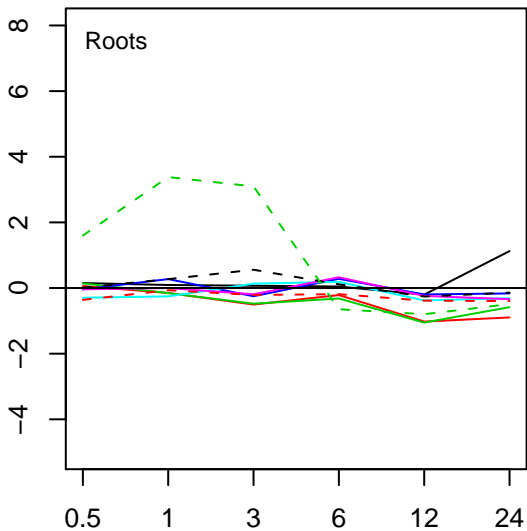
- AtHsp70-4
- cold
 - osmotic
 - salt
 - drought
 - genotoxic
 - oxidative
 - - - uv-b light
 - - - wounding
 - - - heat
 - - - pathogen



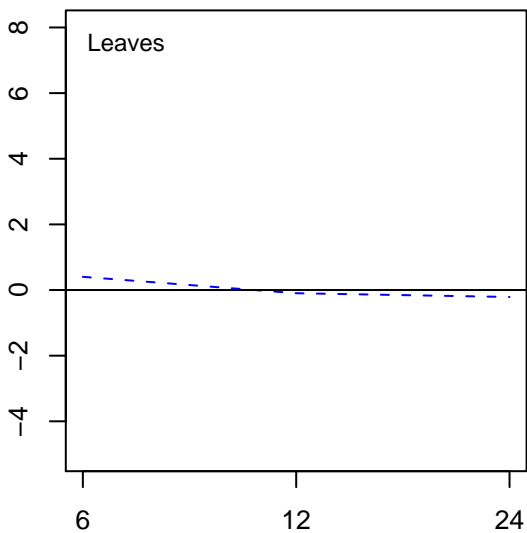
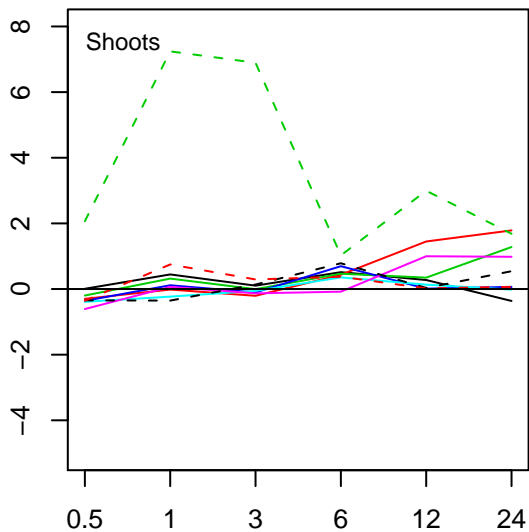
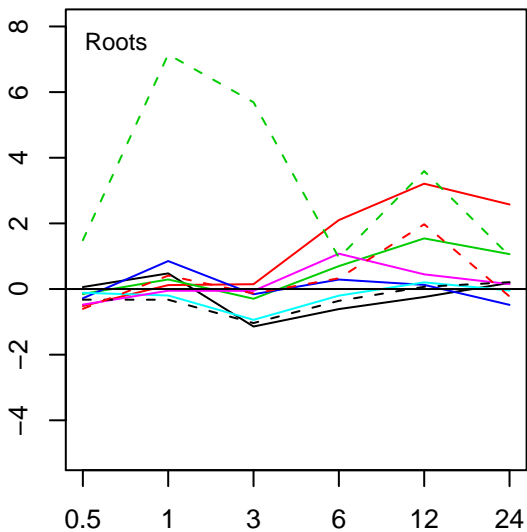
AtHsp70-5

- cold
- osmotic
- salt
- drought
- genotoxic
- oxidative
- - - uv-b light
- - - wounding
- - - heat
- - - pathogen



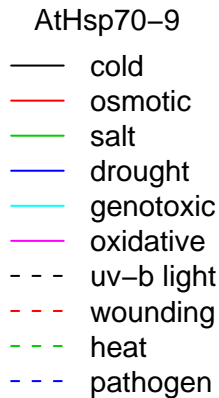
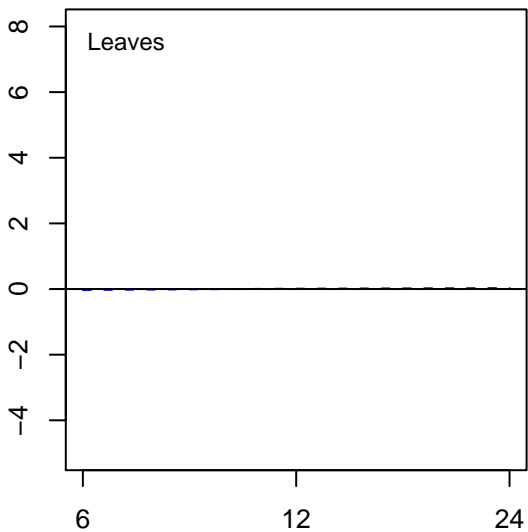
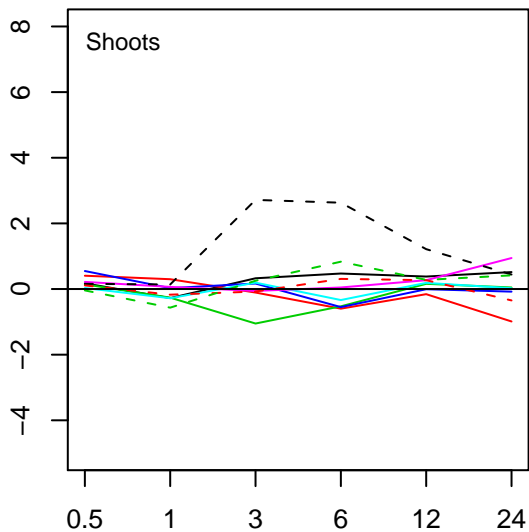
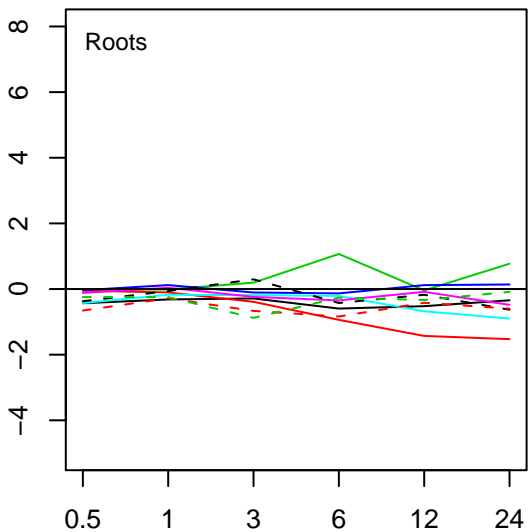


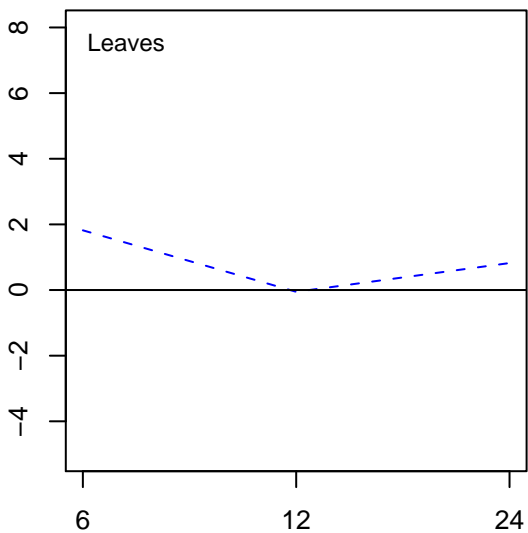
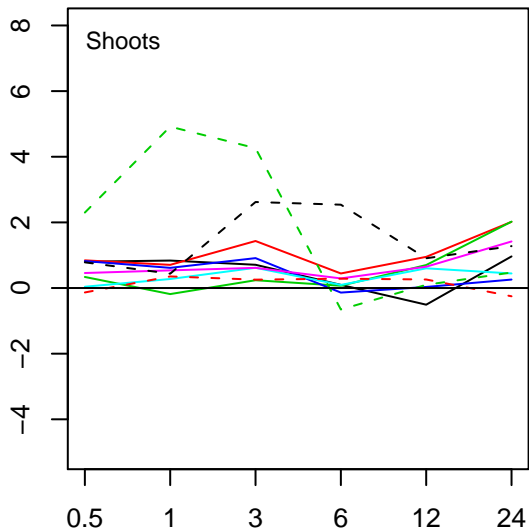
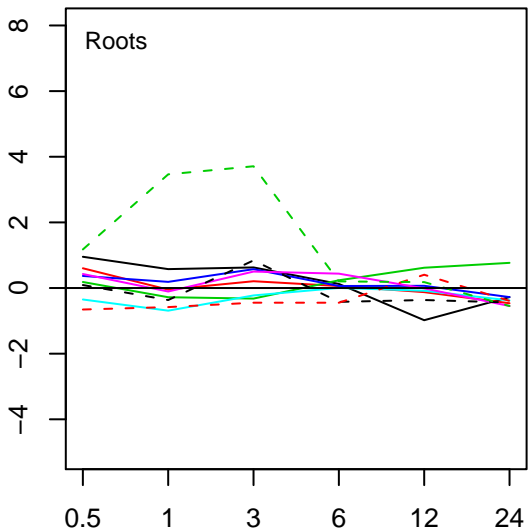
- AtHsp70-7
- cold
 - osmotic
 - salt
 - drought
 - genotoxic
 - oxidative
 - - - uv-b light
 - - - wounding
 - - - heat
 - - - pathogen



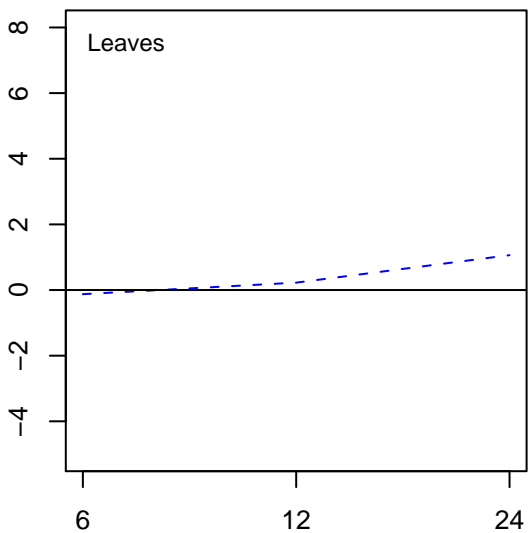
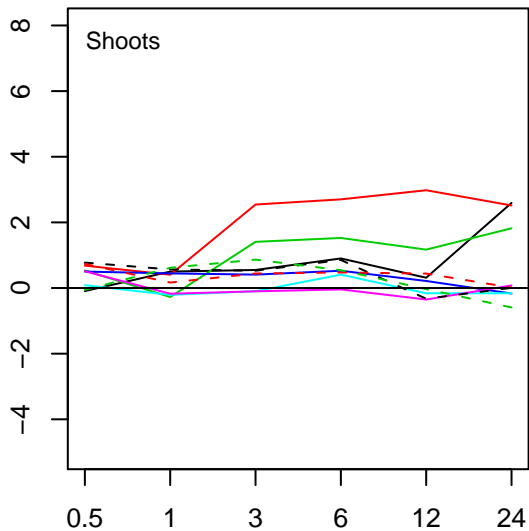
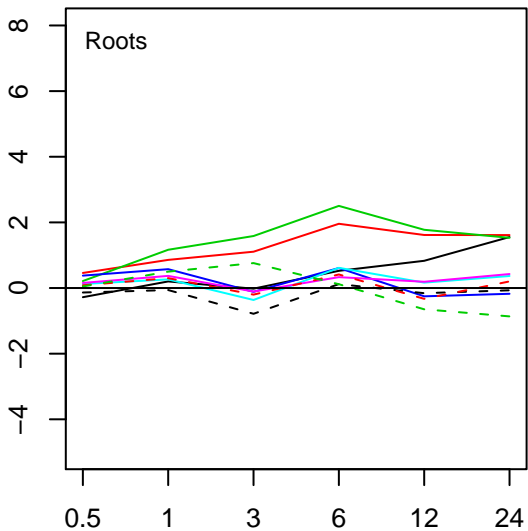
AtHsp70-8

- cold
- osmotic
- salt
- drought
- genotoxic
- oxidative
- - - uv-b light
- - - wounding
- - - heat
- - - pathogen

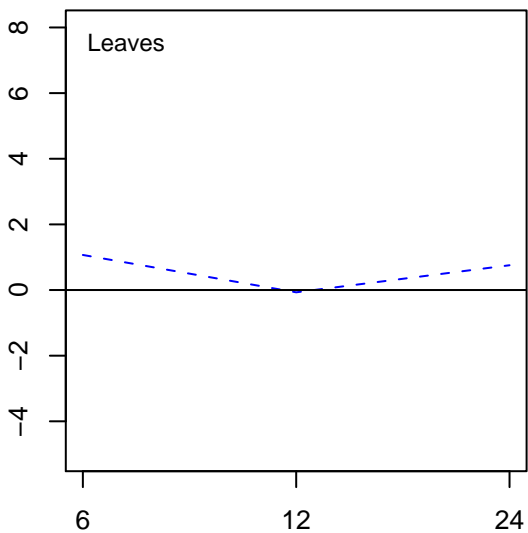
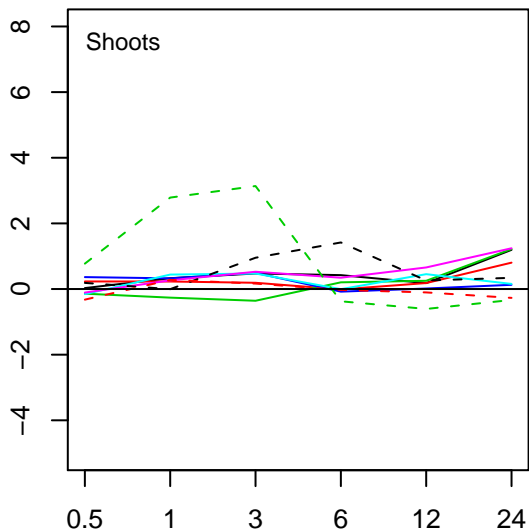
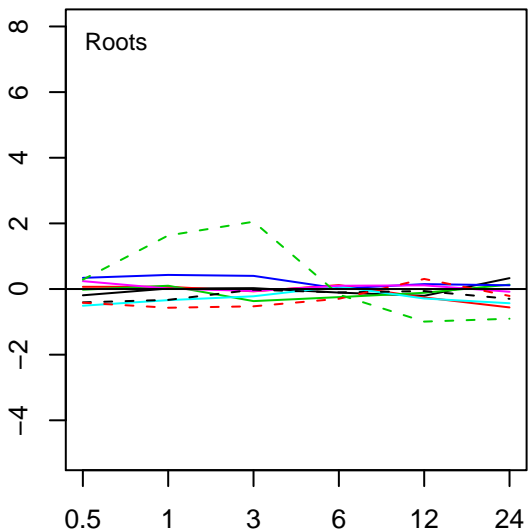




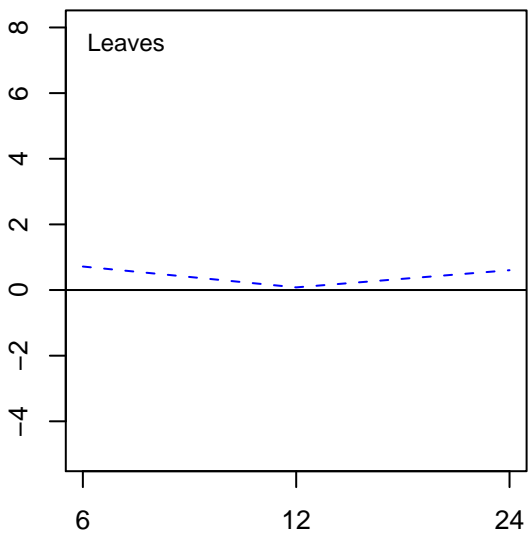
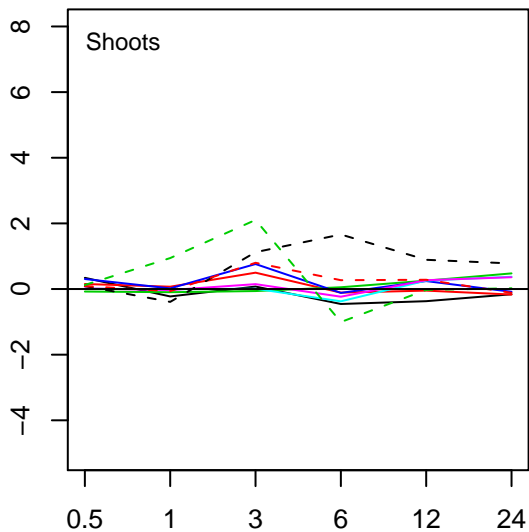
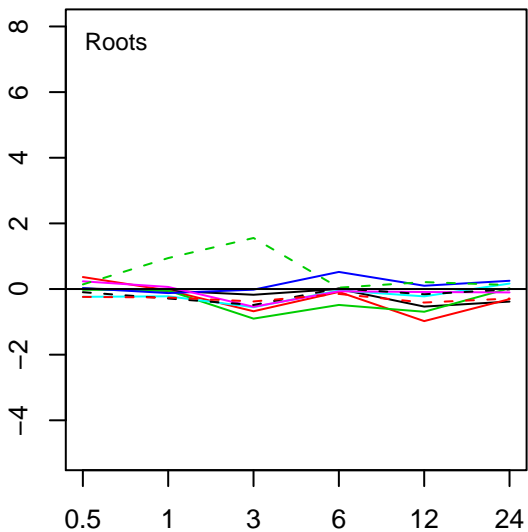
- AtHsp70-10
- cold
 - osmotic
 - salt
 - drought
 - genotoxic
 - oxidative
 - - - uv-b light
 - - - wounding
 - - - heat
 - - - pathogen



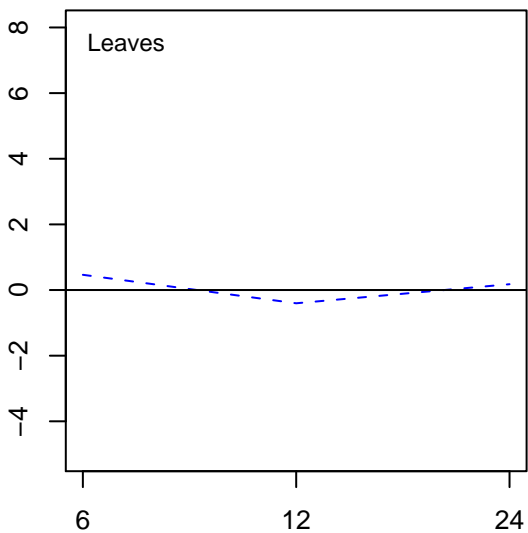
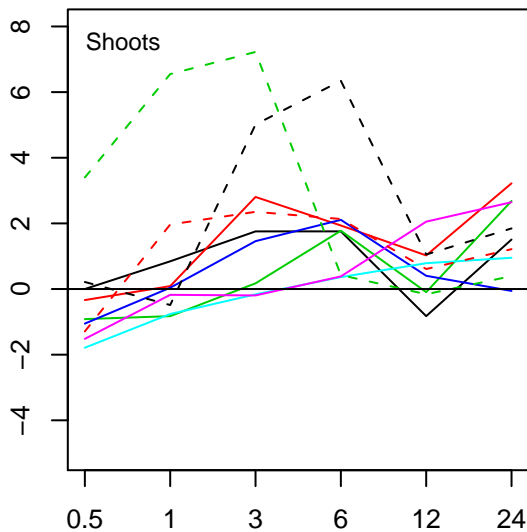
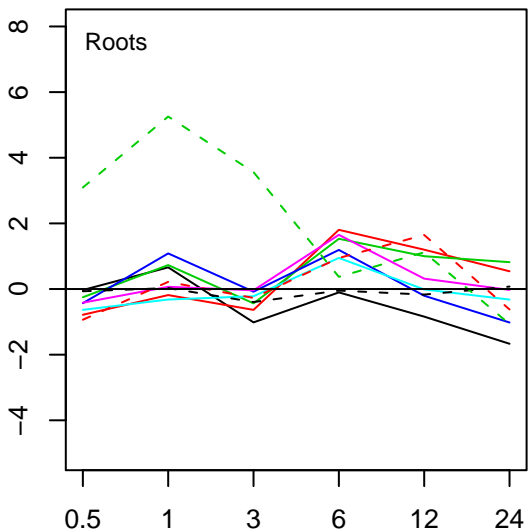
- AtHsp70-11
- cold
 - osmotic
 - salt
 - drought
 - genotoxic
 - oxidative
 - - - uv-b light
 - - - wounding
 - - - heat
 - - - pathogen



- AtHsp70-15
- cold
 - osmotic
 - salt
 - drought
 - genotoxic
 - oxidative
 - - - uv-b light
 - - - wounding
 - - - heat
 - - - pathogen

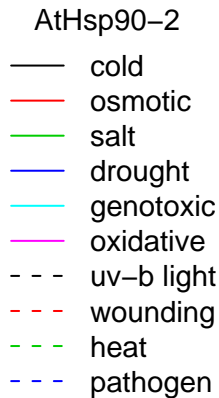
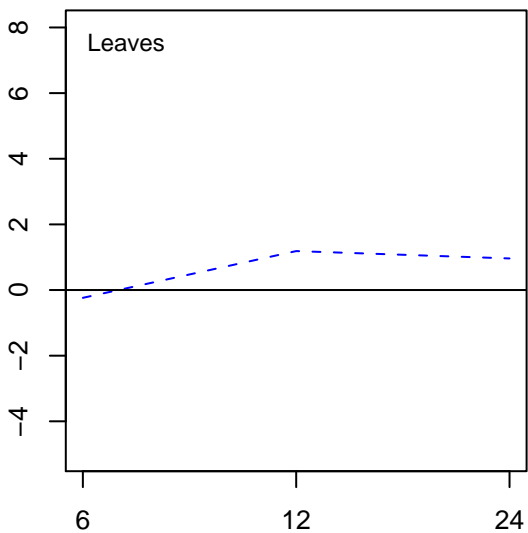
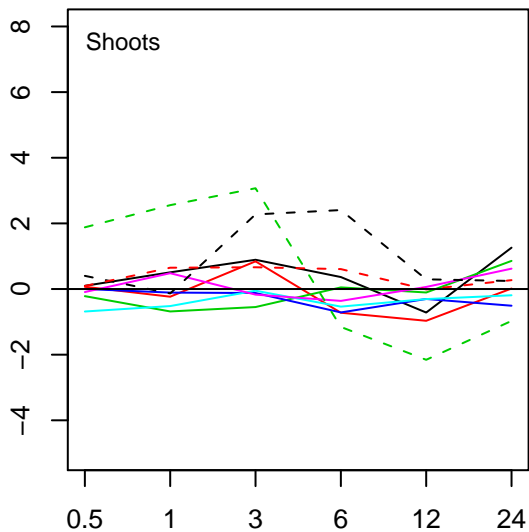
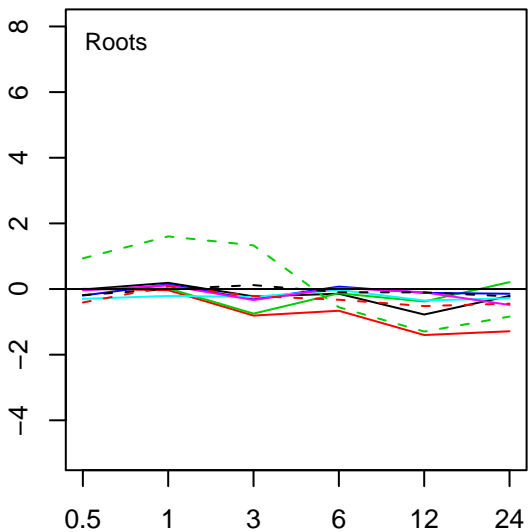


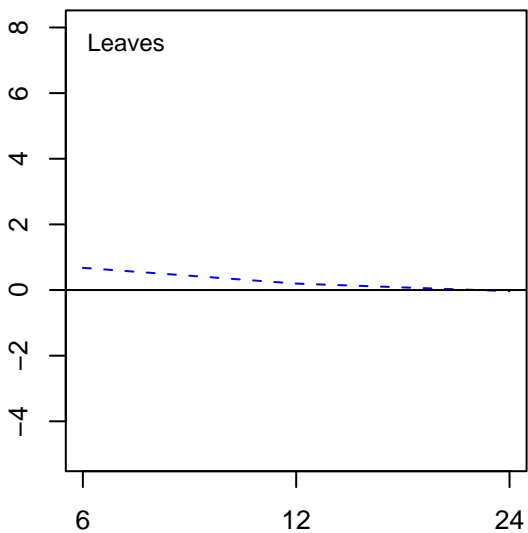
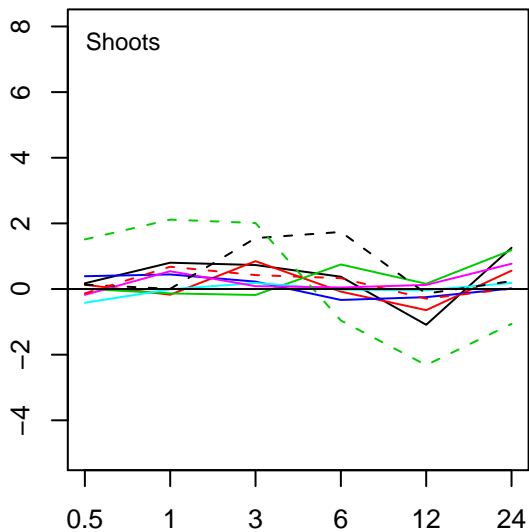
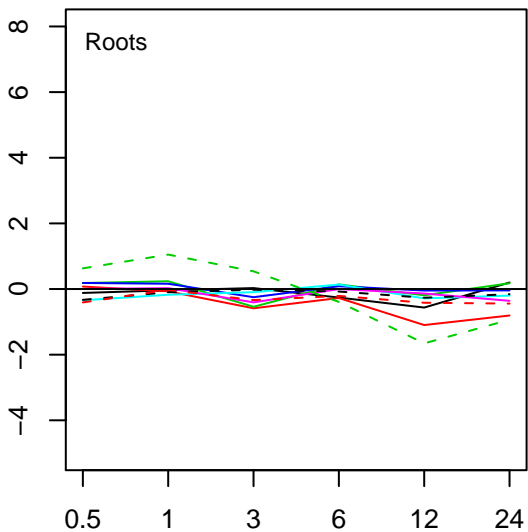
- AtHsp70-17**
- cold
 - osmotic
 - salt
 - drought
 - genotoxic
 - oxidative
 - - - uv-b light
 - - - wounding
 - - - heat
 - - - pathogen



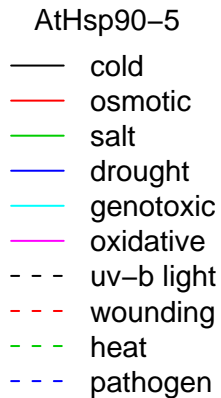
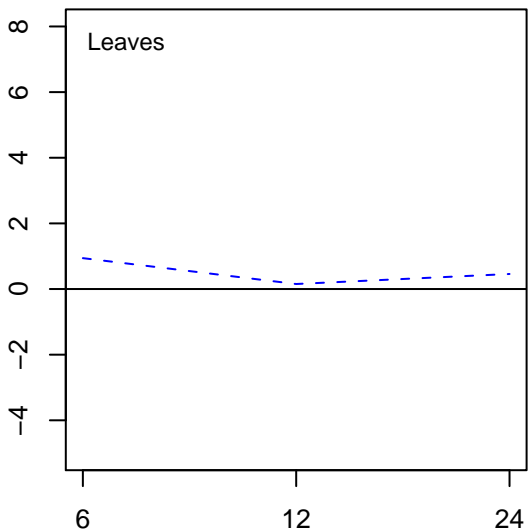
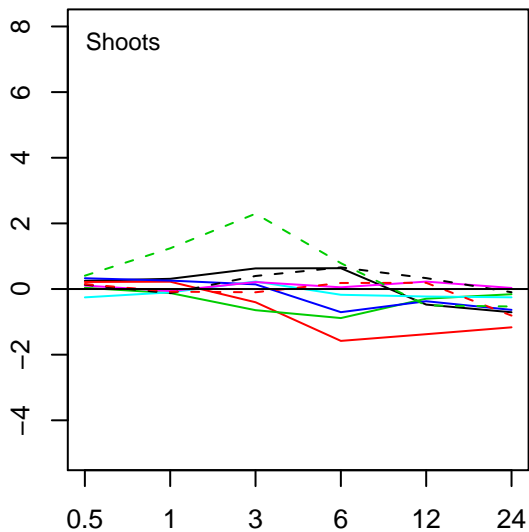
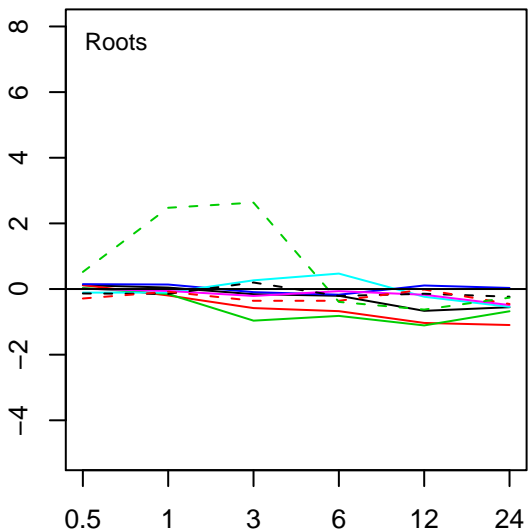
AtHsp90-1

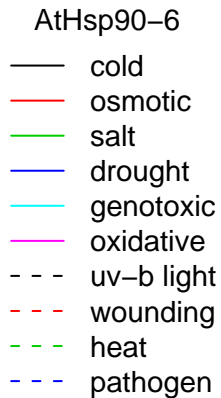
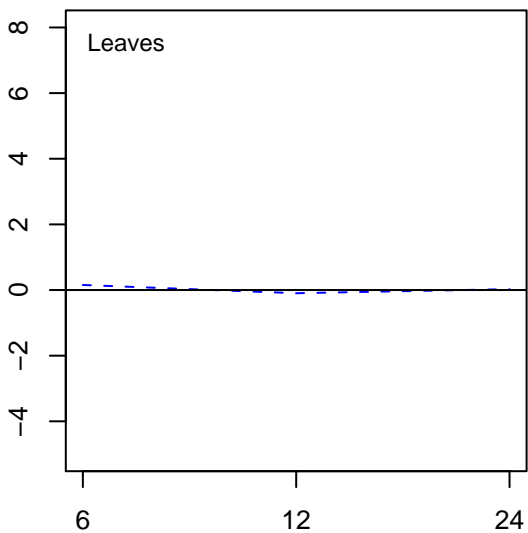
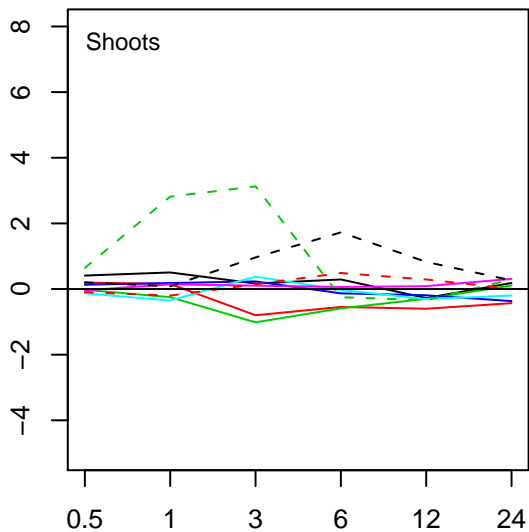
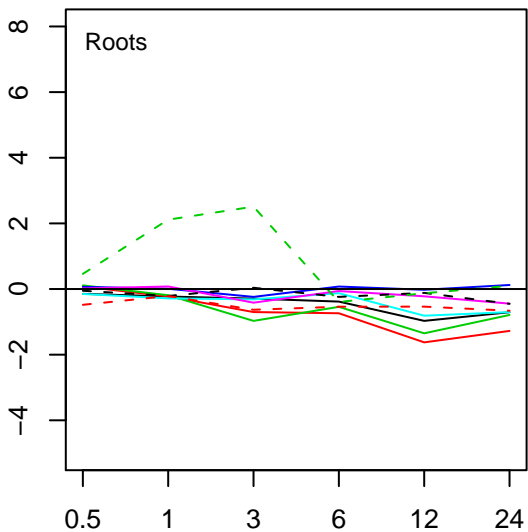
- cold
- osmotic
- salt
- drought
- genotoxic
- oxidative
- - - uv-b light
- - - wounding
- - - heat
- - - pathogen

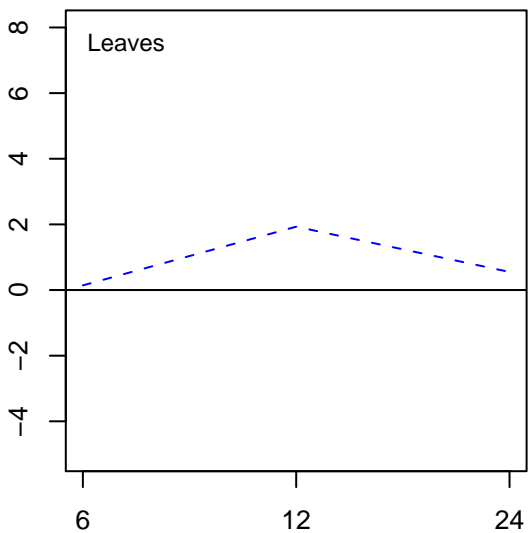
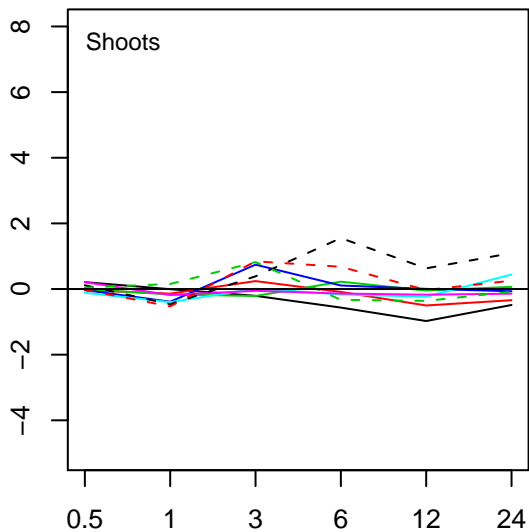
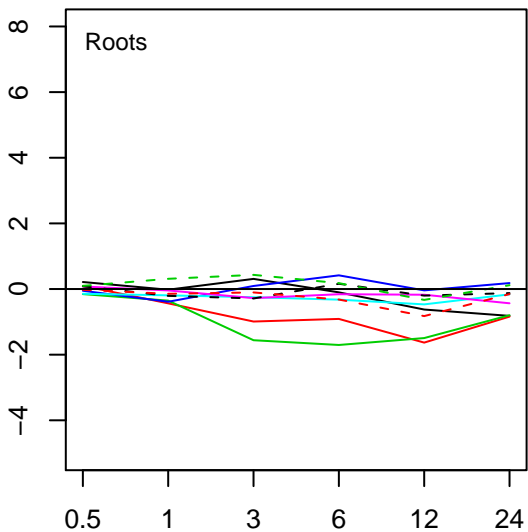




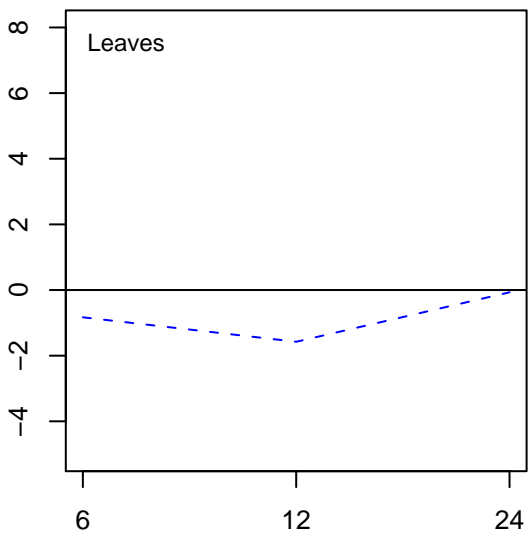
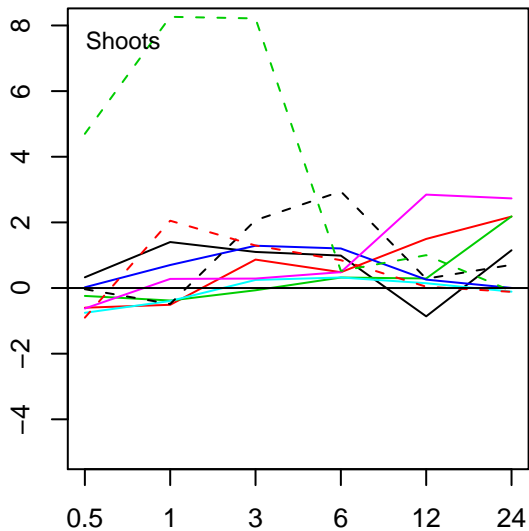
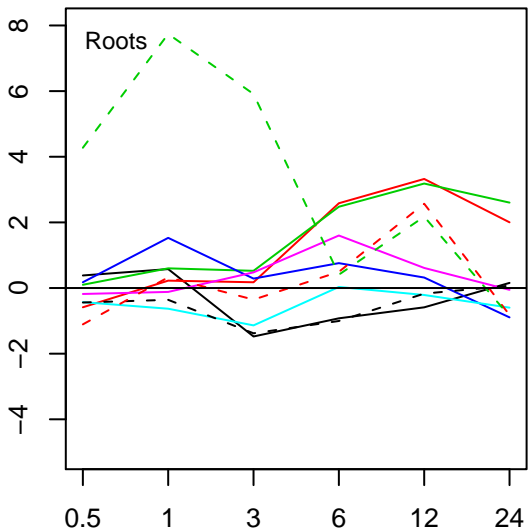
- AtHsp90-4
- cold
 - osmotic
 - salt
 - drought
 - genotoxic
 - oxidative
 - - - uv-b light
 - - - wounding
 - - - heat
 - - - pathogen



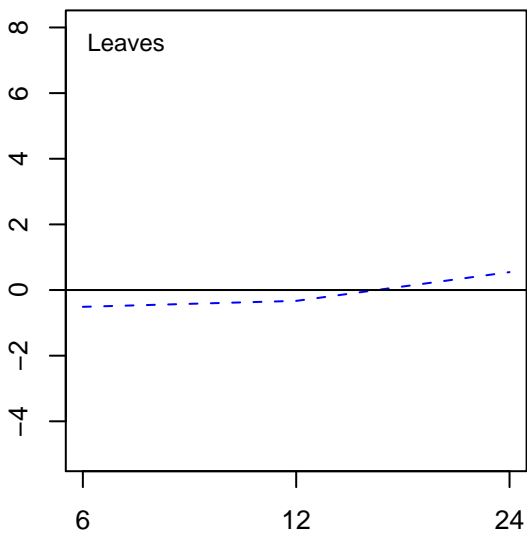
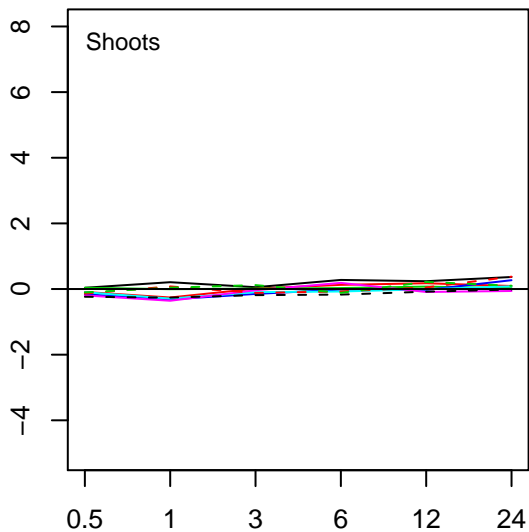
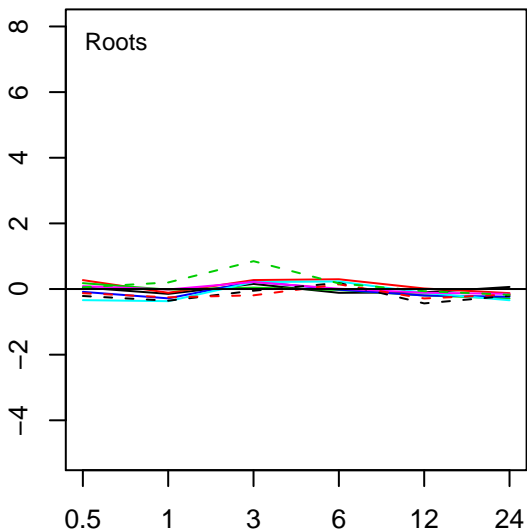




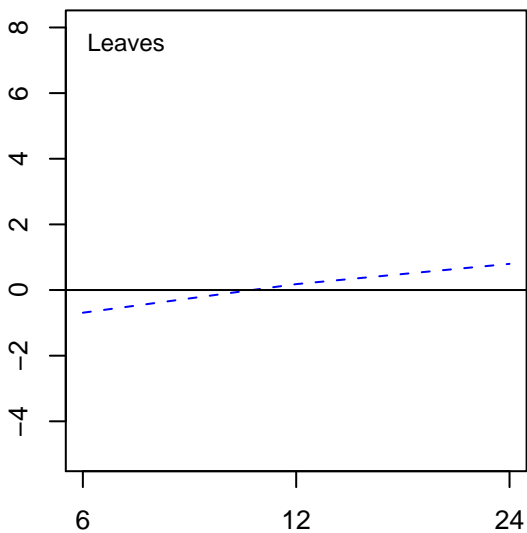
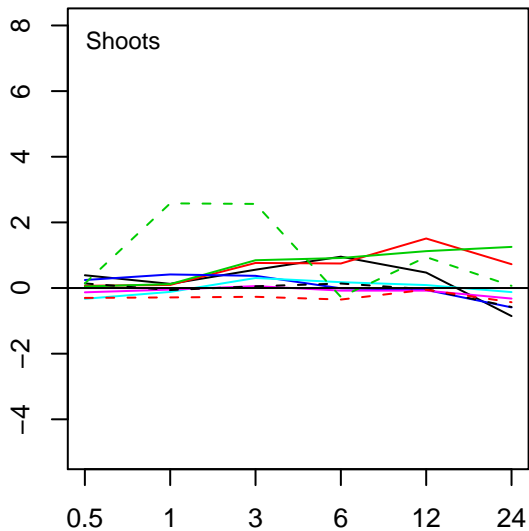
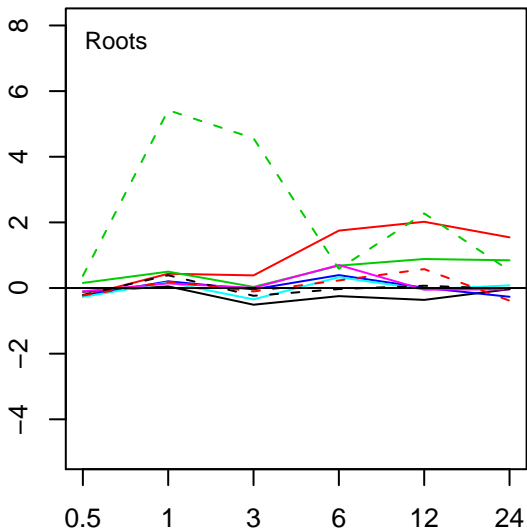
- AtHsp90-7
- cold
 - osmotic
 - salt
 - drought
 - genotoxic
 - oxidative
 - - - uv-b light
 - - - wounding
 - - - heat
 - - - pathogen



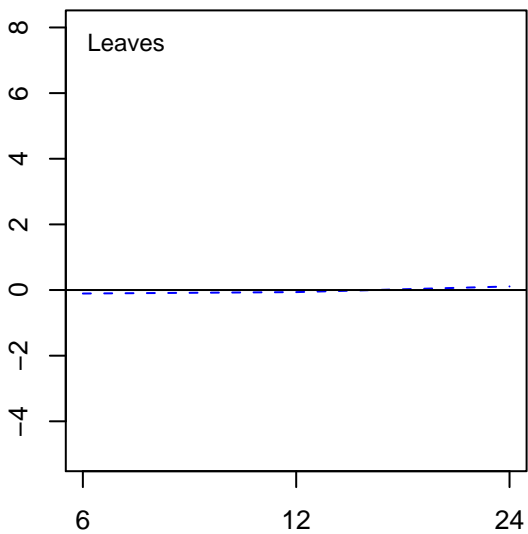
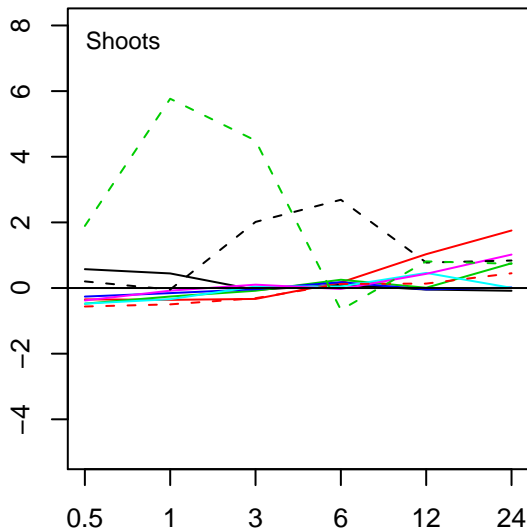
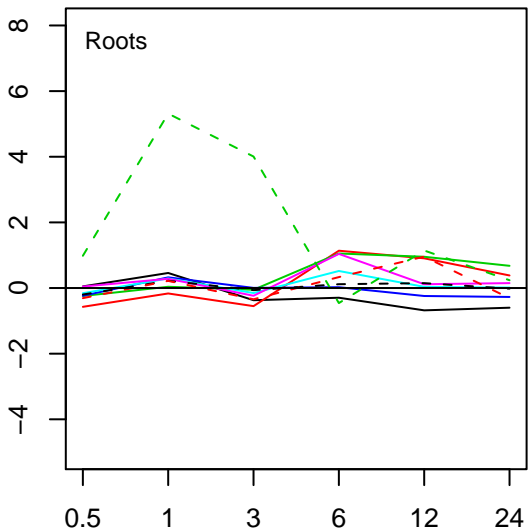
- AtHsp100-1**
- cold
 - osmotic
 - salt
 - drought
 - genotoxic
 - oxidative
 - - - uv-b light
 - - - wounding
 - - - heat
 - - - pathogen



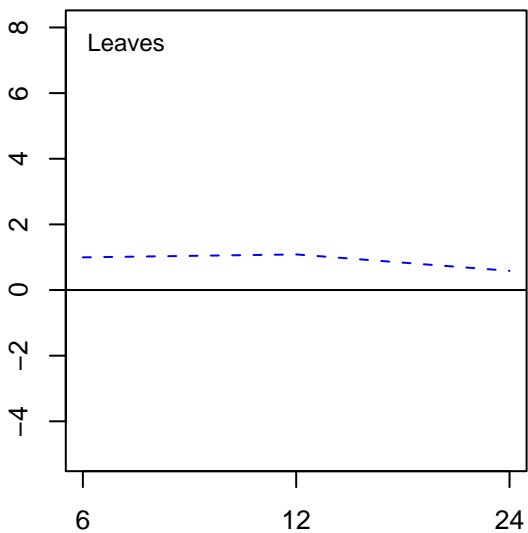
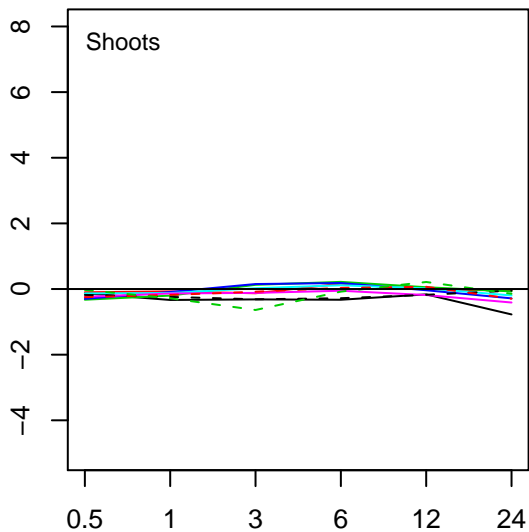
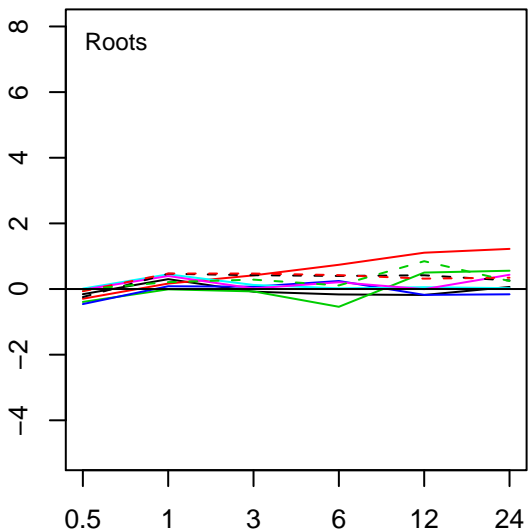
- AtHsp100-2
- cold
 - osmotic
 - salt
 - drought
 - genotoxic
 - oxidative
 - - - uv-b light
 - - - wounding
 - - - heat
 - - - pathogen



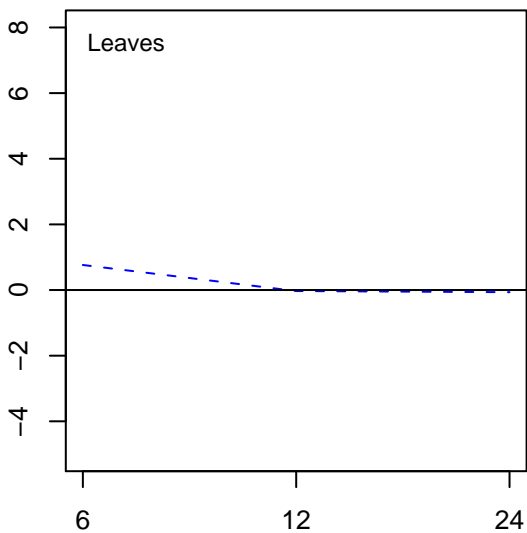
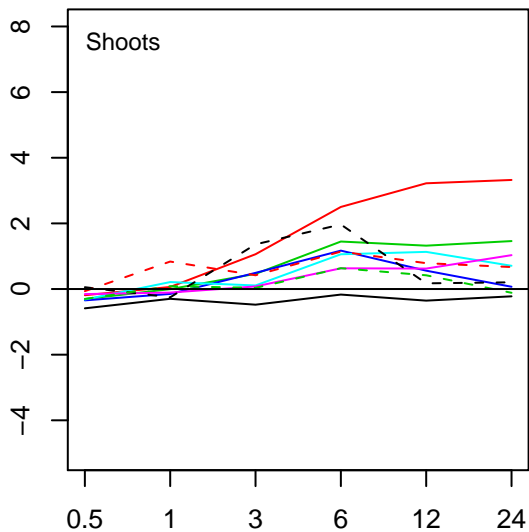
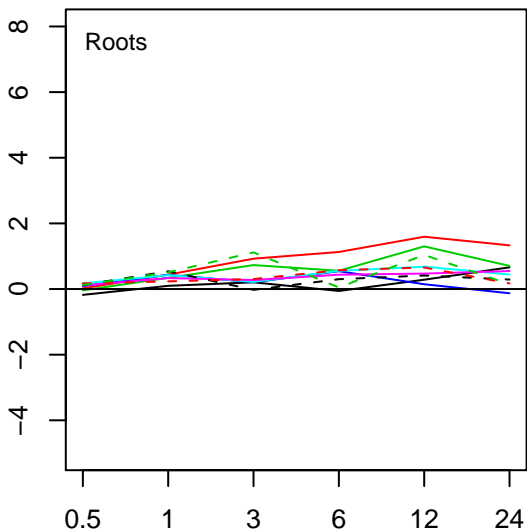
- AtHsp100-3
- cold
 - osmotic
 - salt
 - drought
 - genotoxic
 - oxidative
 - - - uv-b light
 - - - wounding
 - - - heat
 - - - pathogen



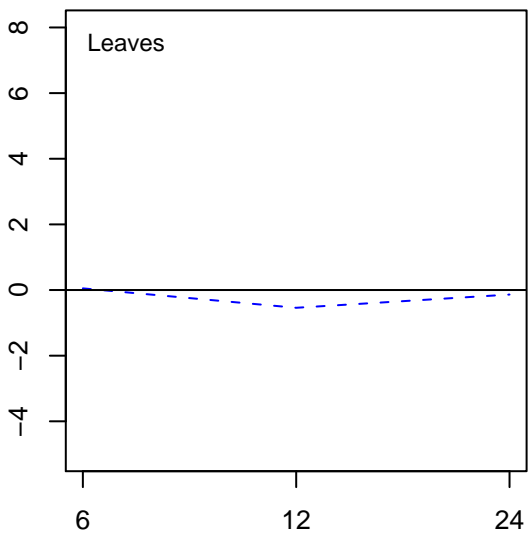
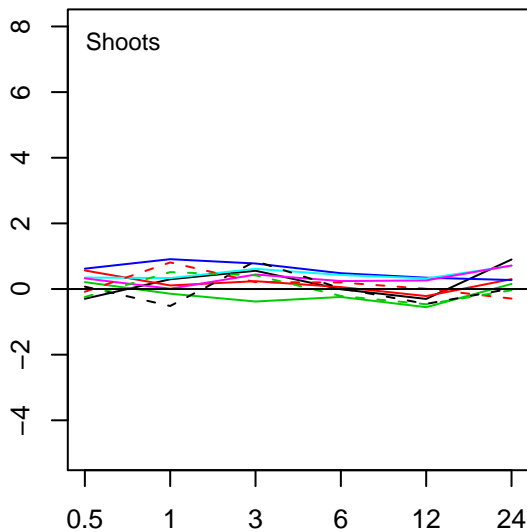
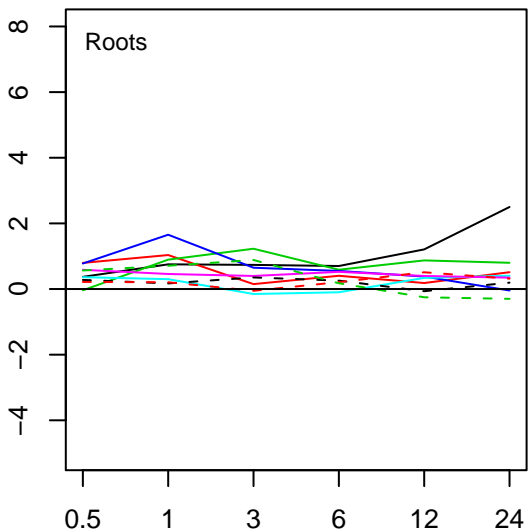
- AtHsp100-4
- cold
 - osmotic
 - salt
 - drought
 - genotoxic
 - oxidative
 - - - uv-b light
 - - - wounding
 - - - heat
 - - - pathogen



- AtHsp100-5
- cold
 - osmotic
 - salt
 - drought
 - genotoxic
 - oxidative
 - - - uv-b light
 - - - wounding
 - - - heat
 - - - pathogen



- AtHsp100-7
- cold
 - osmotic
 - salt
 - drought
 - genotoxic
 - oxidative
 - - - uv-b light
 - - - wounding
 - - - heat
 - - - pathogen



- AtHsp100-8
- cold
 - osmotic
 - salt
 - drought
 - genotoxic
 - oxidative
 - - - uv-b light
 - - - wounding
 - - - heat
 - - - pathogen