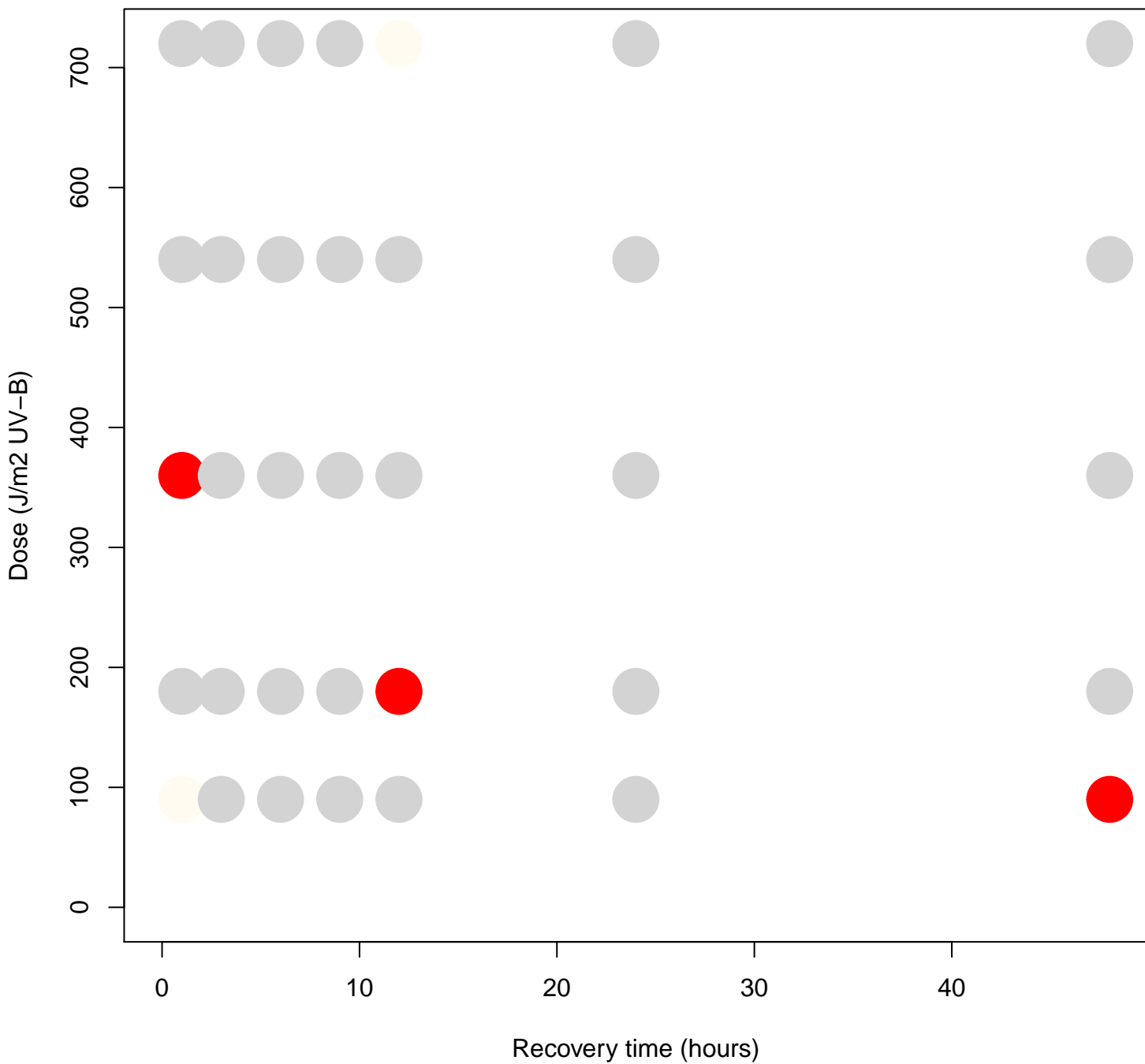


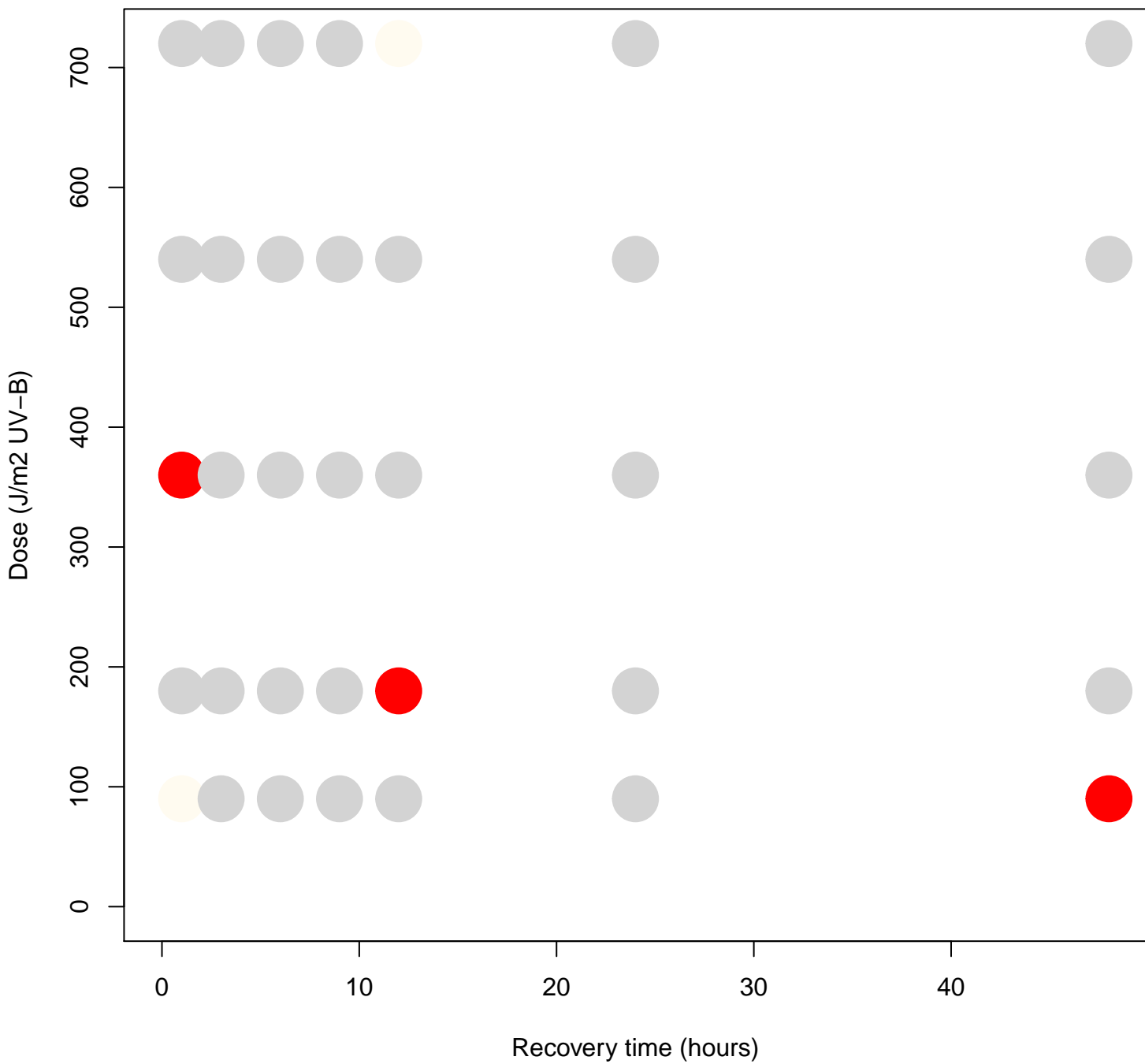
Figure S4. Cellular process specific responses in the *in-vivo* experiment design space

The potential sweet spots in the *in-vivo* range-finding experiment diagrams for all 64 tested gene sets (same set up as Figure 4A).

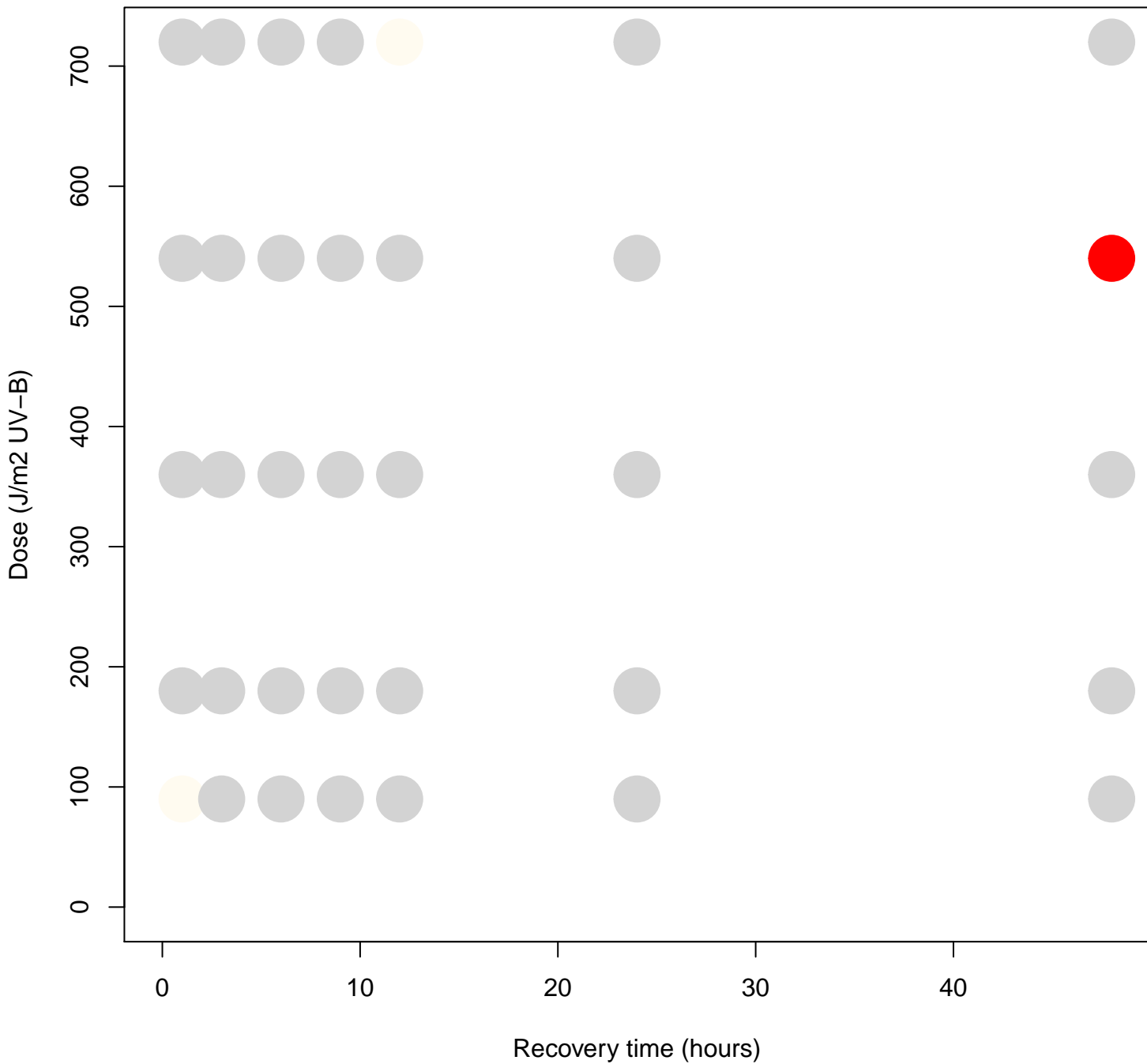
# BC\_apoptosis\_caspase\_induced\_GST\_no\_growth\_FDR



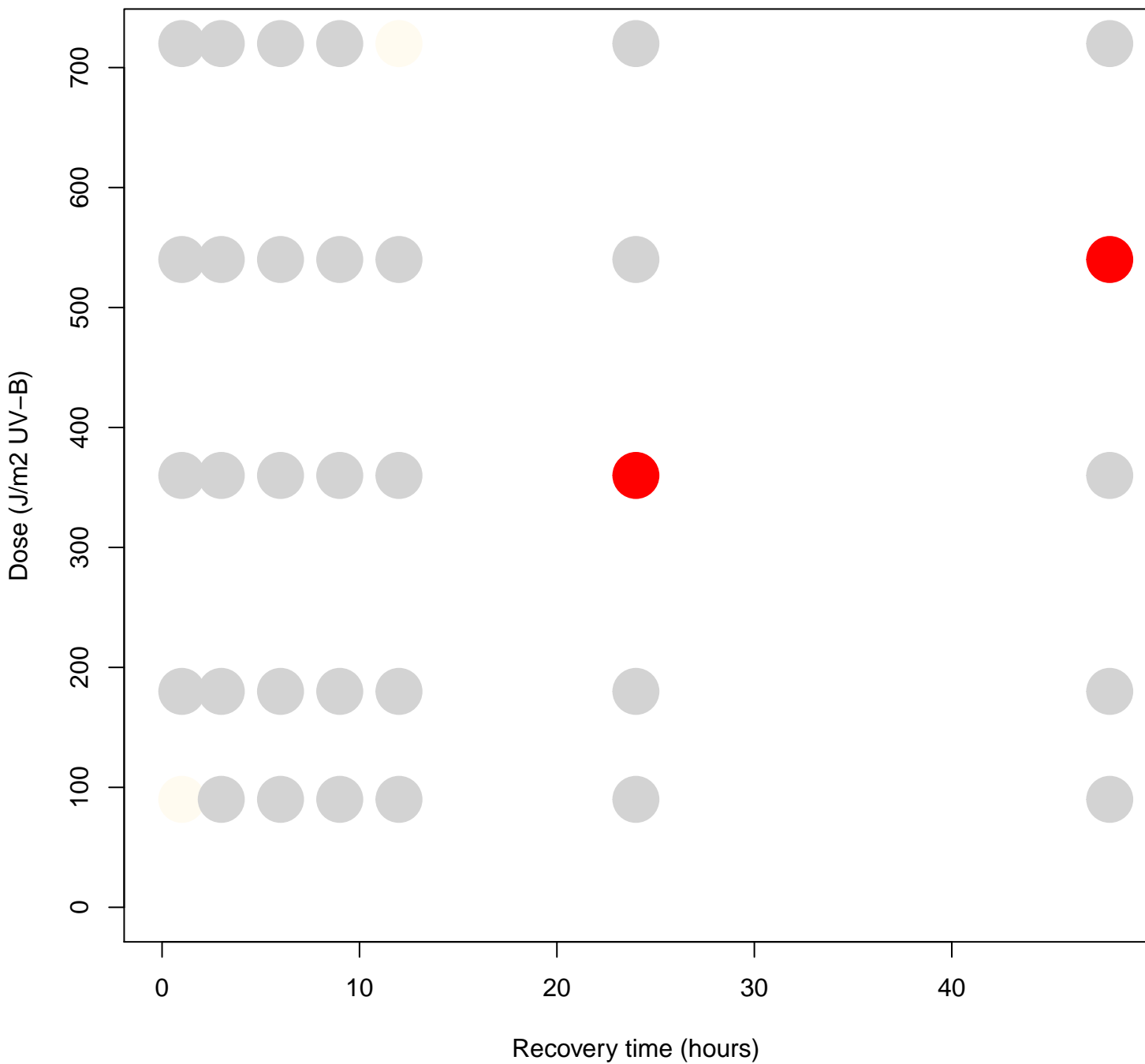
# BC\_apoptosis\_caspase\_induced.1\_GST\_no\_growth\_FDR



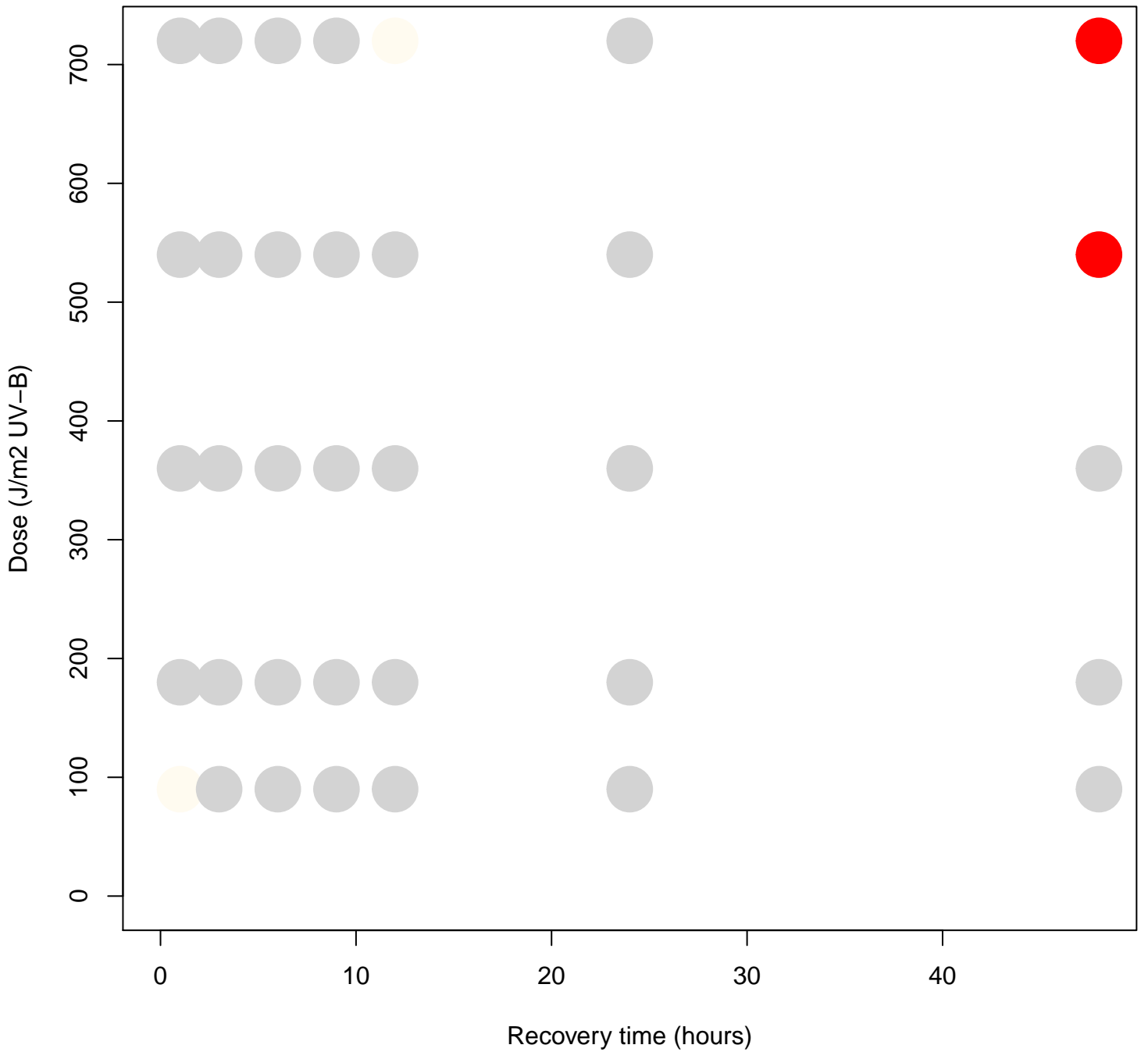
# BC\_ATM\_signalling\_pathway\_GST\_no\_growth\_FDR



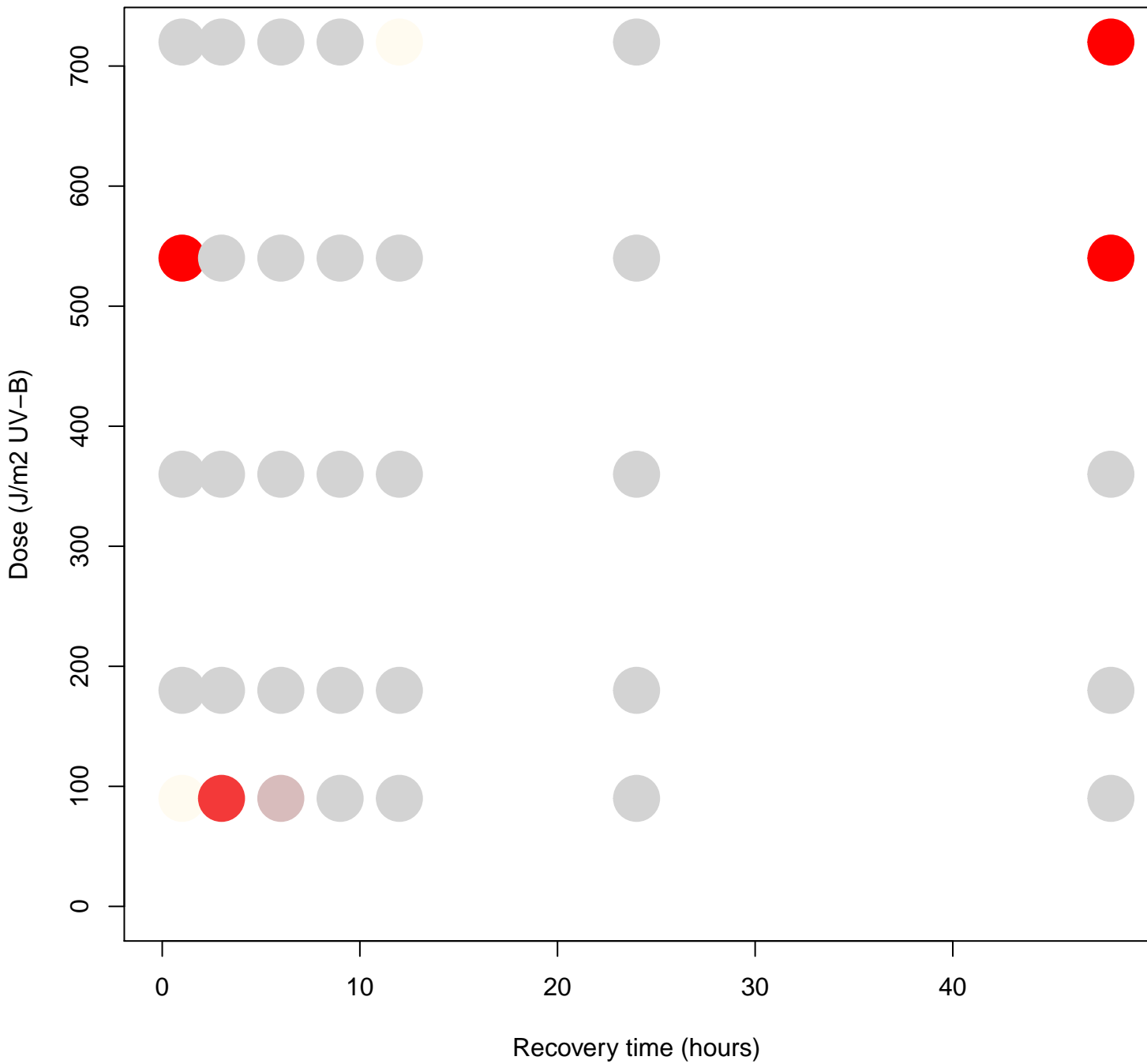
BC\_Cell\_cycle\_checkpoint\_GST\_no\_growth\_FDR



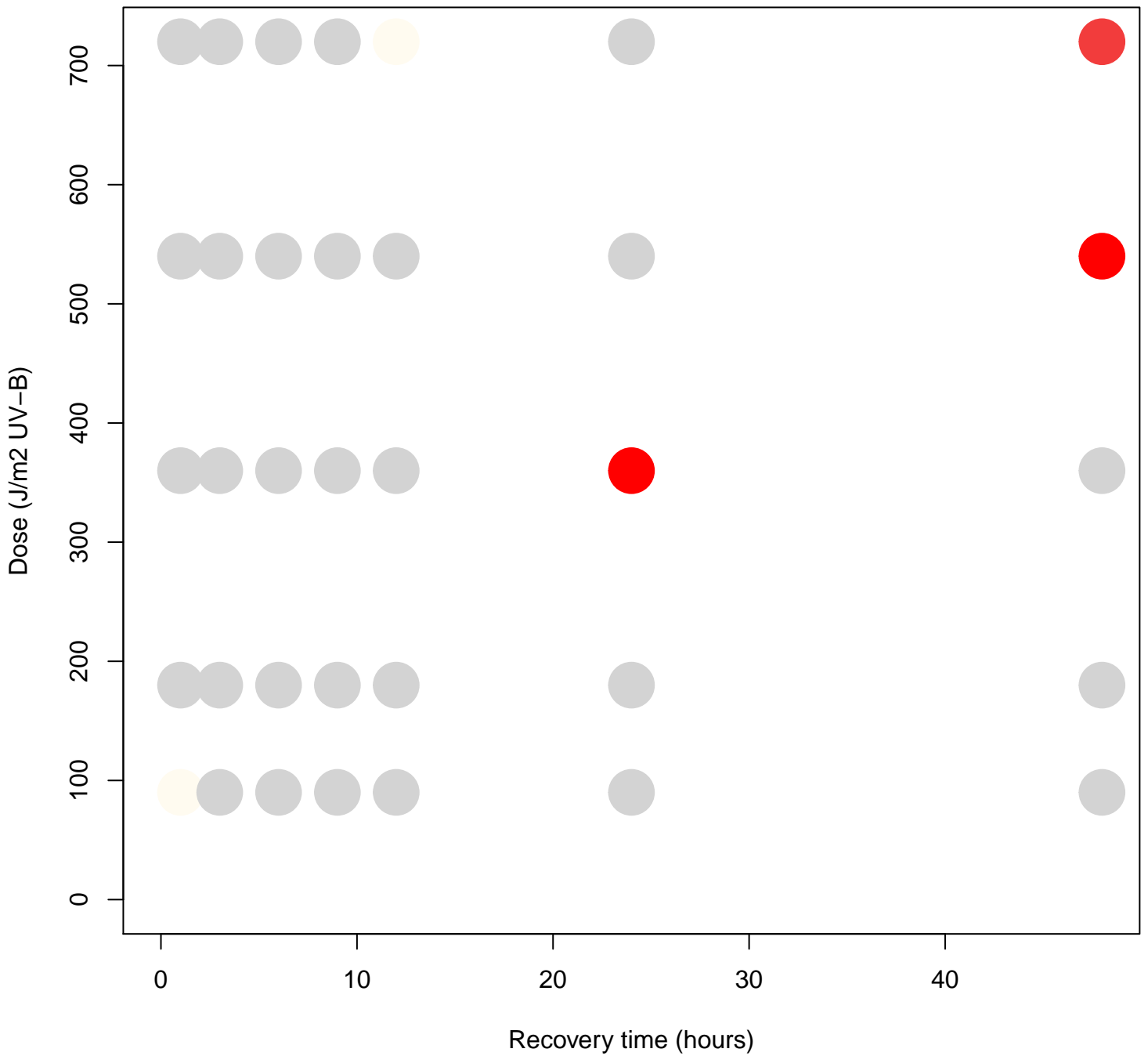
# BC\_Cyclins\_and\_Cell\_Cycle\_Regulation\_pathway\_GST\_no\_growth\_FDR



# BC\_G1.S\_check\_point\_GST\_no\_growth\_FDR

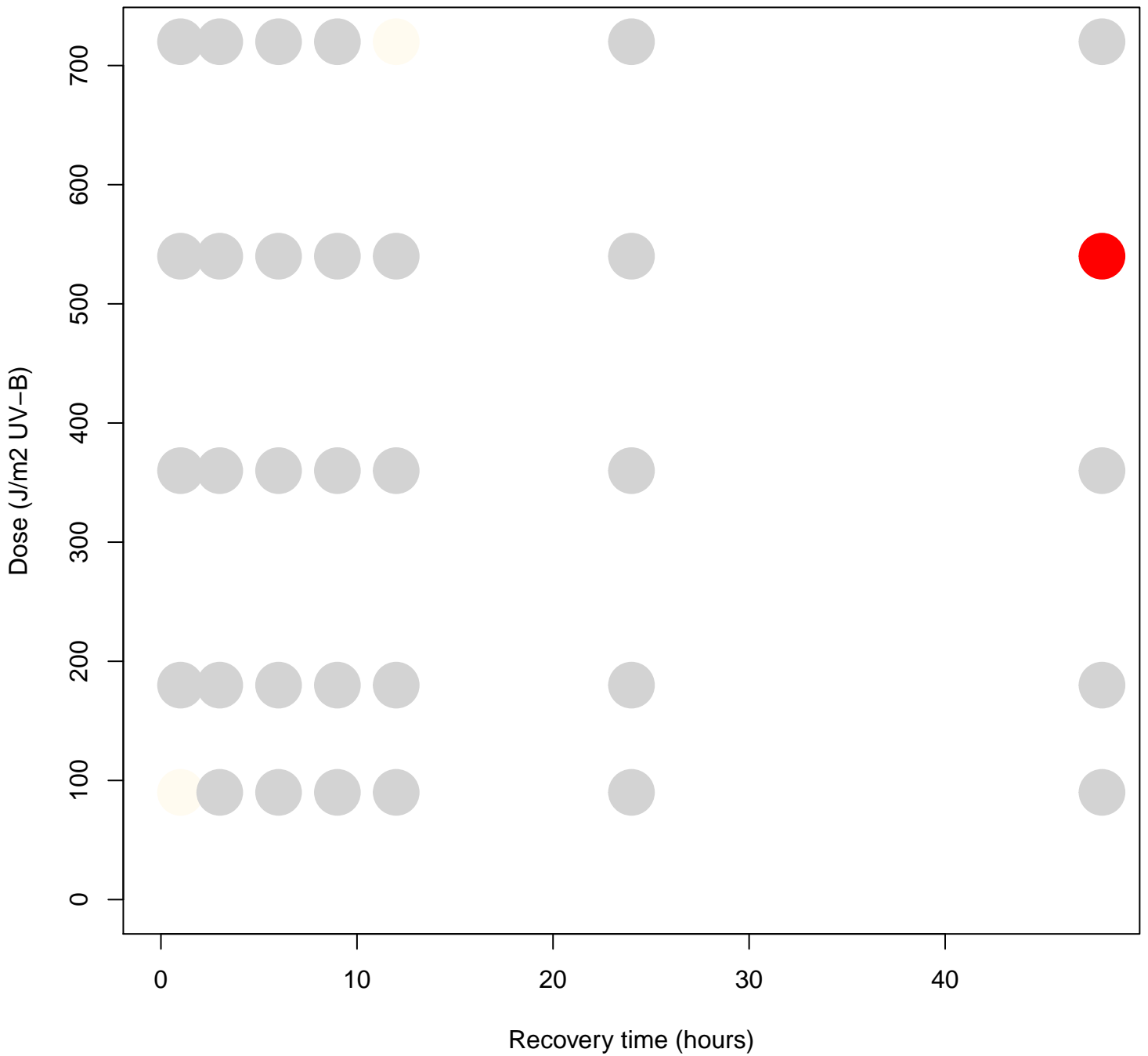


# BC\_G2.M\_checkpoint\_GST\_no\_growth\_FDR

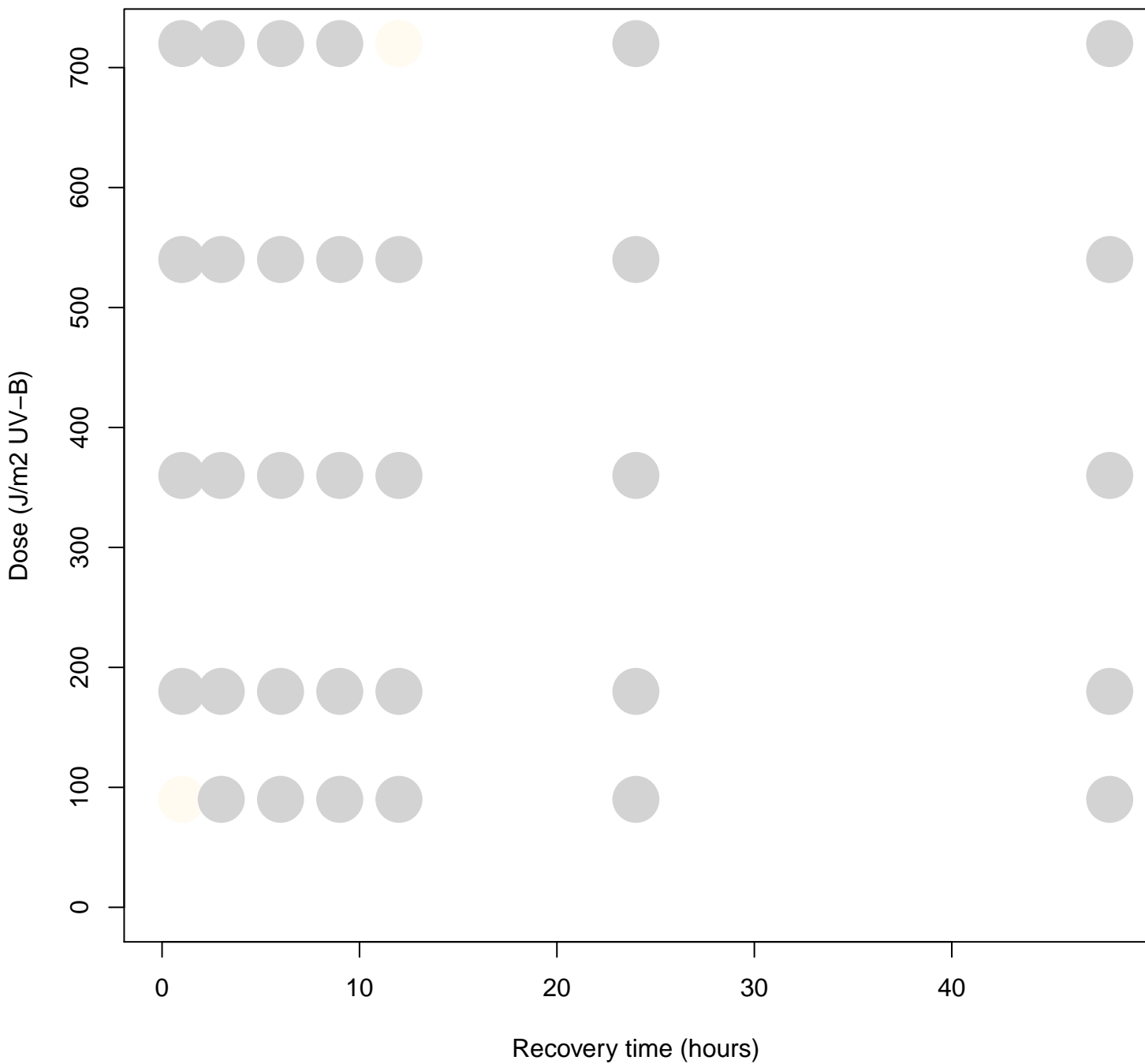




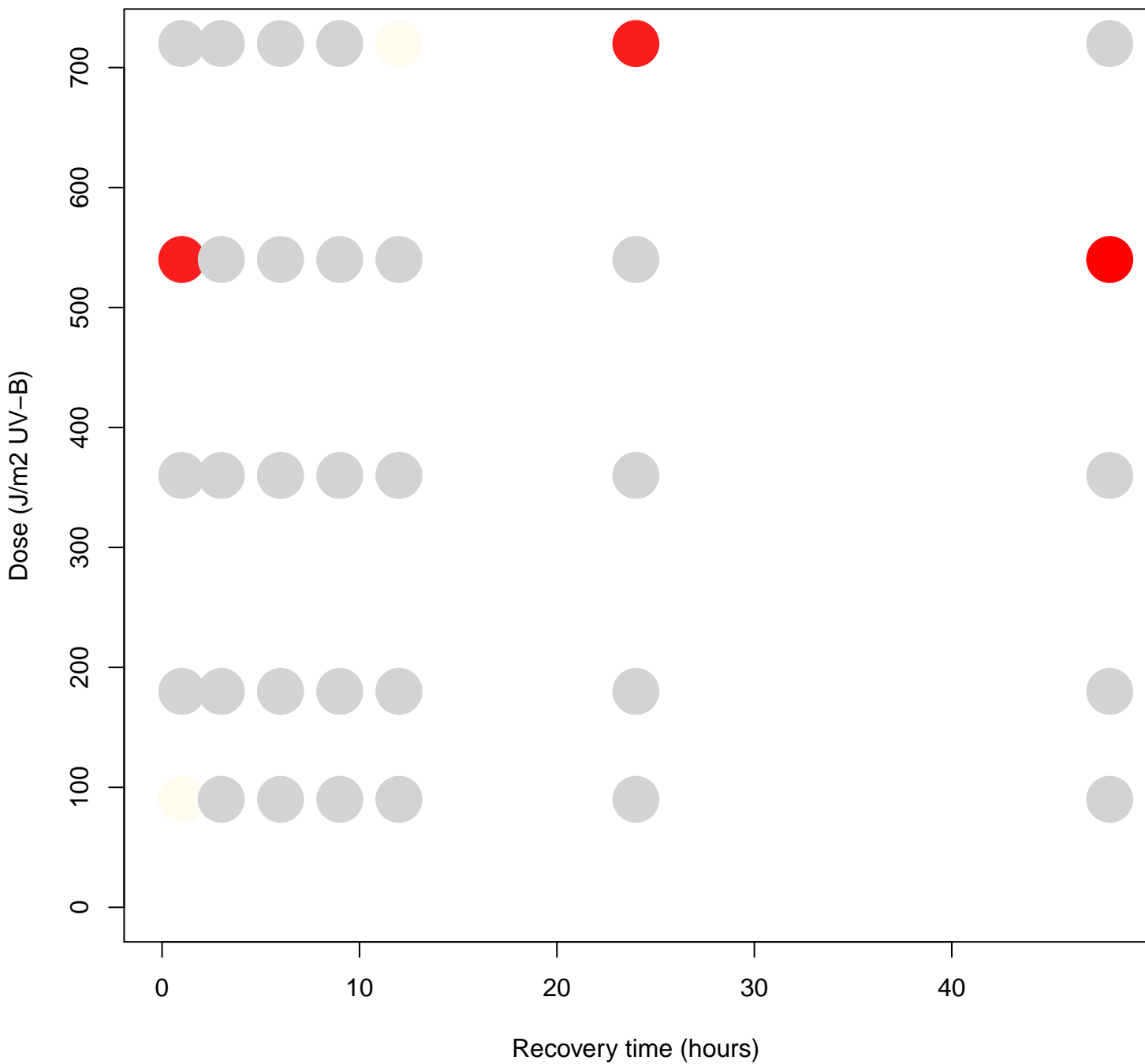
# BC\_M\_arrest\_GST\_no\_growth\_FDR



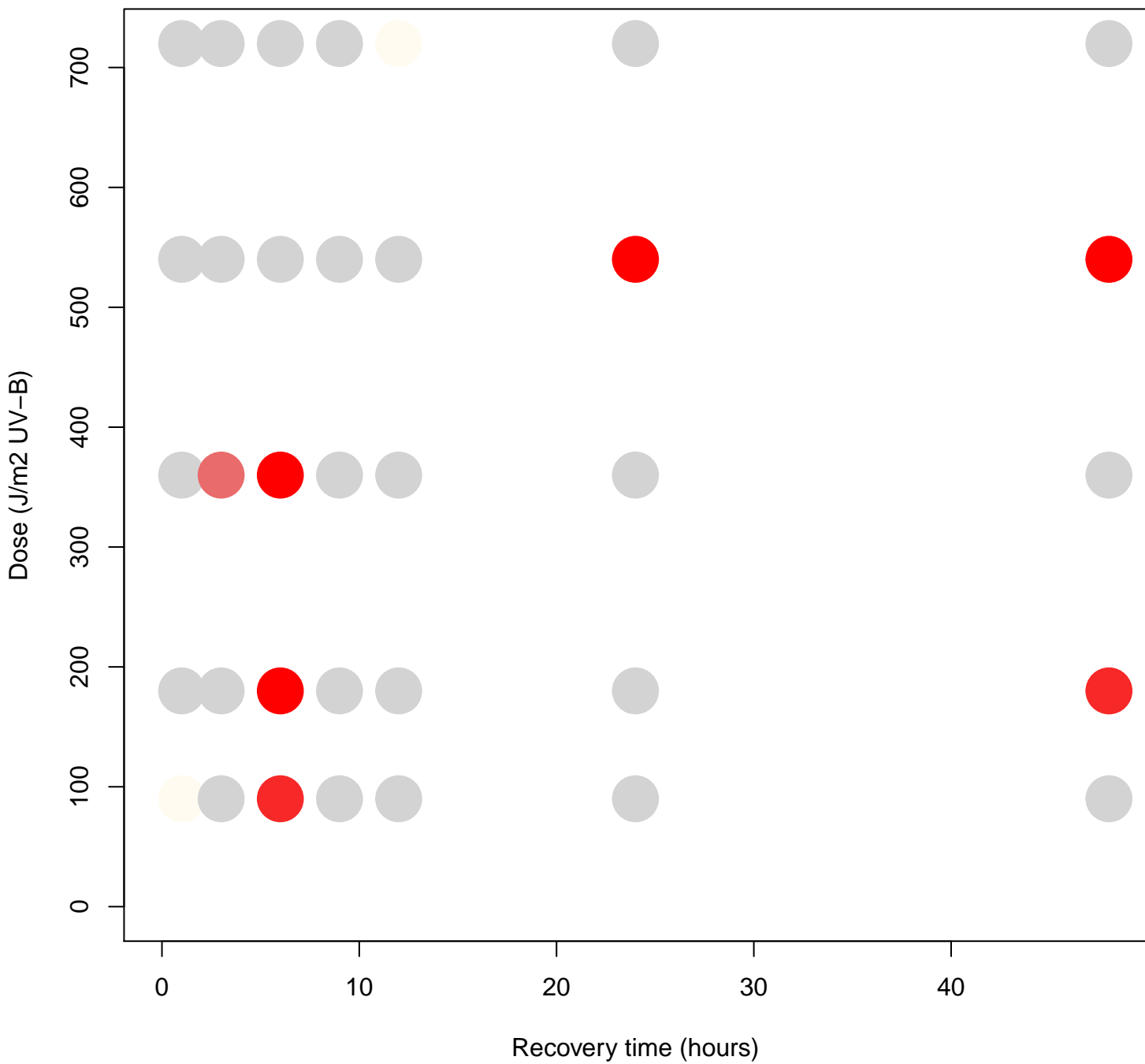
# BC\_mitochondria\_apoptosis\_GST\_no\_growth\_FDR



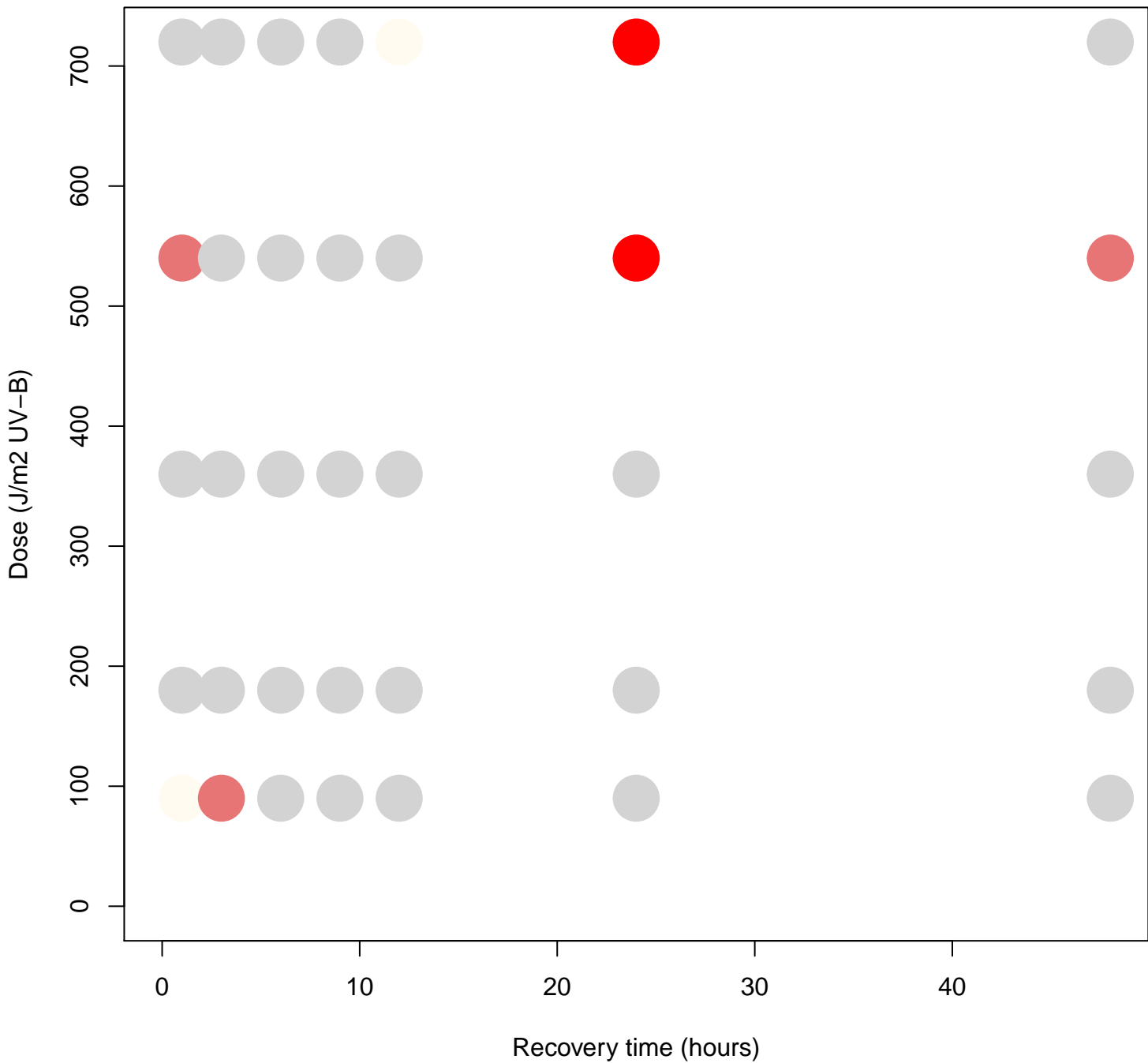
# BC\_p53\_signalling\_pathways\_GST\_no\_growth\_FDR



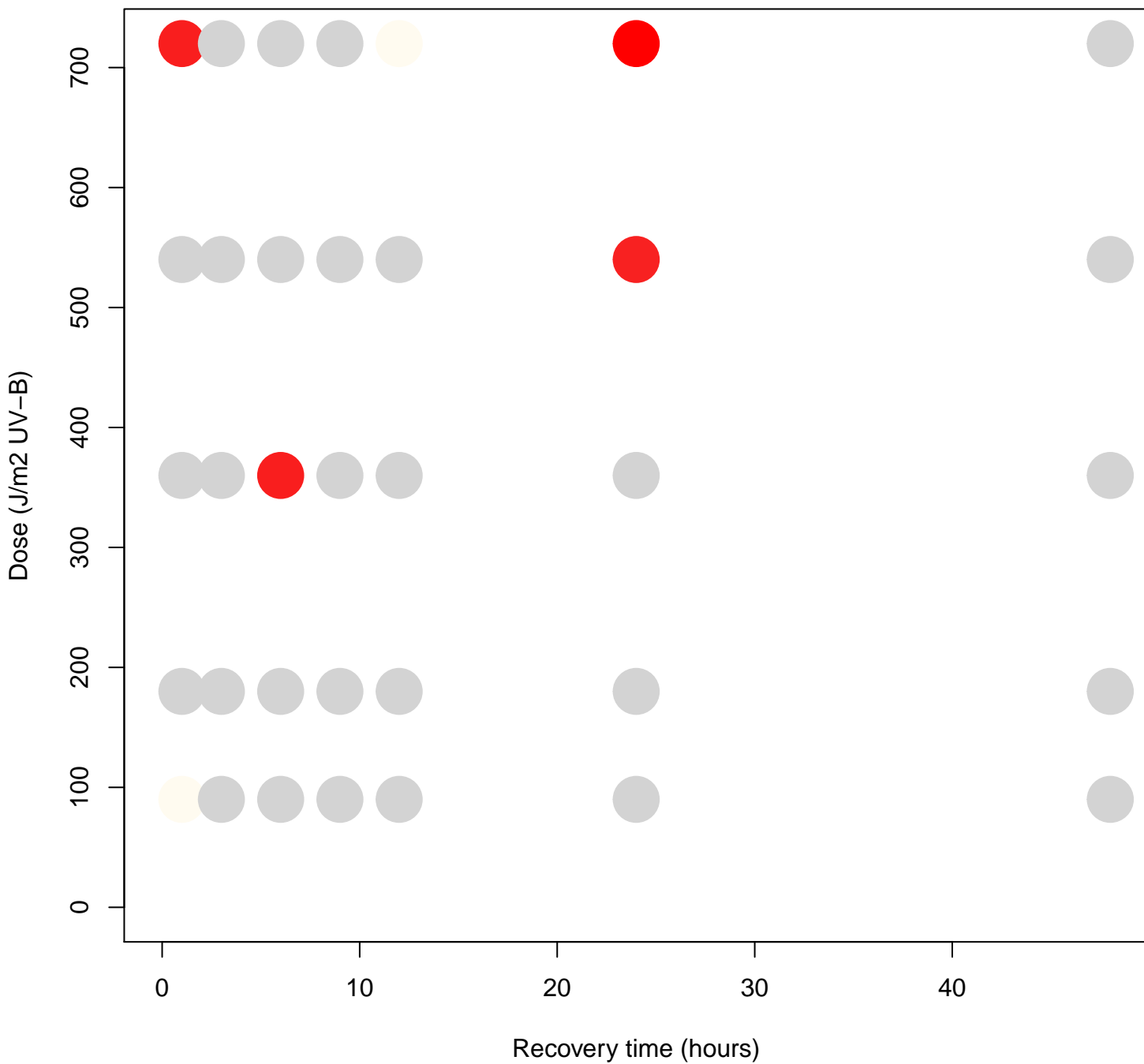
# IARC\_P53\_core\_regulatory\_network\_GST\_no\_growth\_FDR



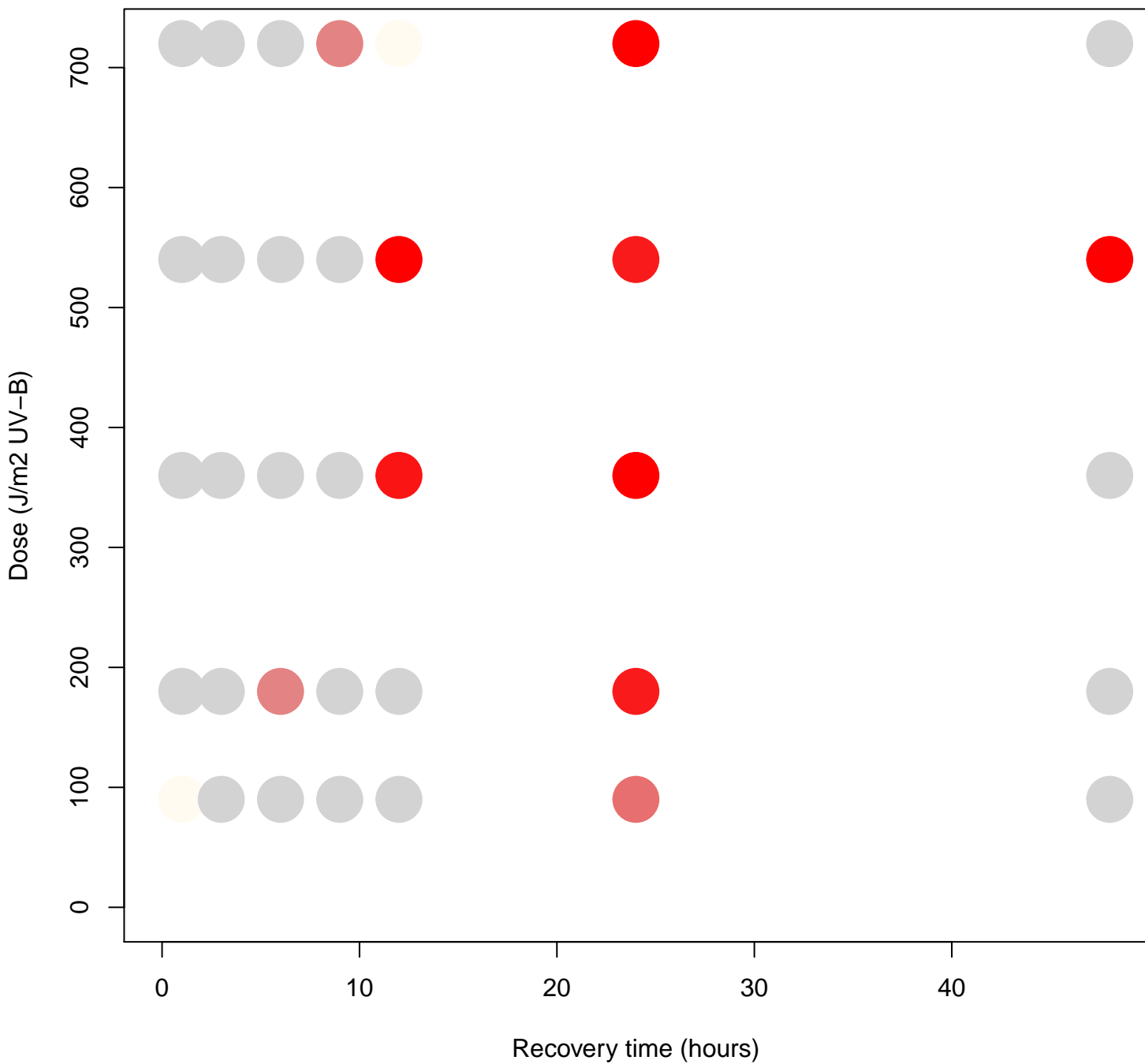
# IARC\_p53\_Downstream\_target\_genes\_GST\_no\_growth\_FDR

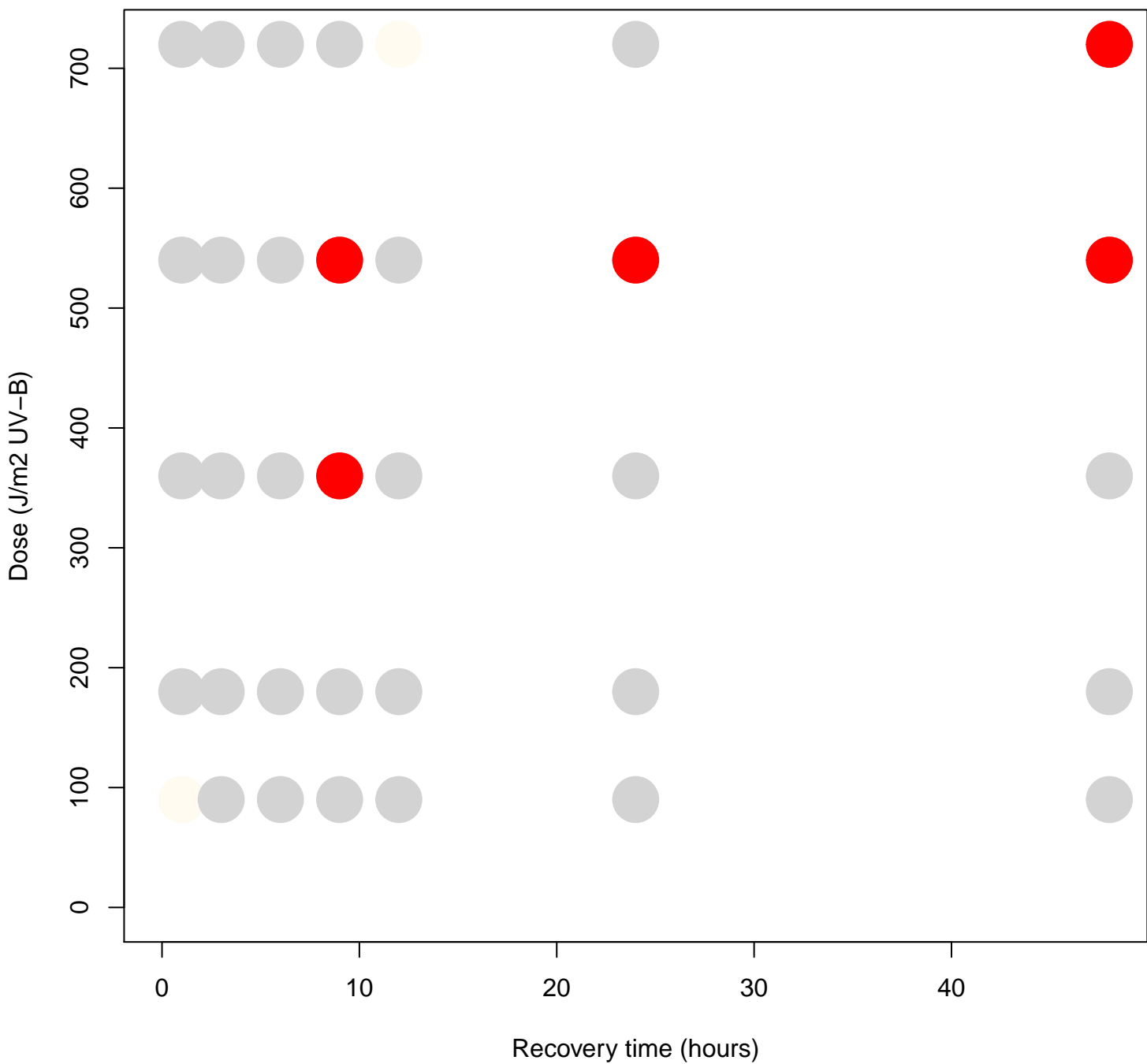


# IARC\_p53.RE\_name\_GST\_no\_growth\_FDR



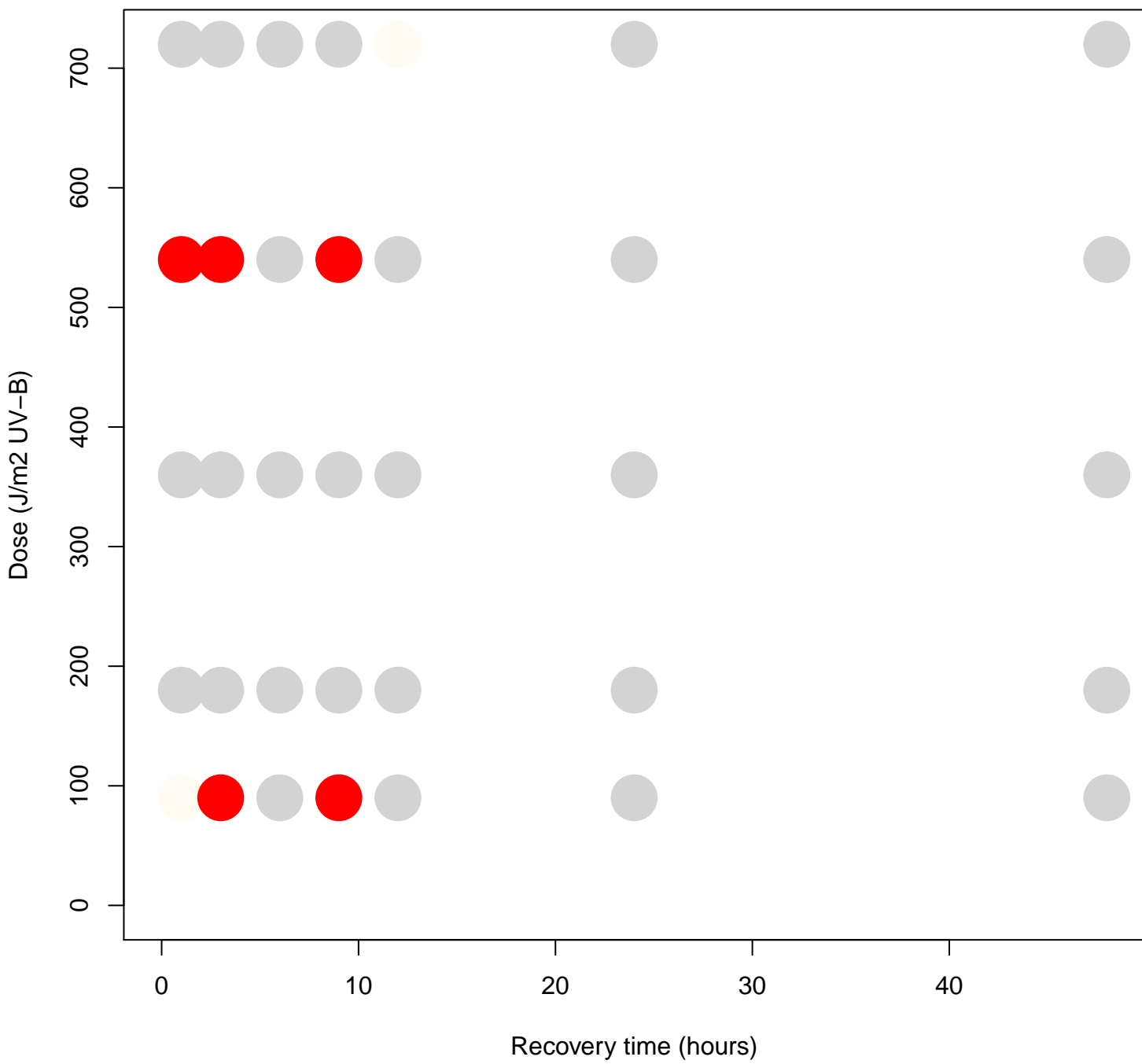
# KEGG\_3420\_Nucleotide\_excision\_repair\_GST\_no\_growth\_FDR



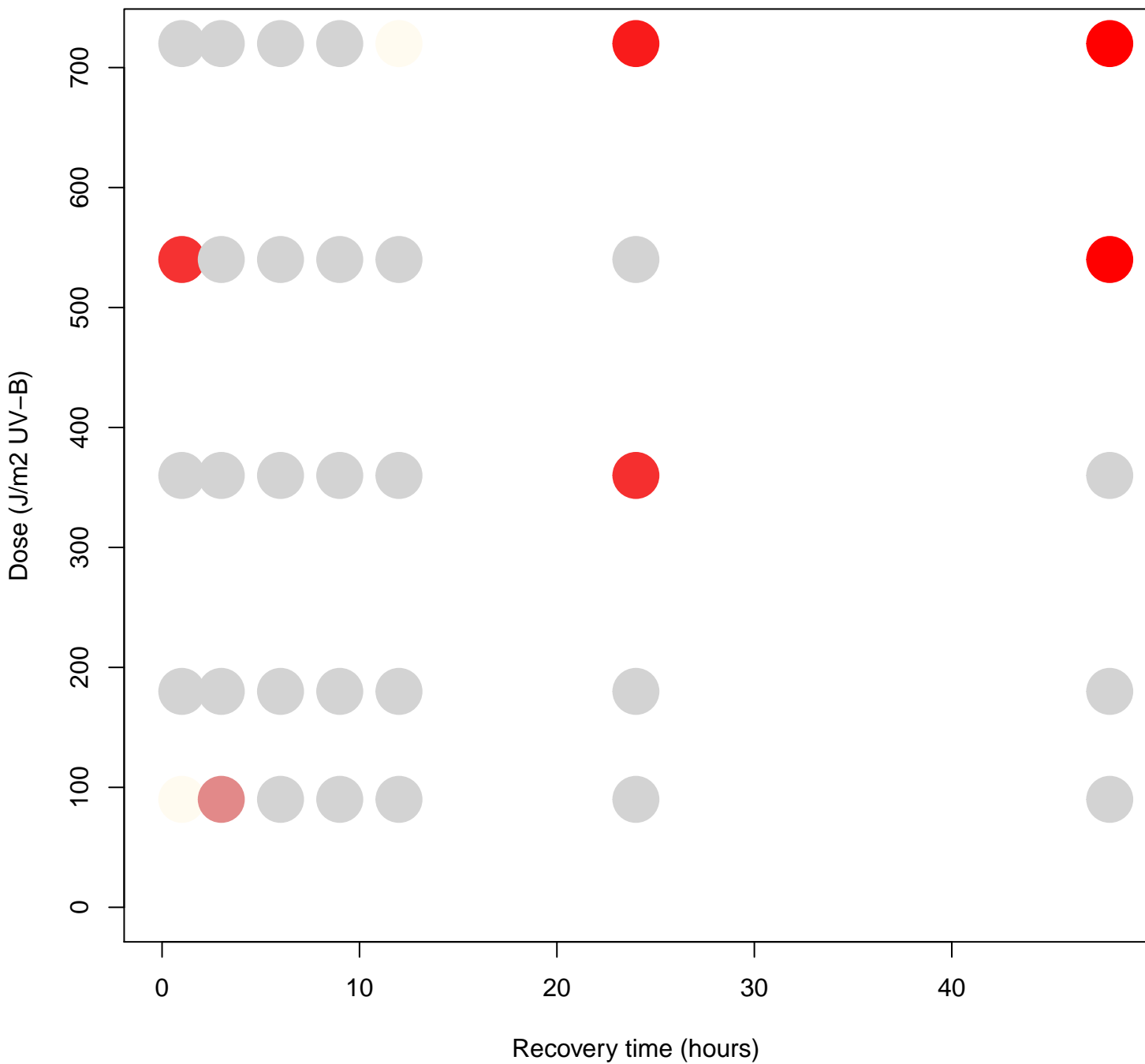




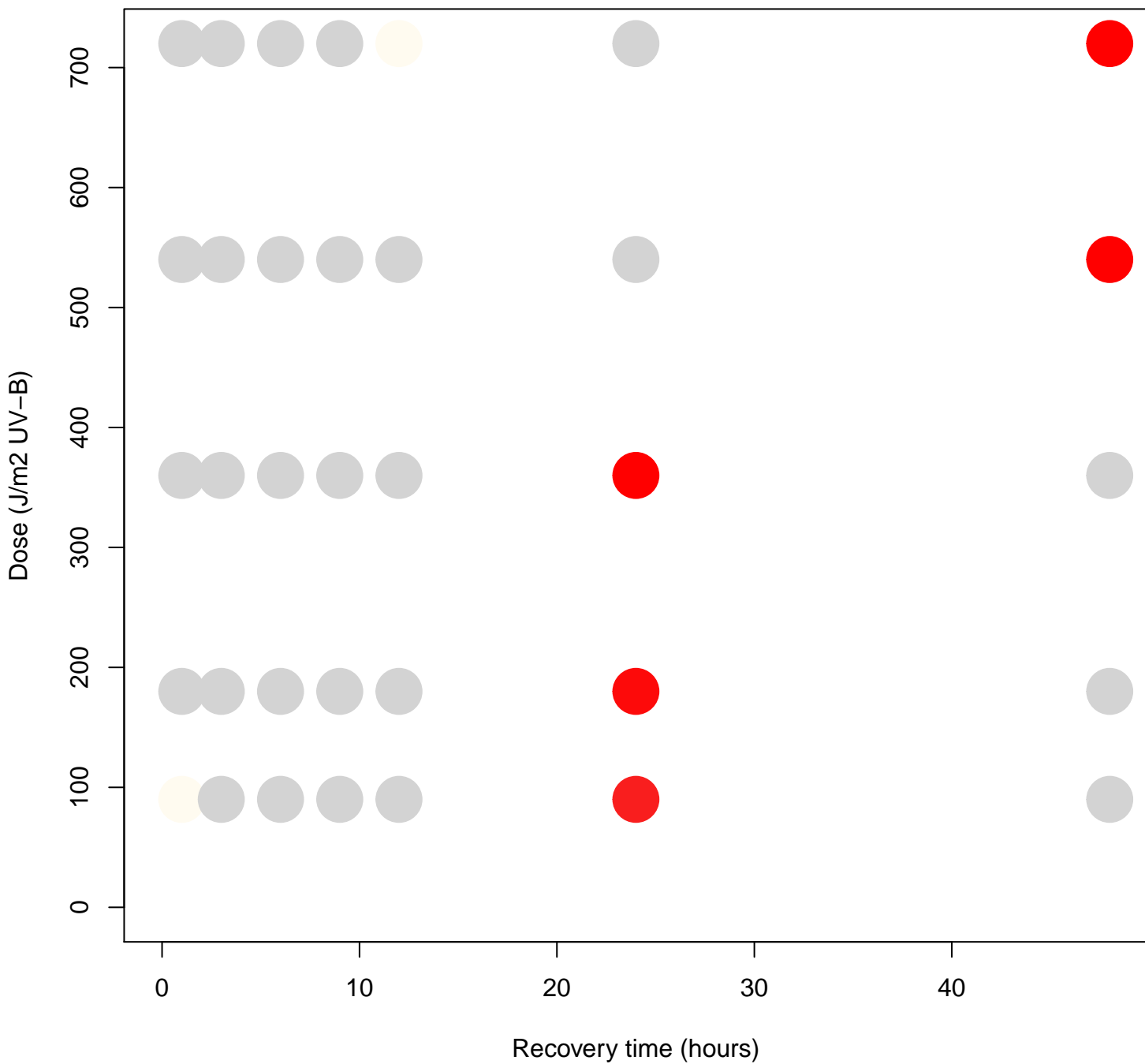
MC\_maps\_apoptosis\_and\_survival\_p53\_dependent\_apoptosis\_GST\_no\_growth\_FD



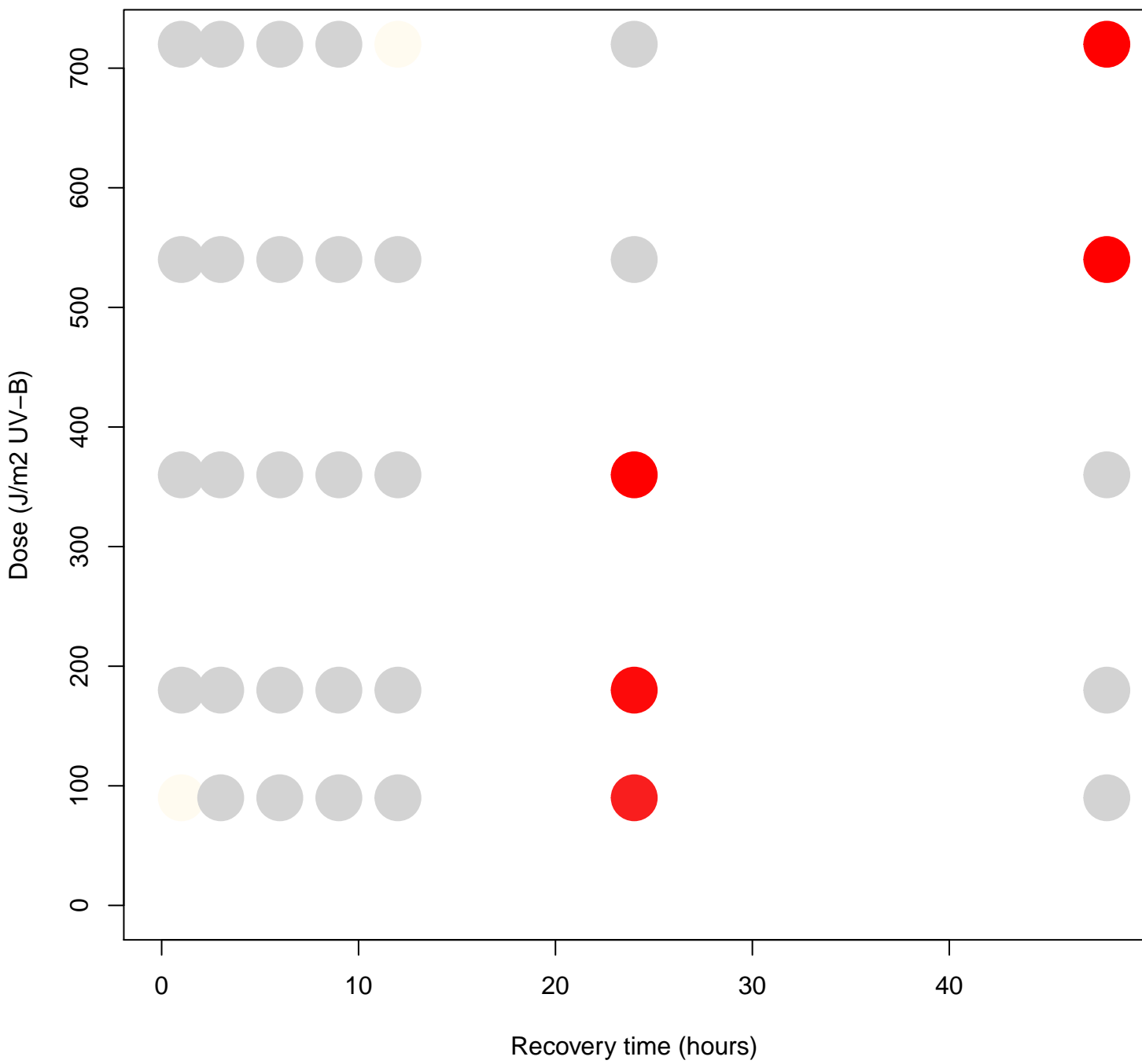
# MC\_maps\_ATM\_ATR\_regulation\_of\_G1\_S\_checkpoint\_GST\_no\_growth\_FDR



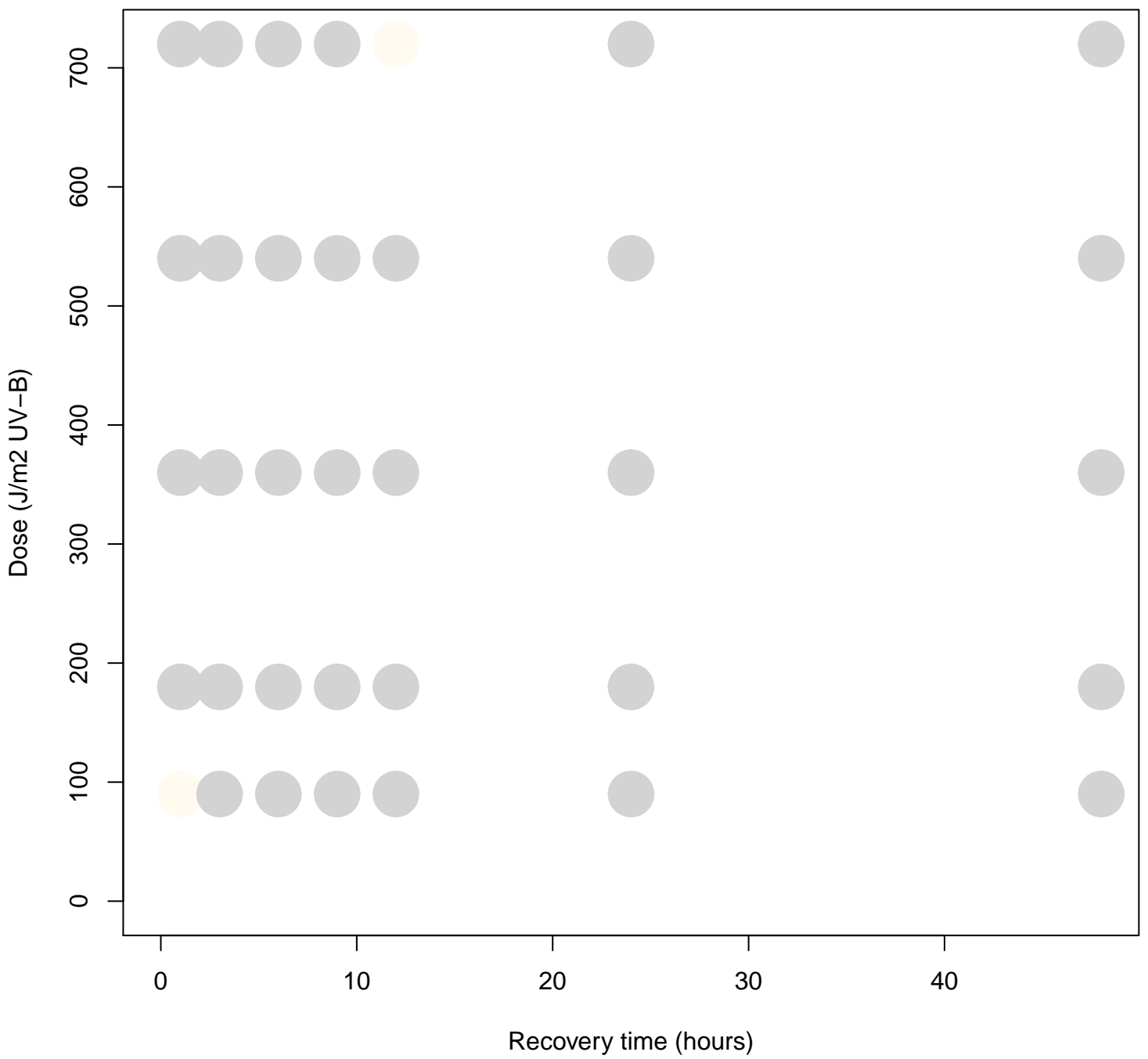
# MC\_maps\_ATM\_ATR\_regulation\_of\_G2\_M\_checkpoint\_GST\_no\_growth\_FDR



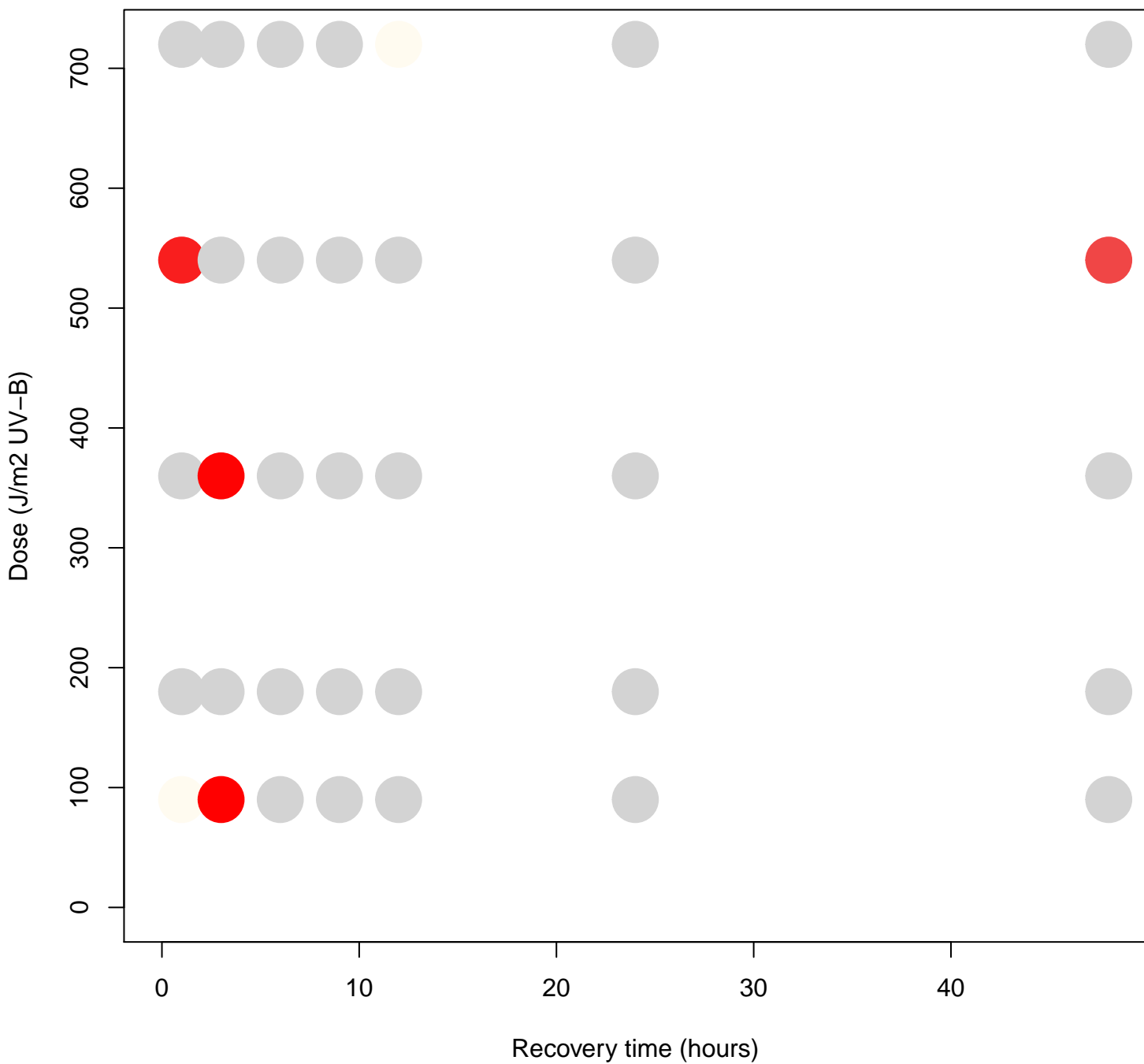
C\_maps\_DNA\_damage\_ATM\_.ATR\_regulation\_of\_G2\_.M\_checkpoint\_GST\_no\_growth



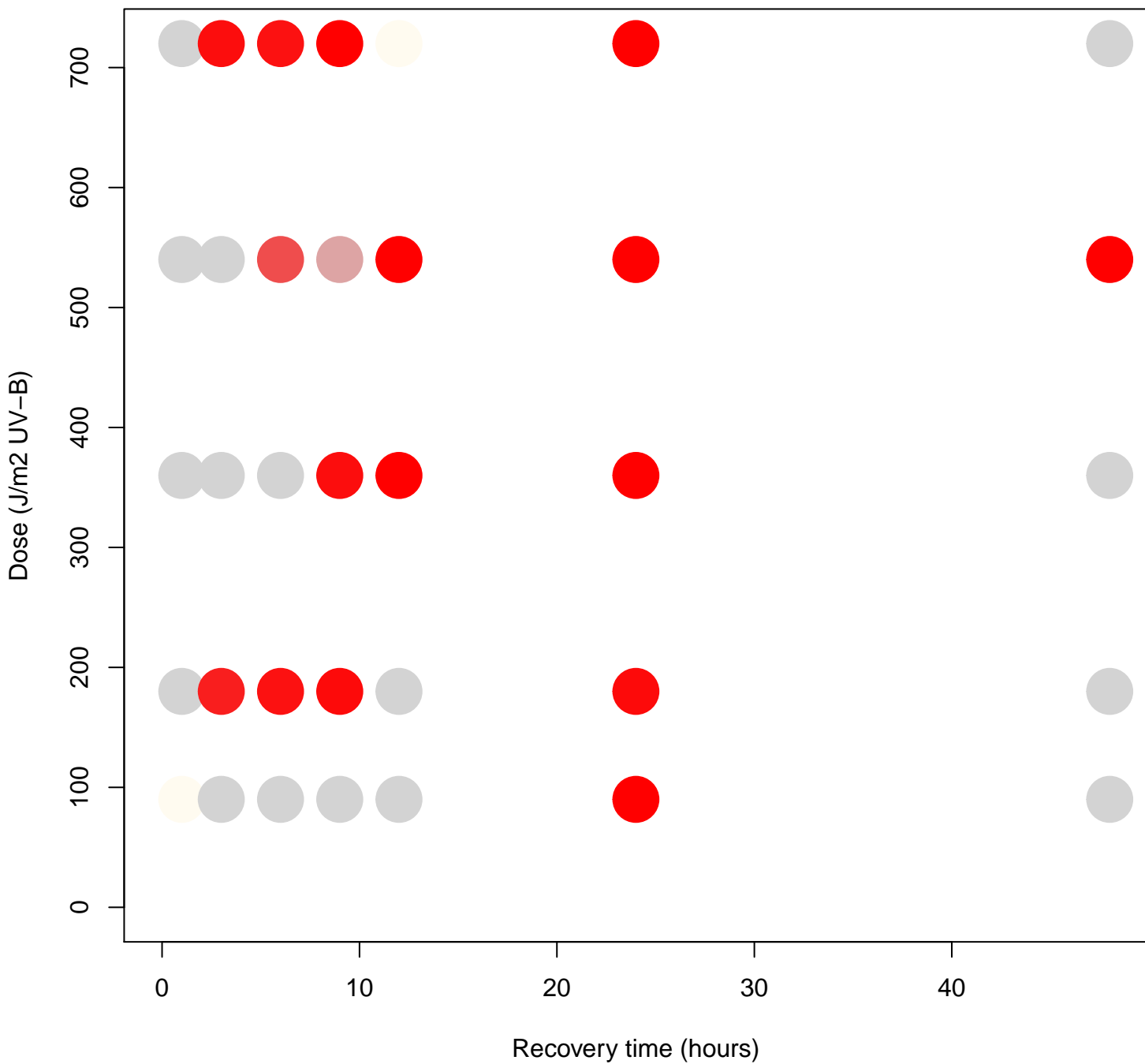
# MC\_maps\_DNA\_damage\_induced\_response\_GST\_no\_growth\_FDR



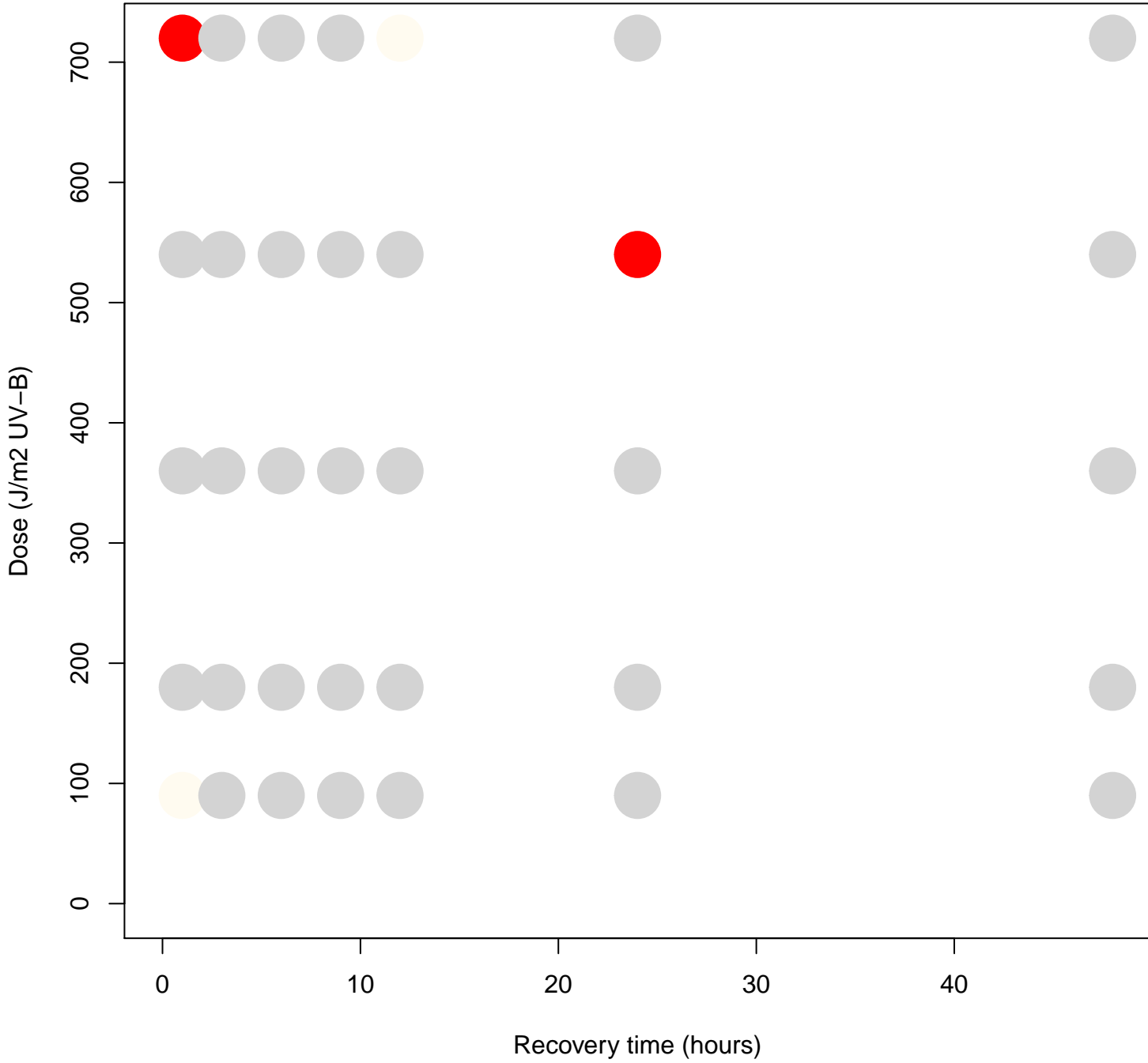
# MC\_maps\_DNA\_damage\_role\_SUMO\_in\_p53\_regulation\_GST\_no\_growth\_FDR



# MC\_maps\_NER\_GST\_no\_growth\_FDR

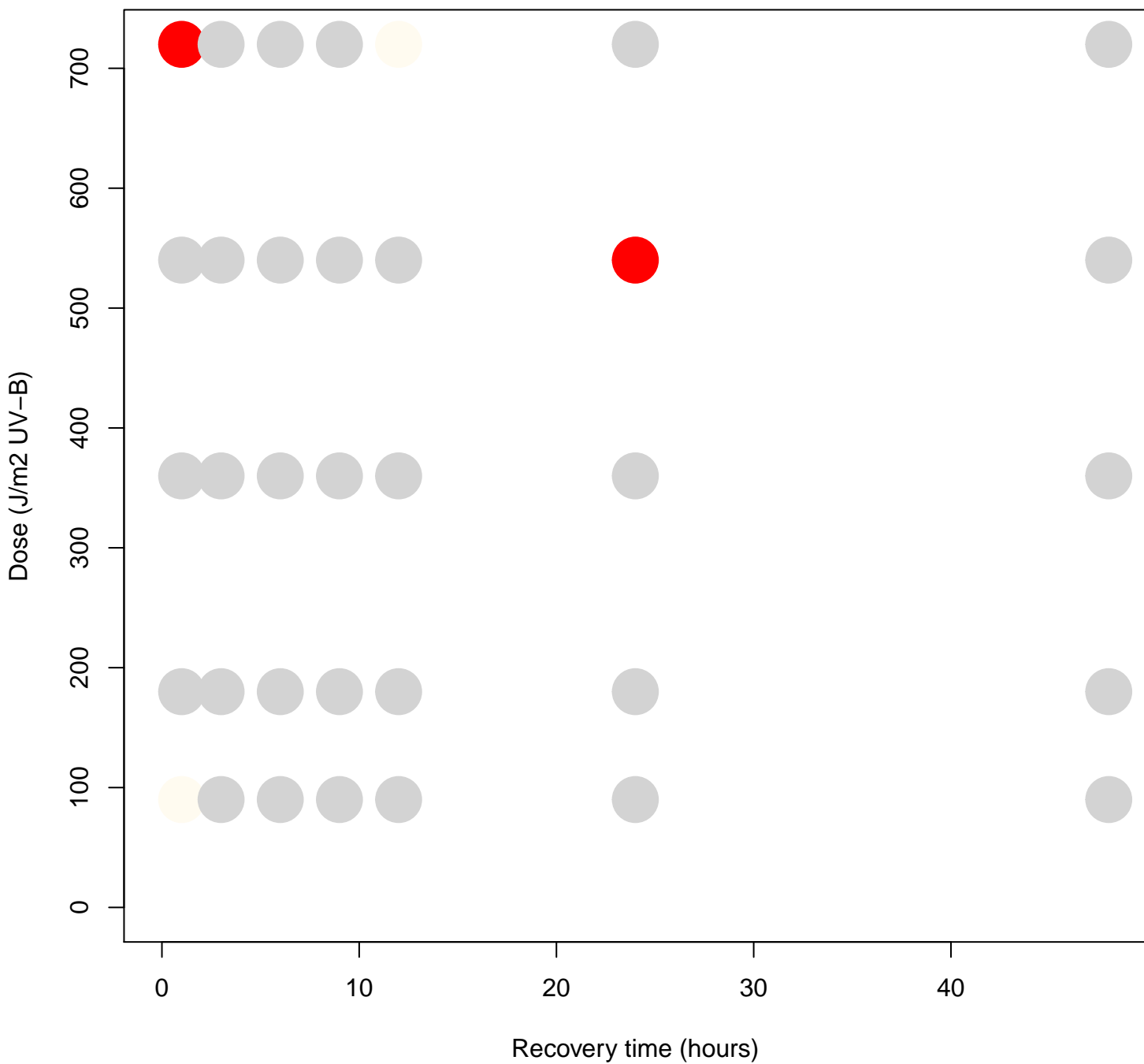


Mcmaps\_regulation\_apoptosis\_mitochondrial\_proteins\_GST\_no\_growth\_FDR

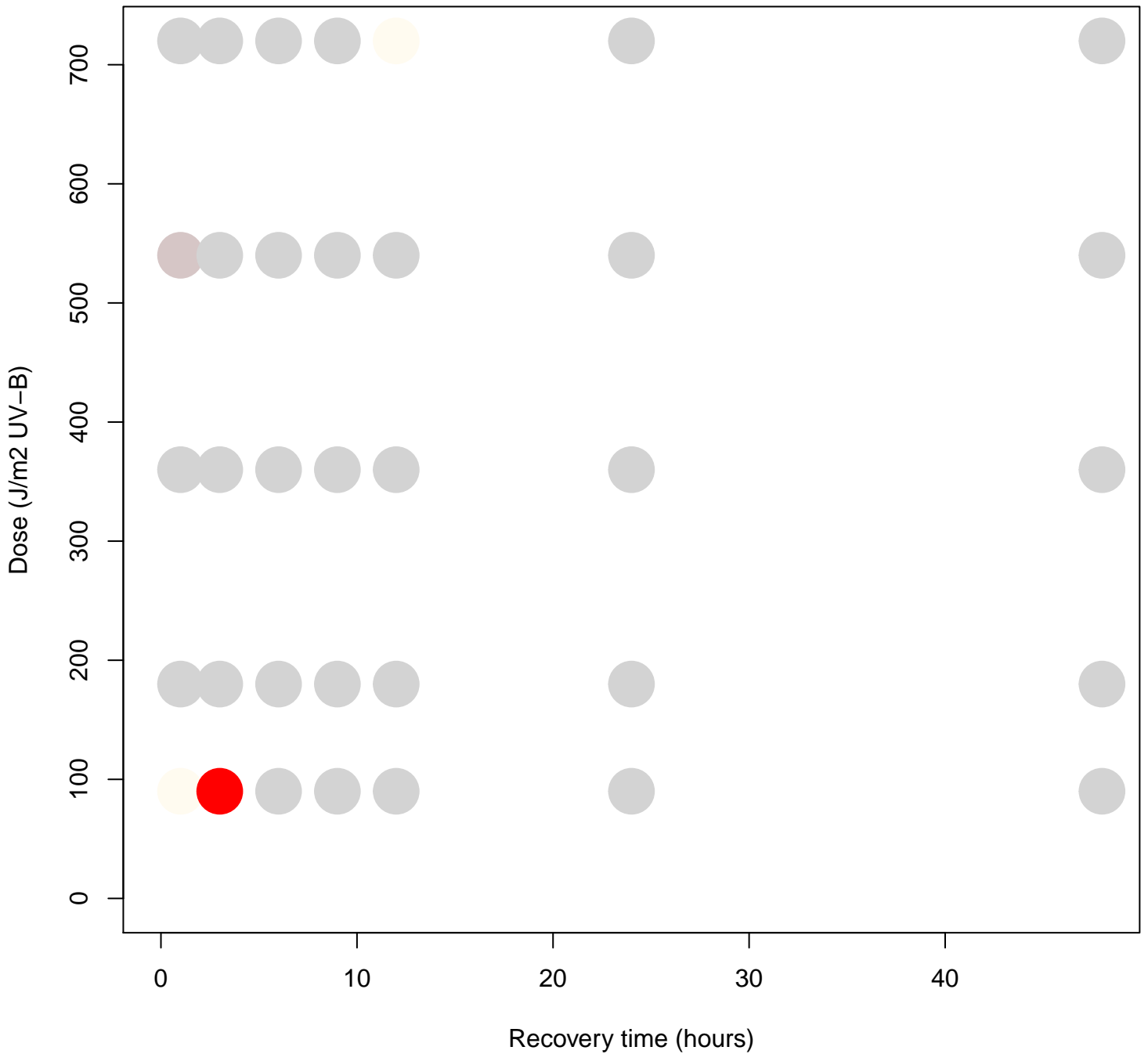




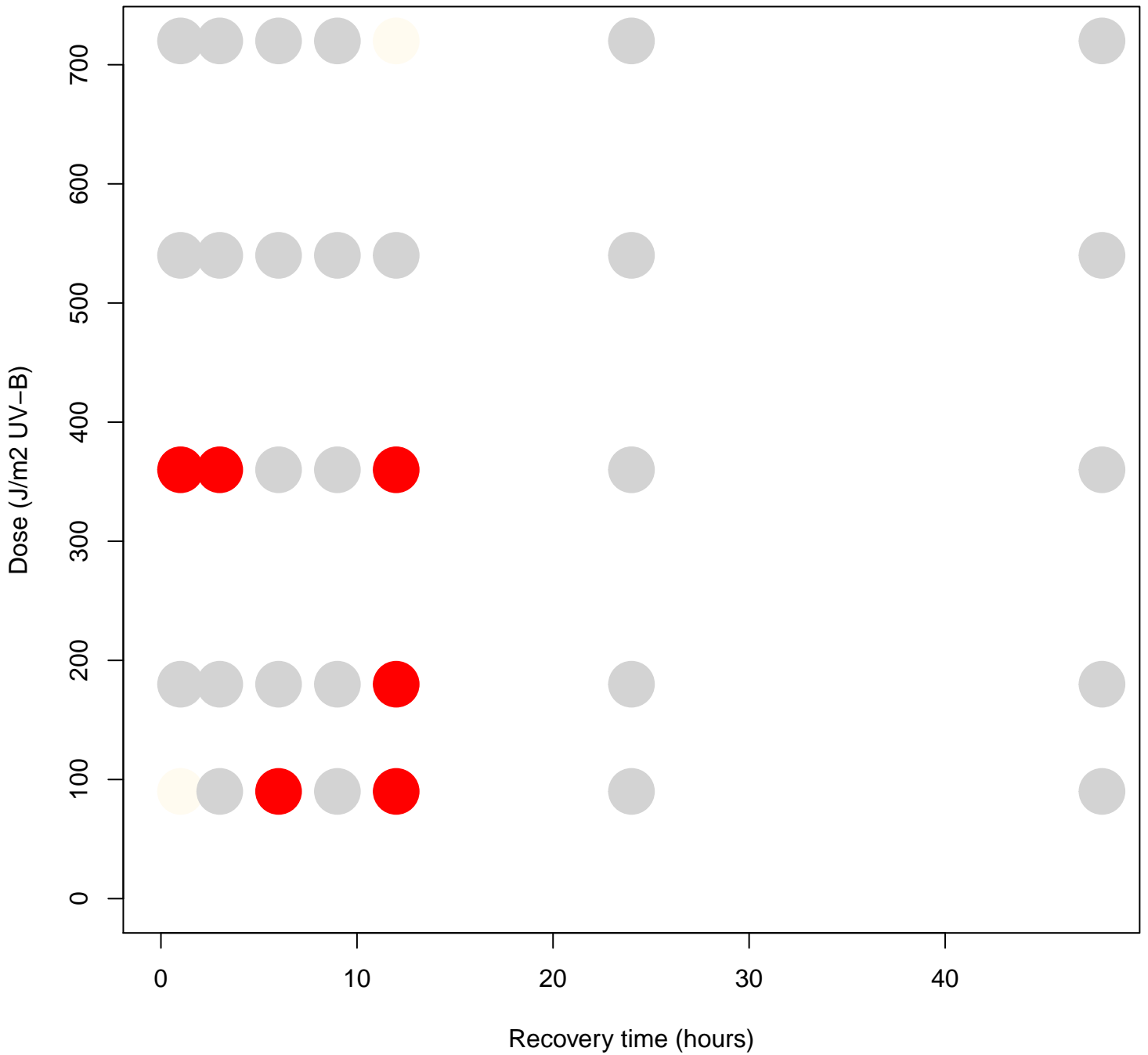
# Mcmaps\_regulation\_apoptosis\_mitochondrial\_proteins.1\_GST\_no\_growth\_FDR



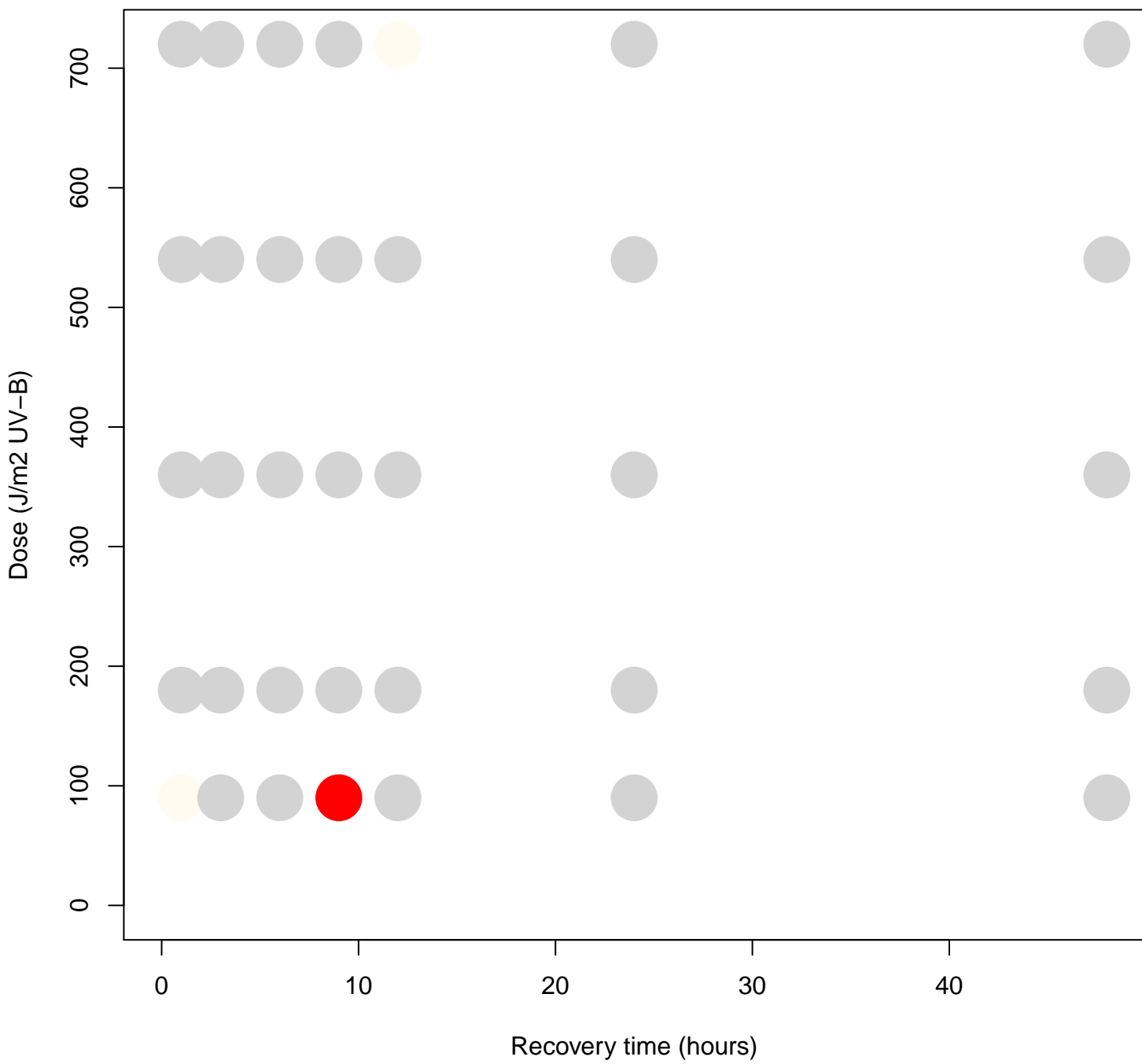
# MC\_maps\_transcription\_p53\_signalling\_pathway\_GST\_no\_growth\_FDR



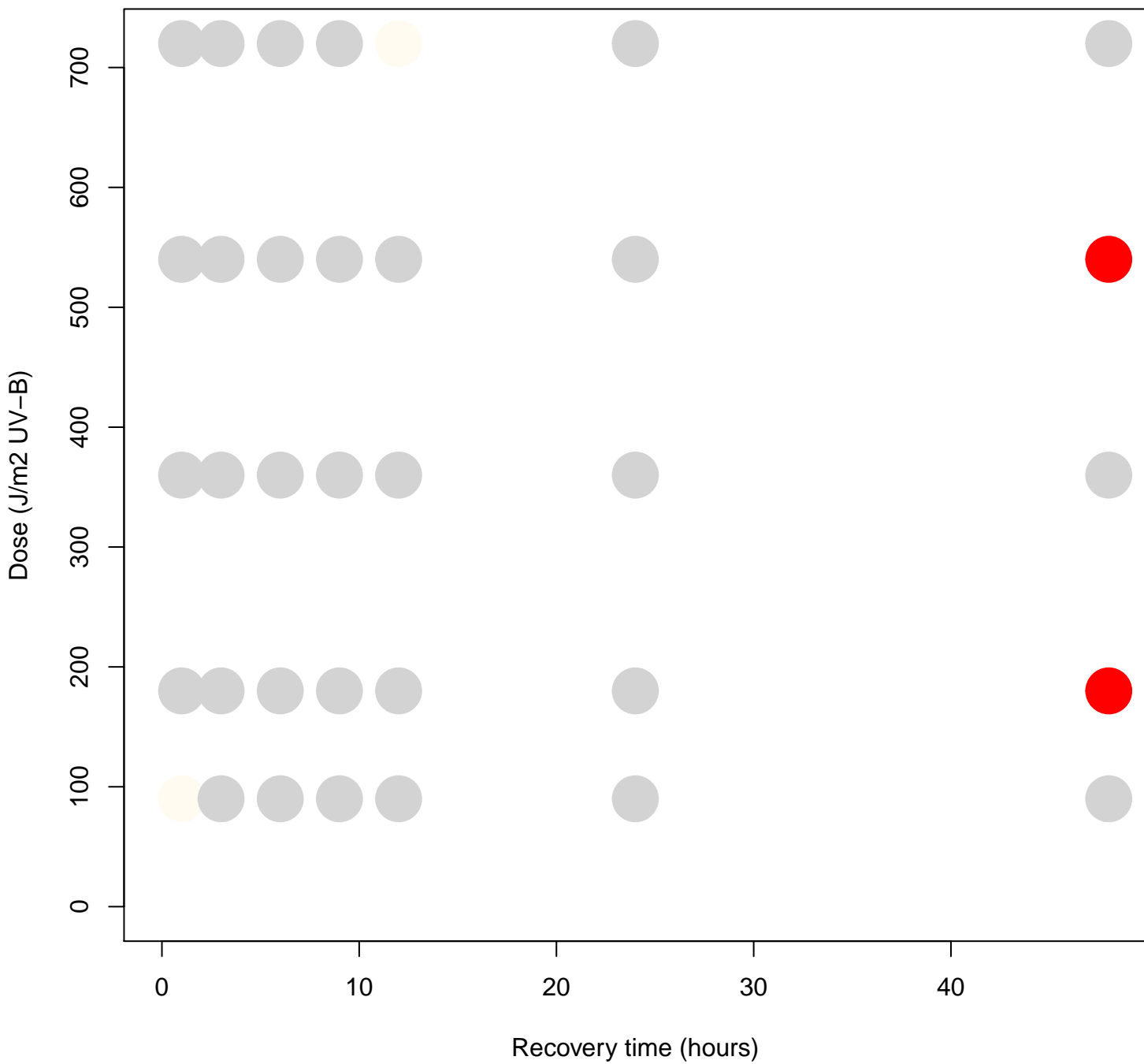
# MC\_porc\_UVB\_response\_GST\_no\_growth\_FDR



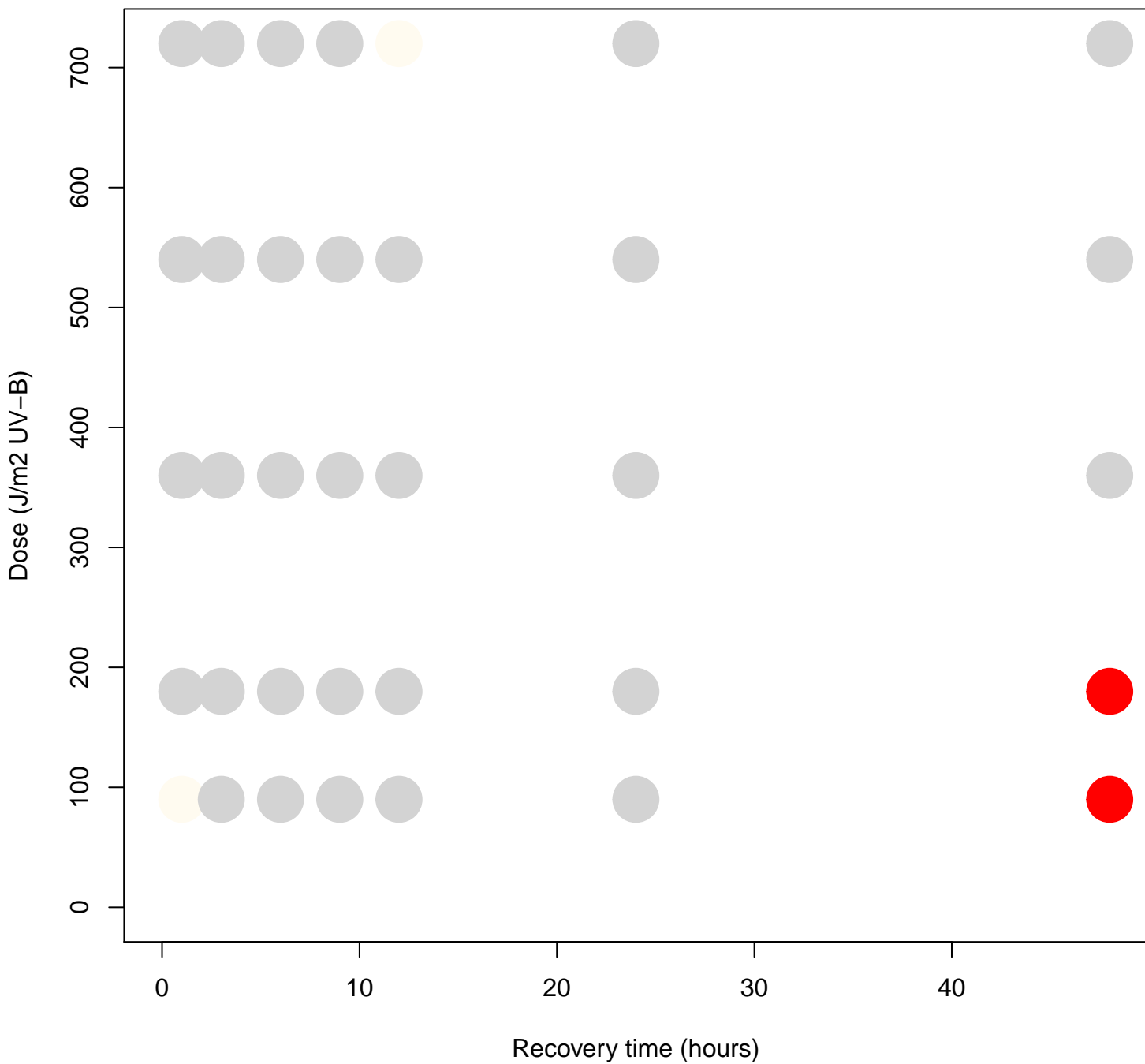
ess\_DNA\_damage\_response\_signal\_transduction\_by\_p53\_cell\_cycle\_arrest\_GST\_no



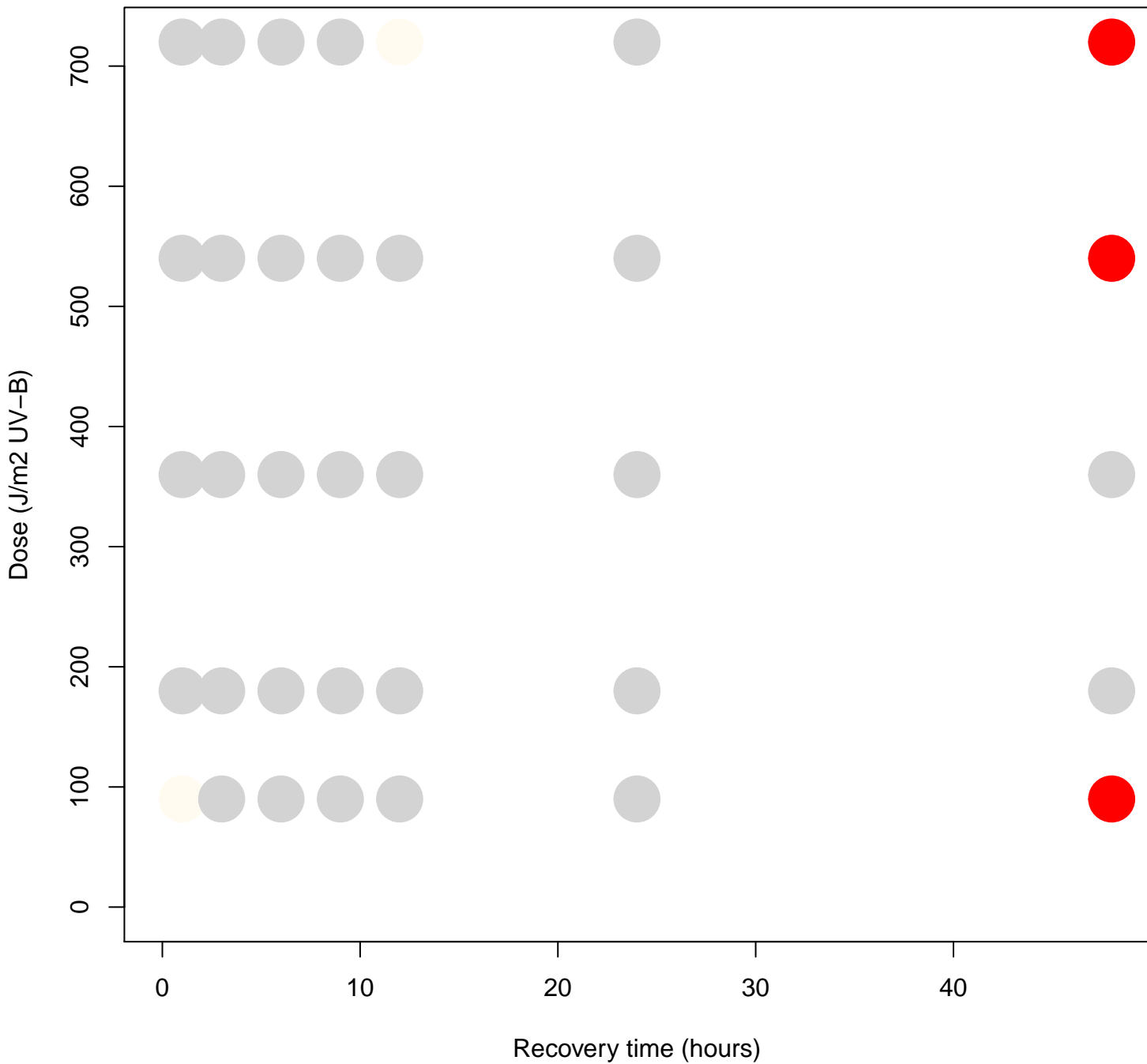
# MC\_process\_G1\_S\_transition\_GST\_no\_growth\_FDR



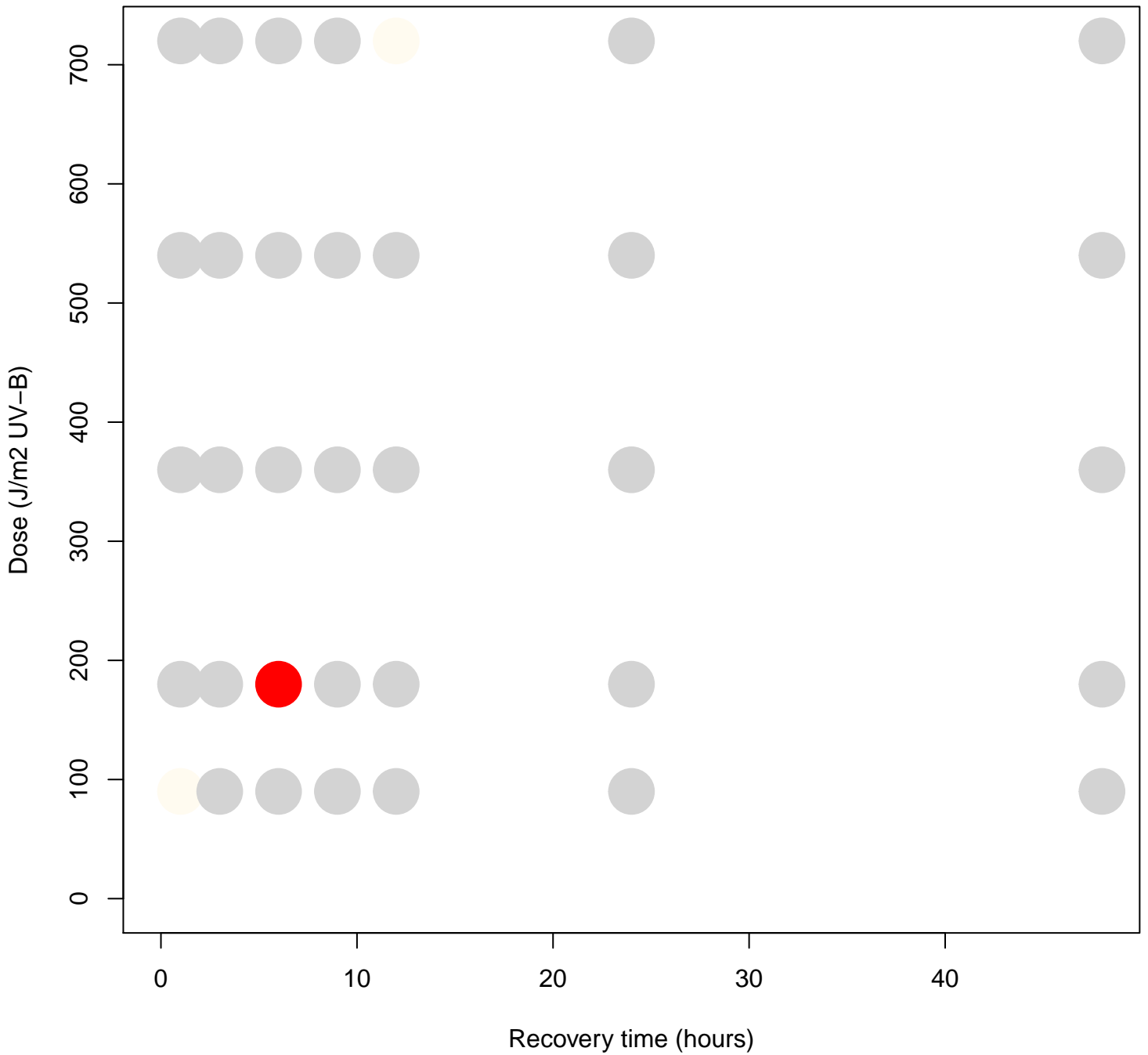
# MC\_process\_UV\_response\_GST\_no\_growth\_FDR



# MC\_process\_UV\_response.1\_GST\_no\_growth\_FDR

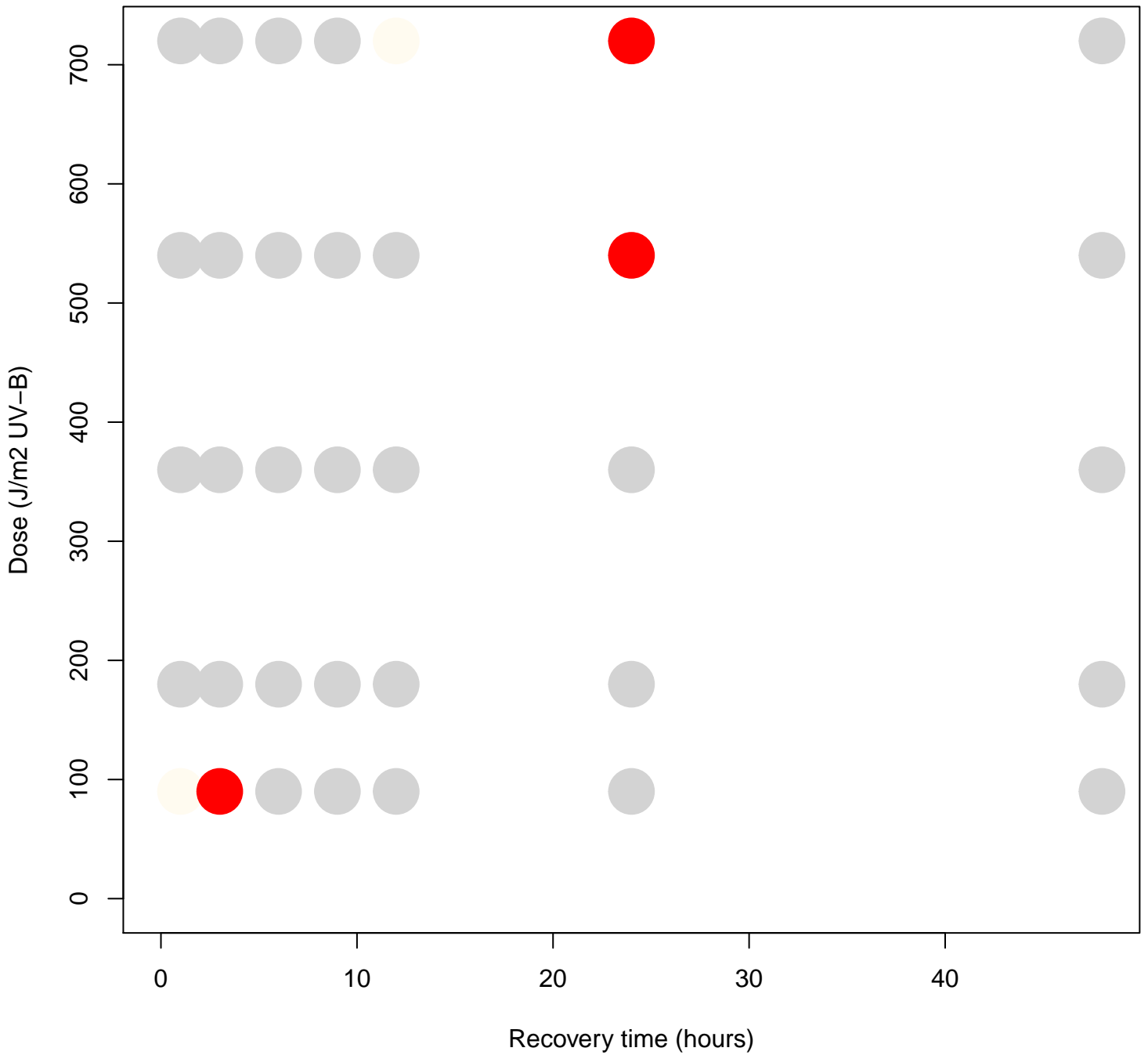


# MC\_proc\_NER\_GST\_no\_growth\_FDR

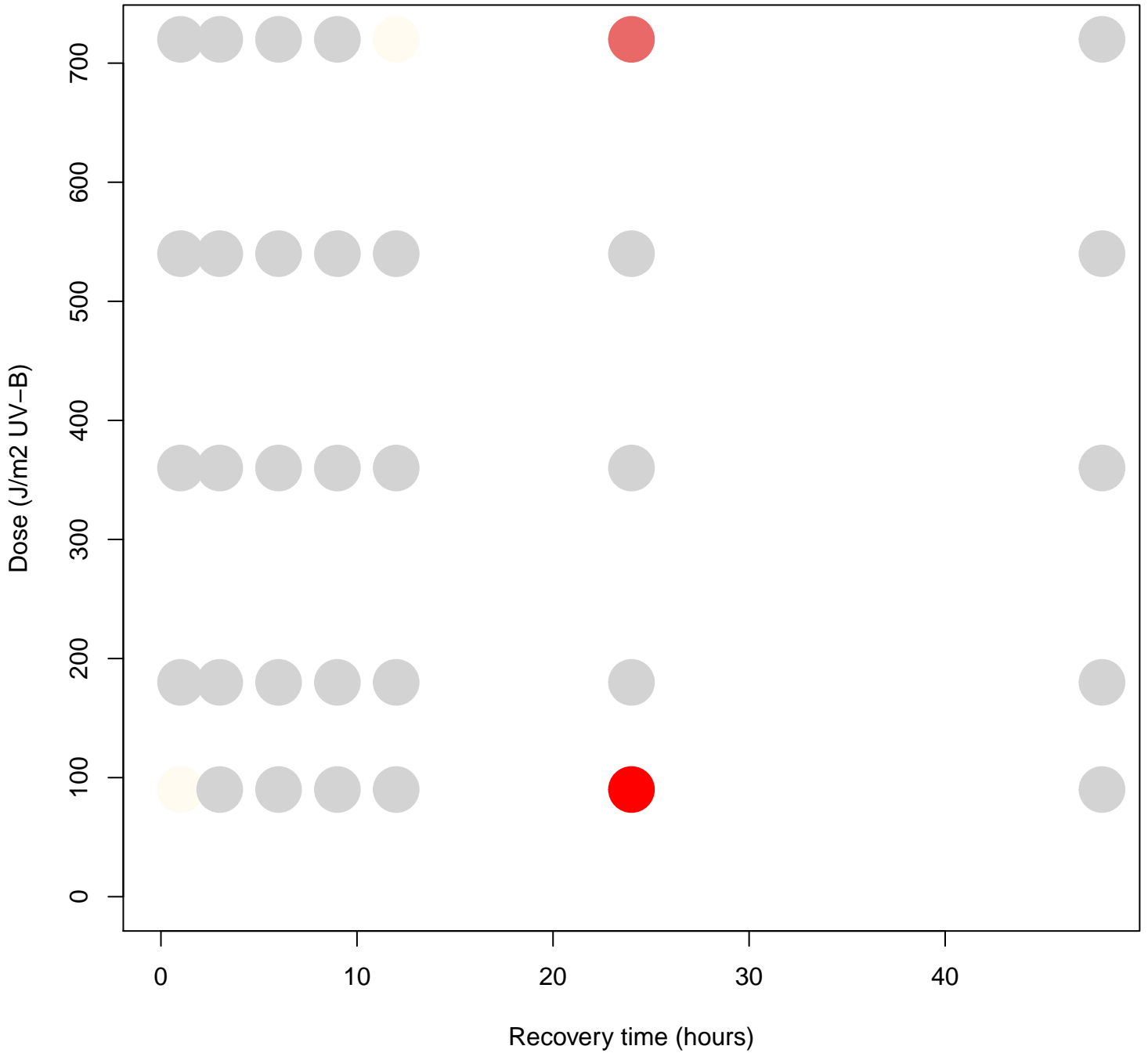




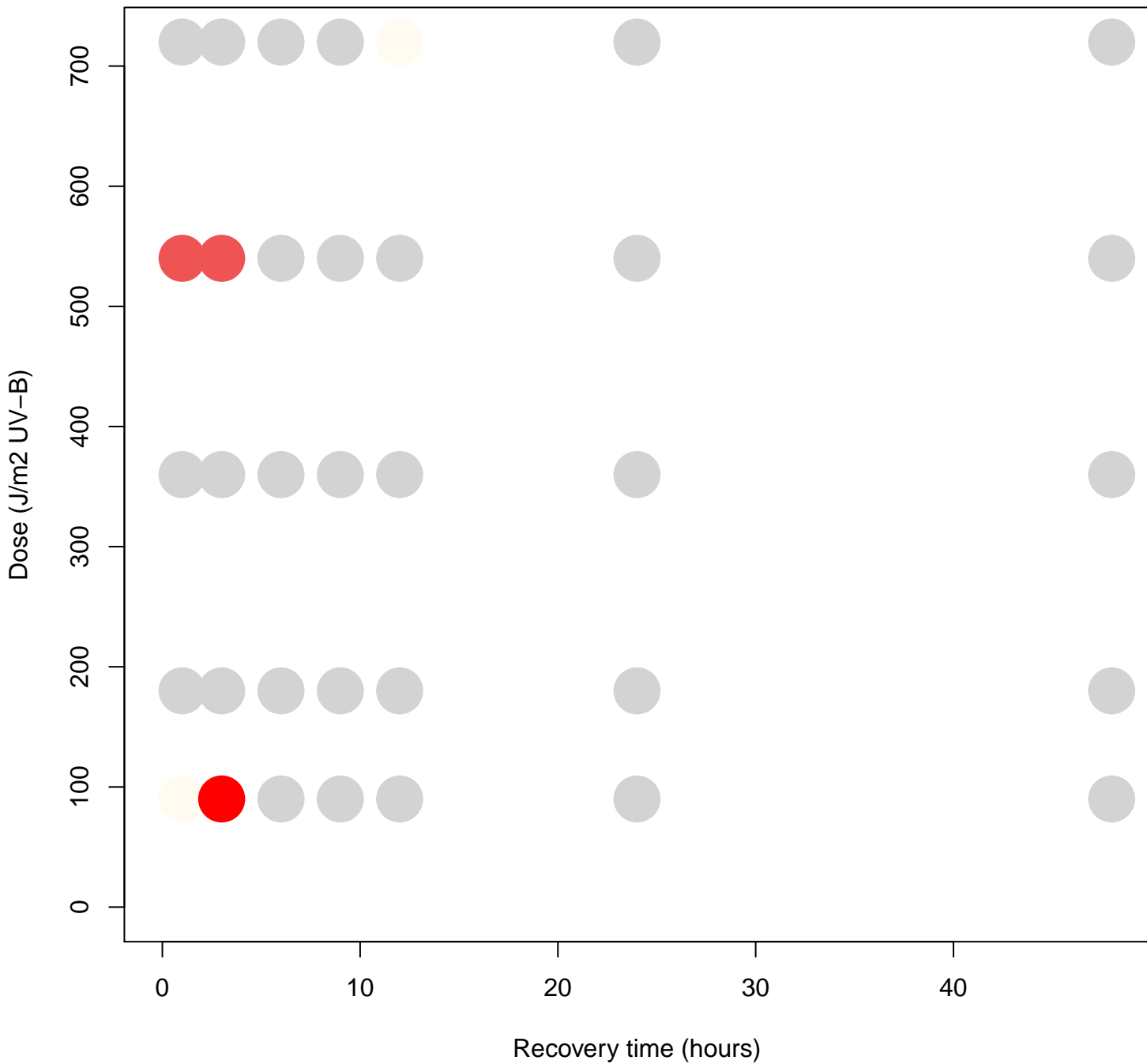
# MC\_proc\_UVC\_response\_GST\_no\_growth\_FDR



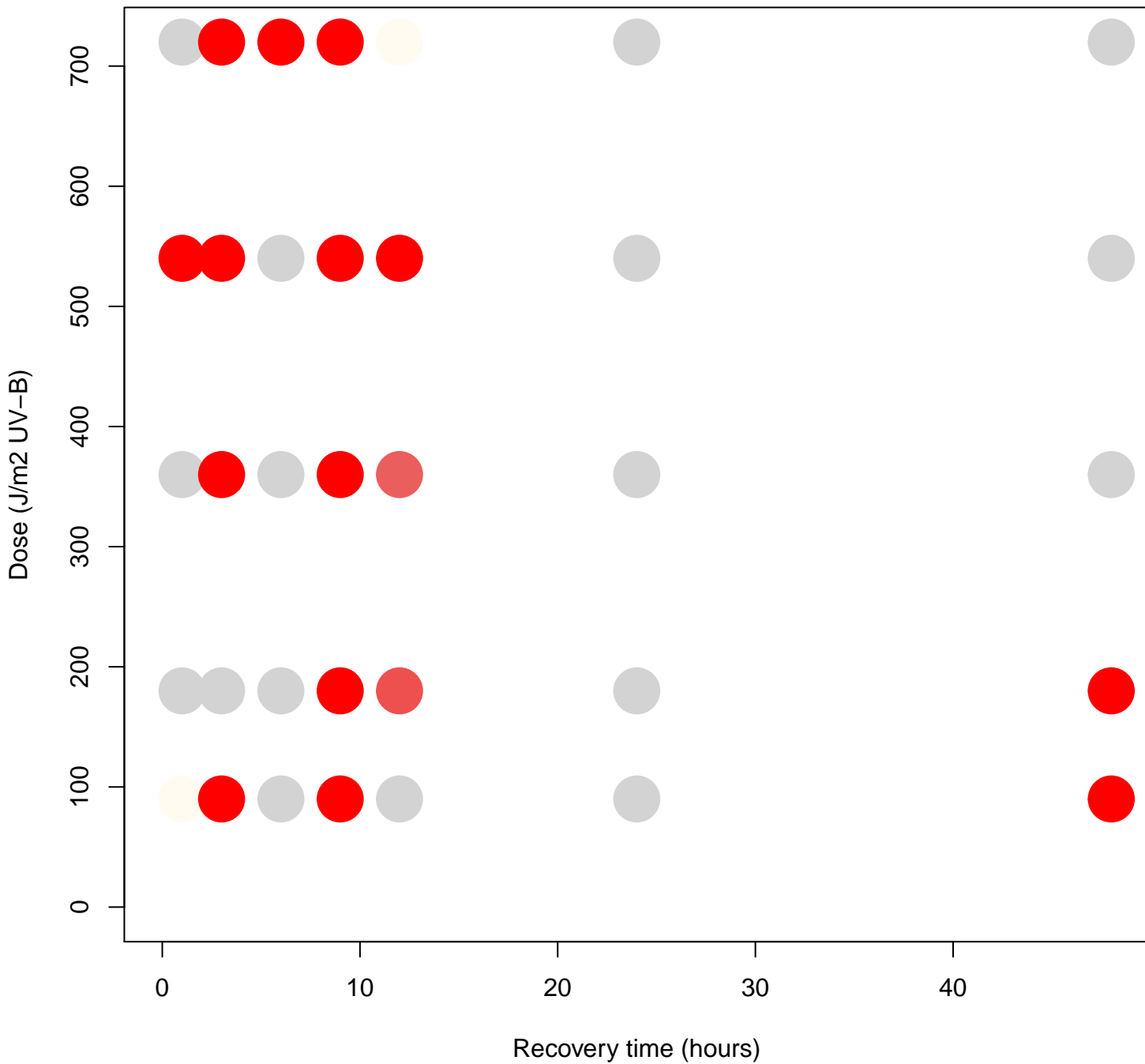
# Proefschrift\_Wendy\_B\_GST\_no\_growth\_FDR



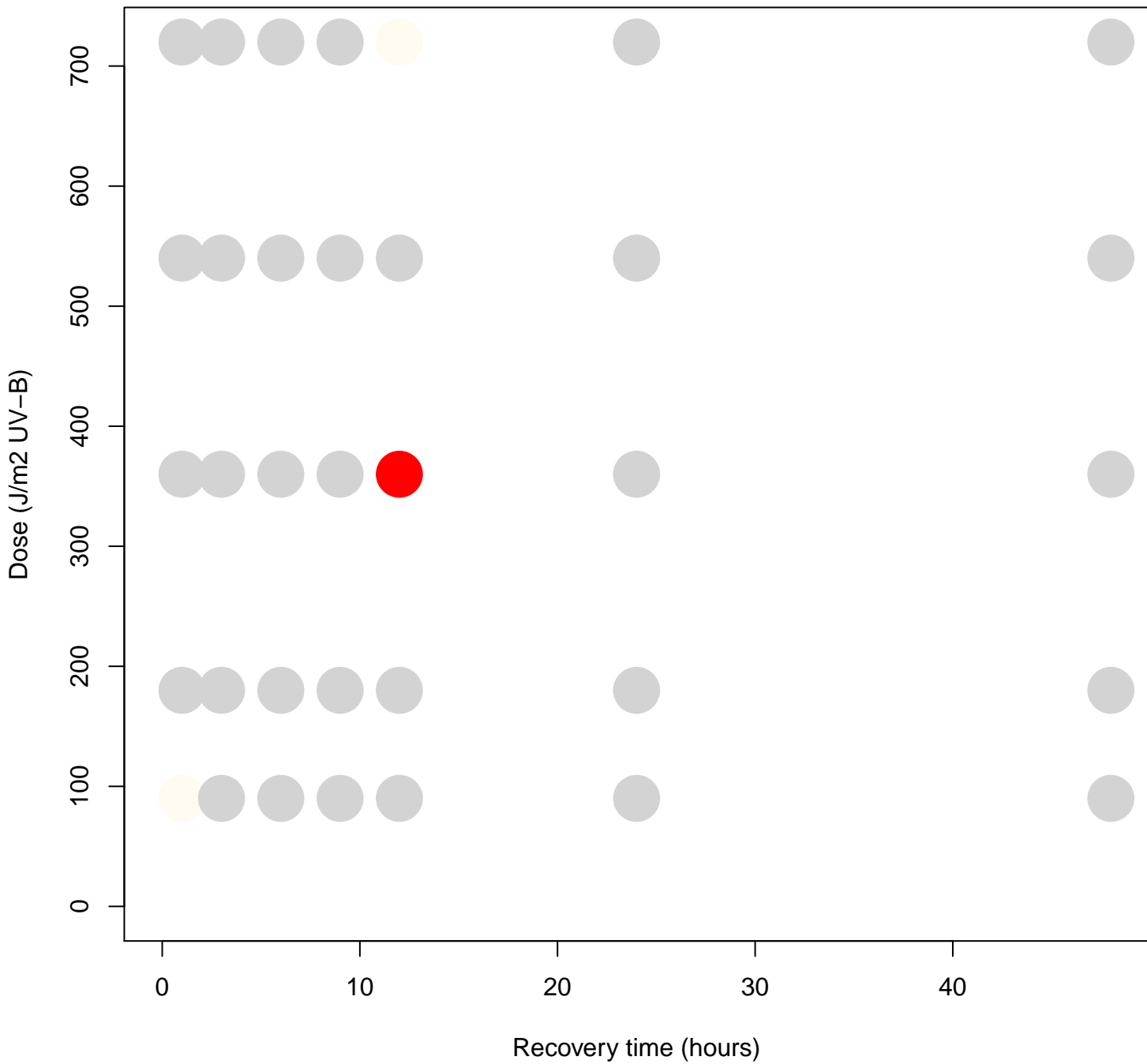
Riley\_S1\_p53\_regulated\_genes\_GST\_no\_growth\_FDR



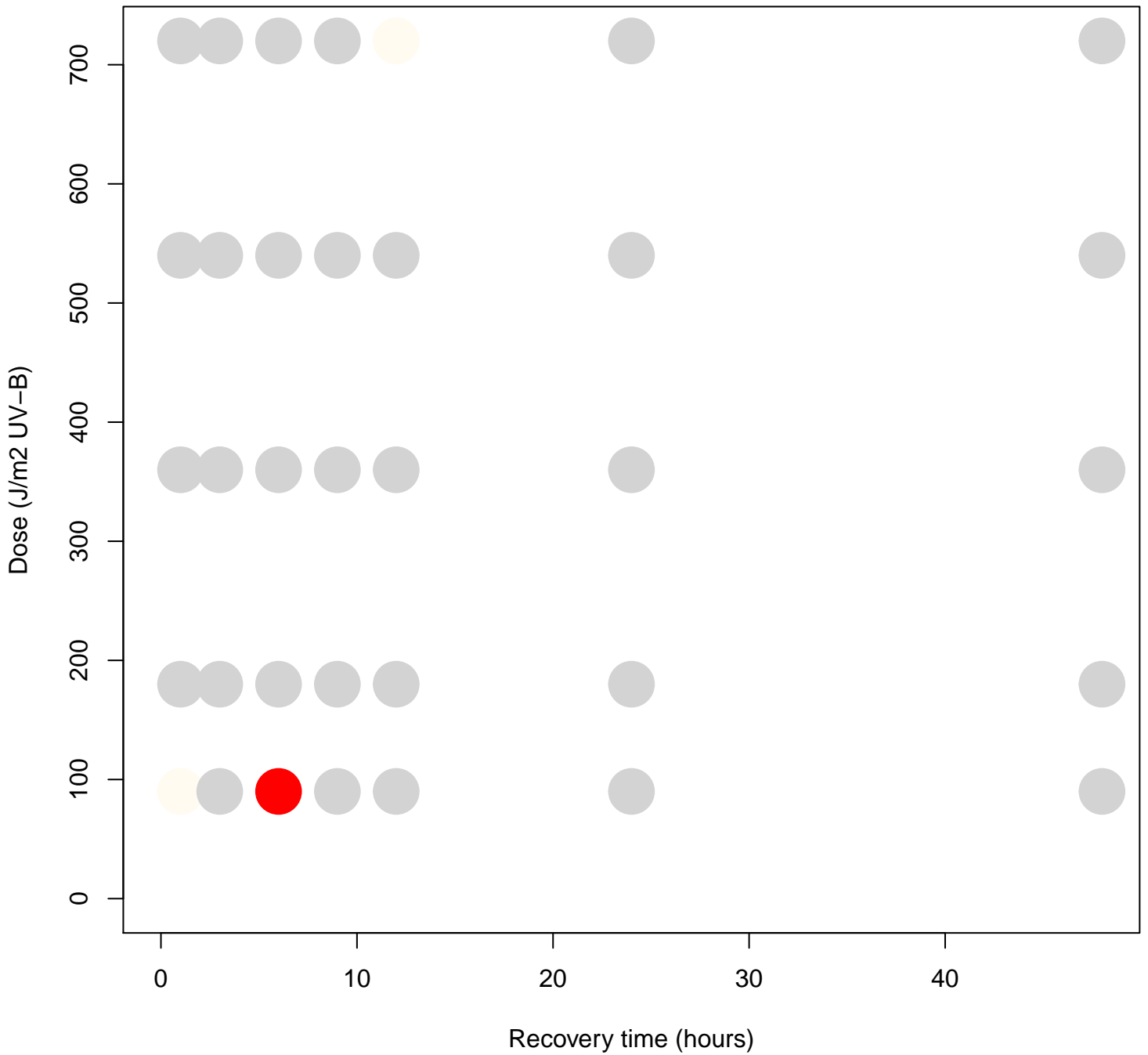
# Smeenk\_S1\_GST\_no\_growth\_FDR



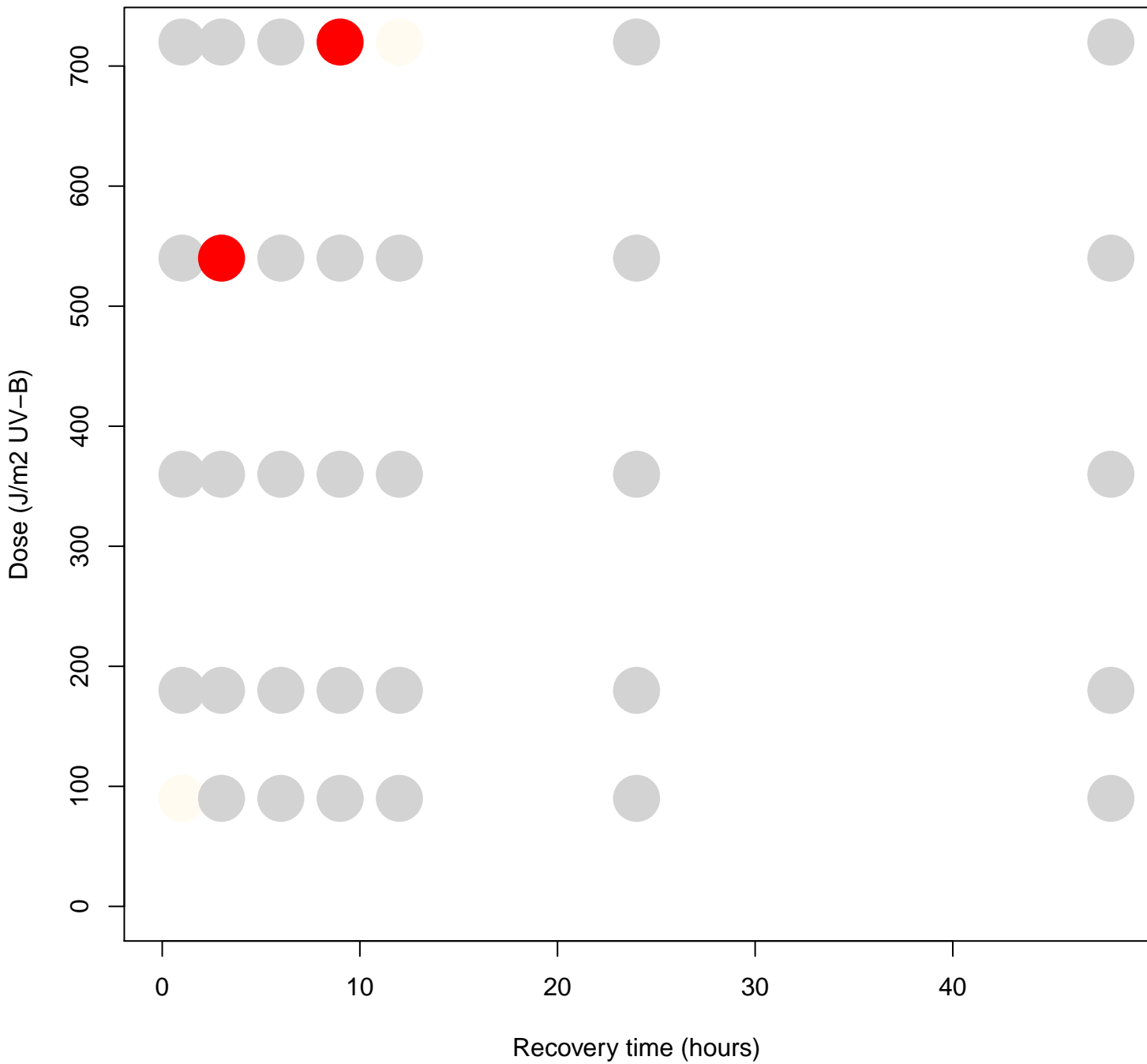
# WEI\_Apoptosis\_Cell\_Cycle\_GST\_no\_growth\_FDR



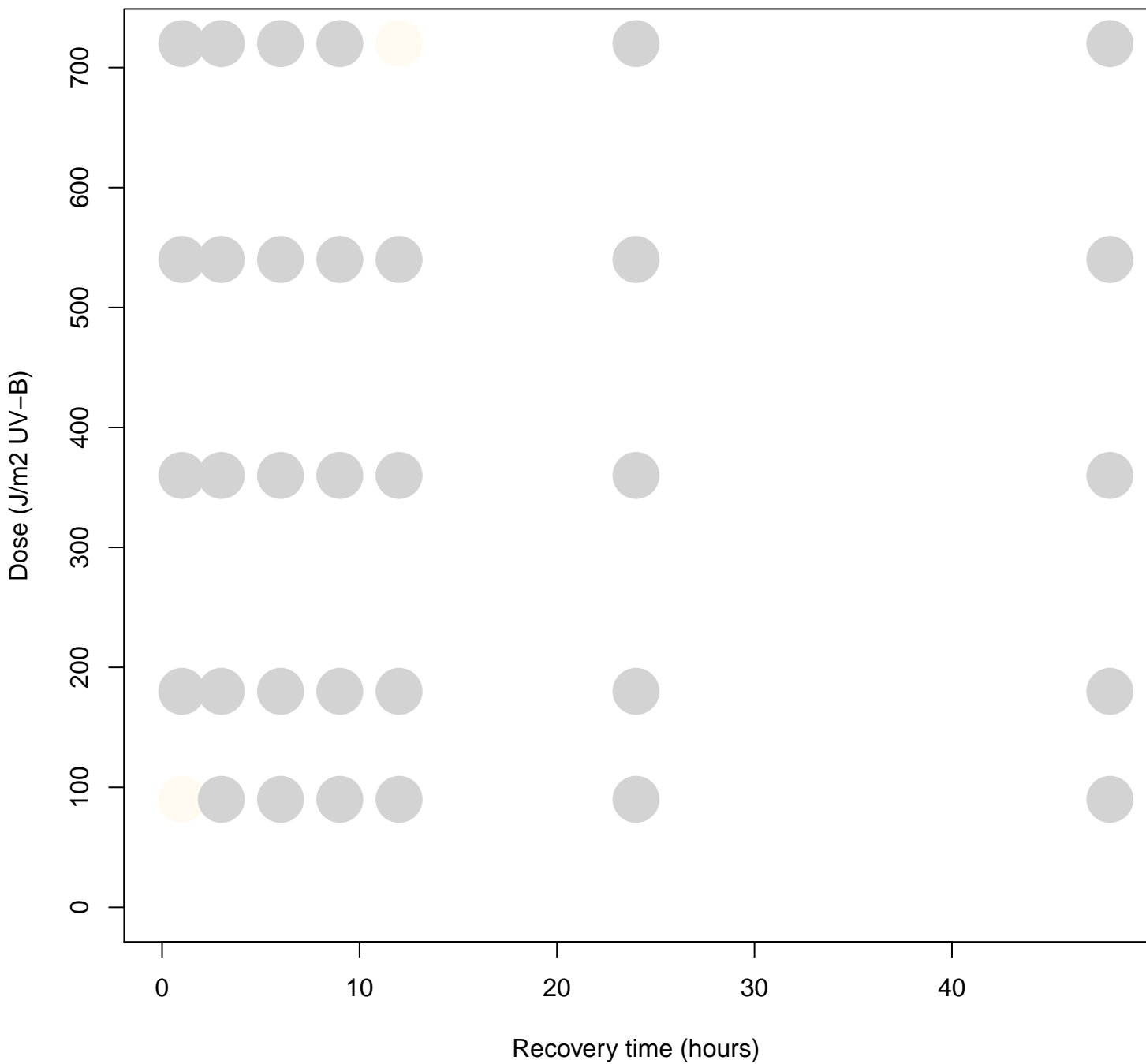
# WEI\_Biosynthesis\_Metabolism\_GST\_no\_growth\_FDR



# WEI\_Cell\_Adhesion\_Mobility\_GST\_no\_growth\_FDR

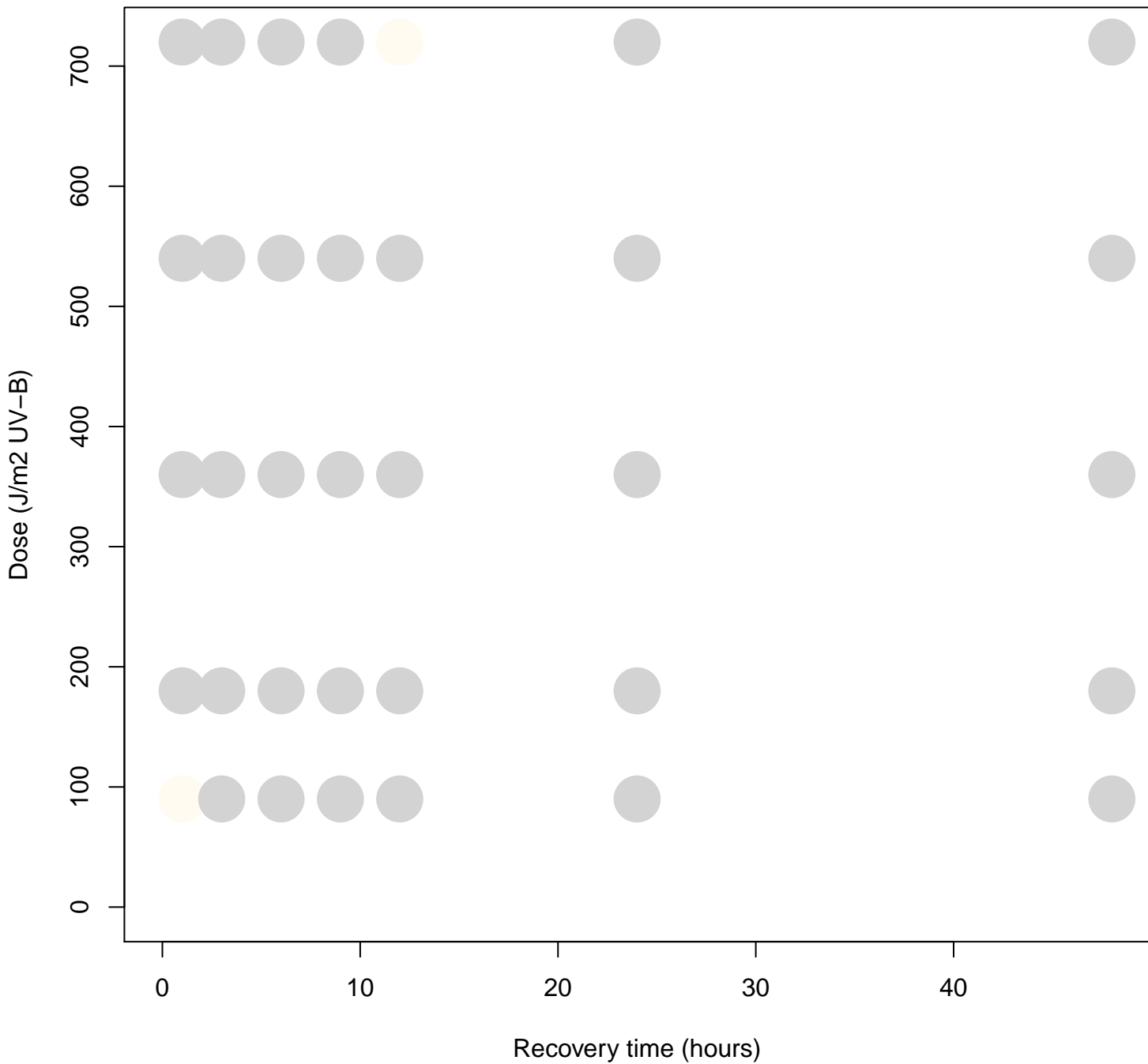


# WEI\_Cell\_Growth\_Differentiation\_GST\_no\_growth\_FDR

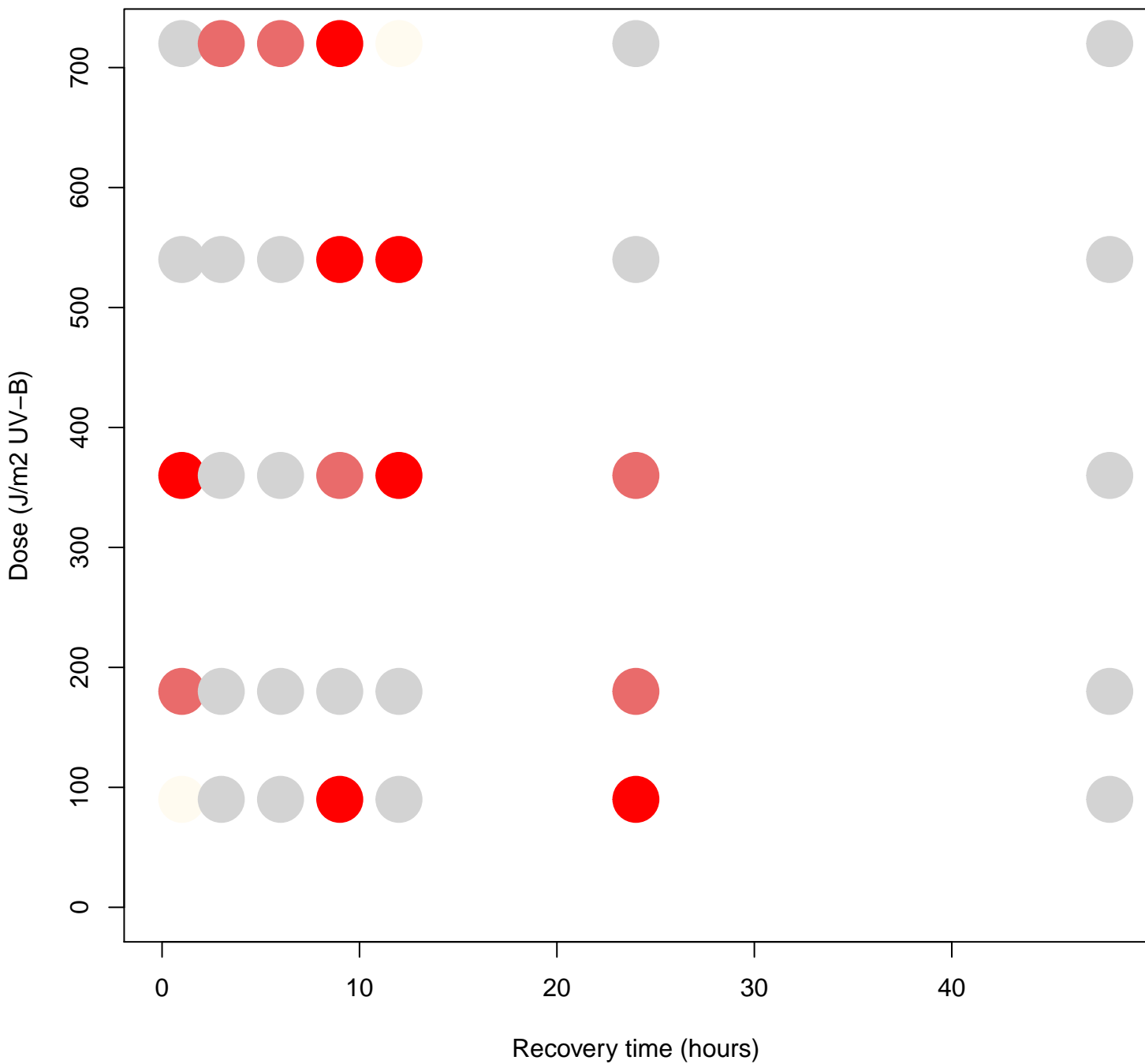




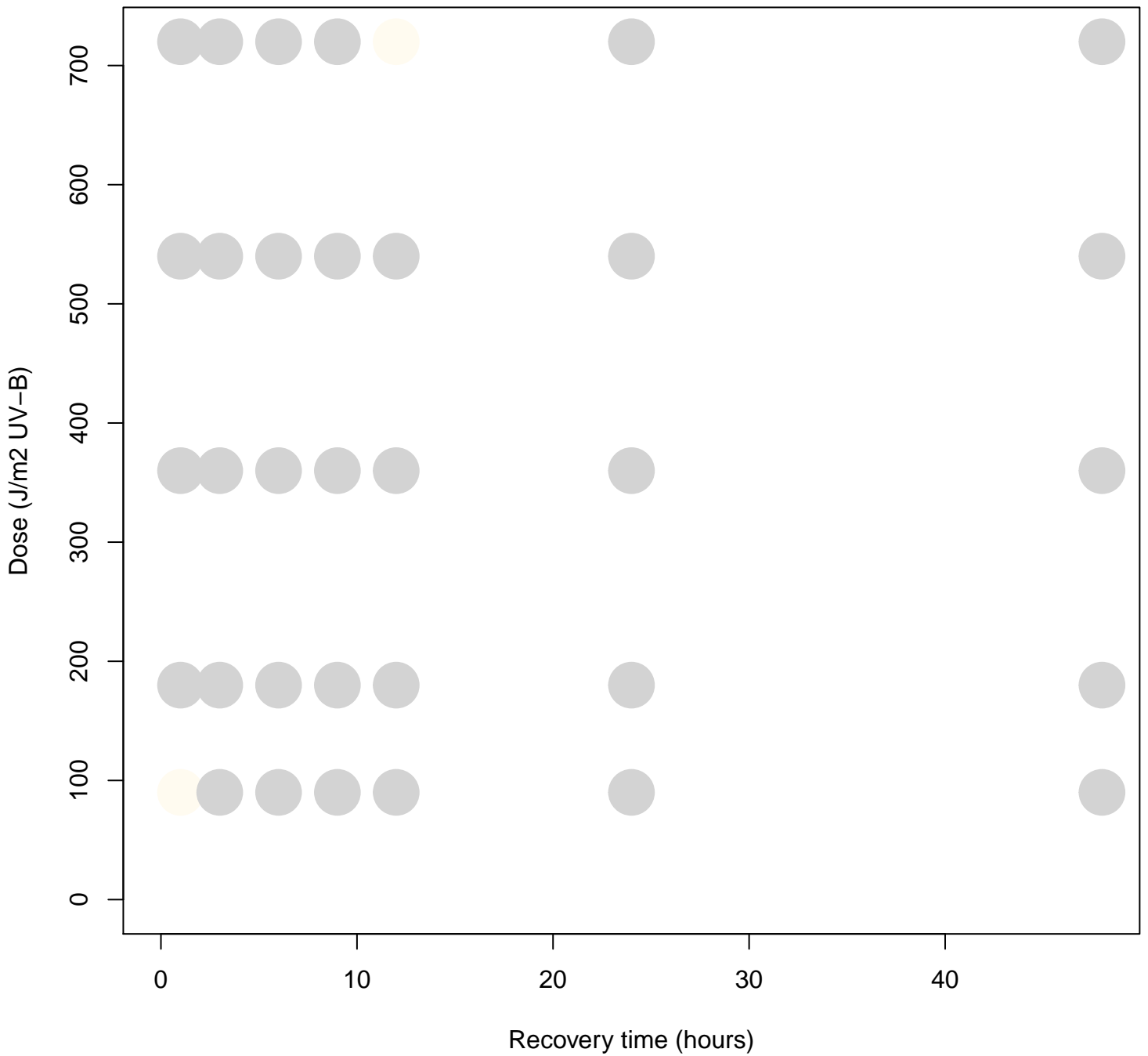
# WEI\_DNA\_Repair\_Chr.\_Modifier\_GST\_no\_growth\_FDR



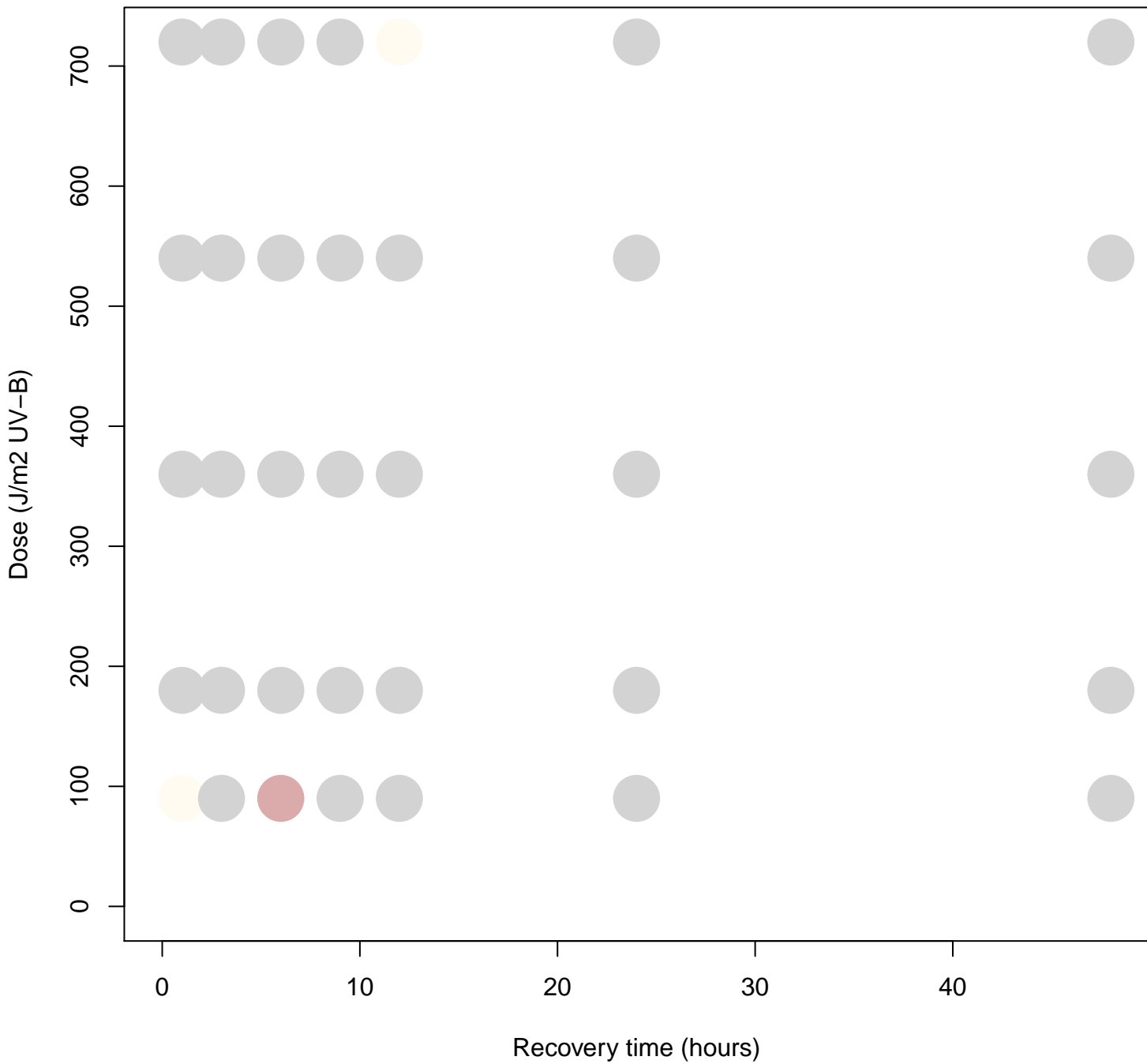
# WEI\_Protein\_Catabolism\_GST\_no\_growth\_FDR



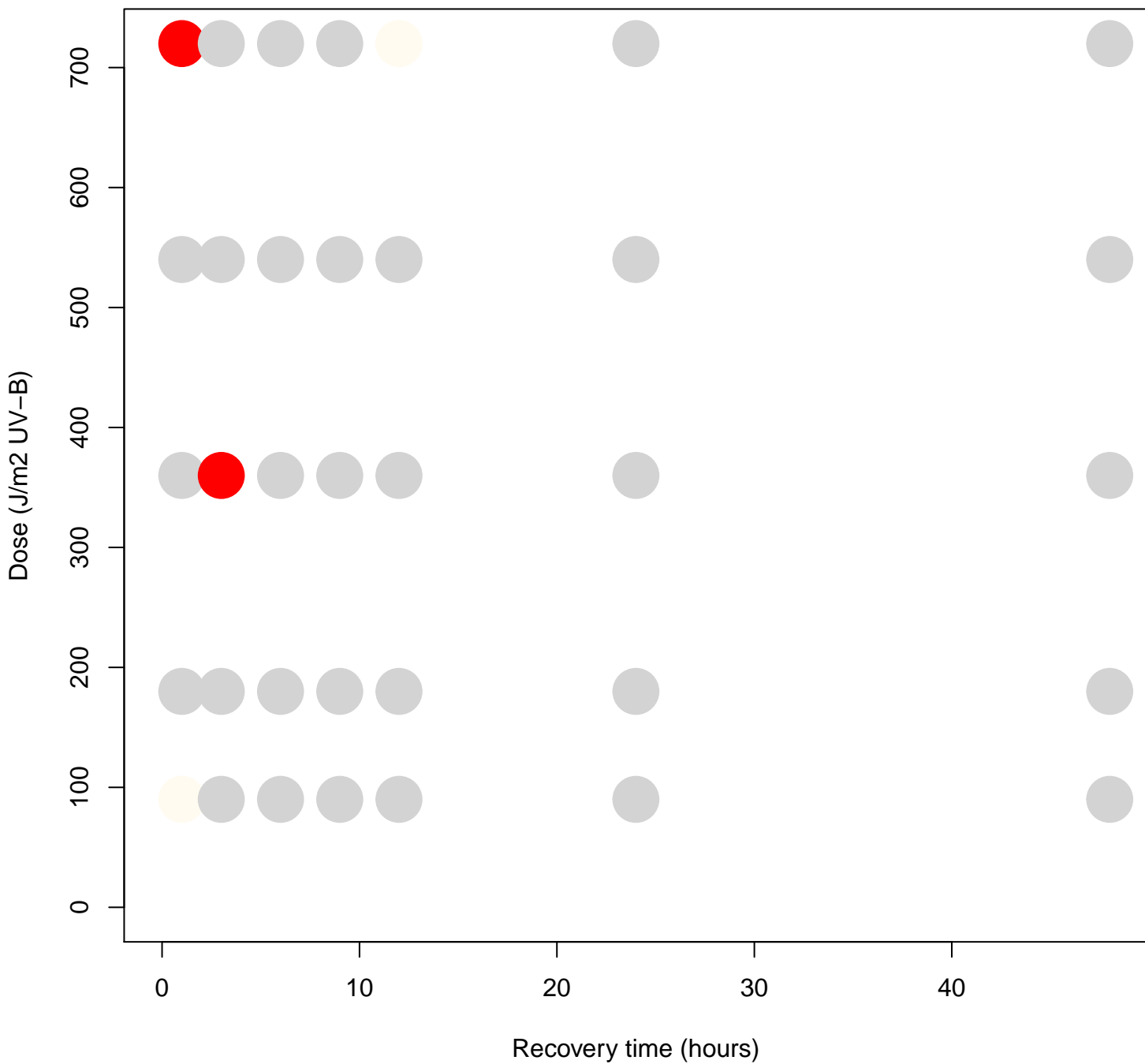
# Wei\_s4\_apoptosis\_GST\_no\_growth\_FDR



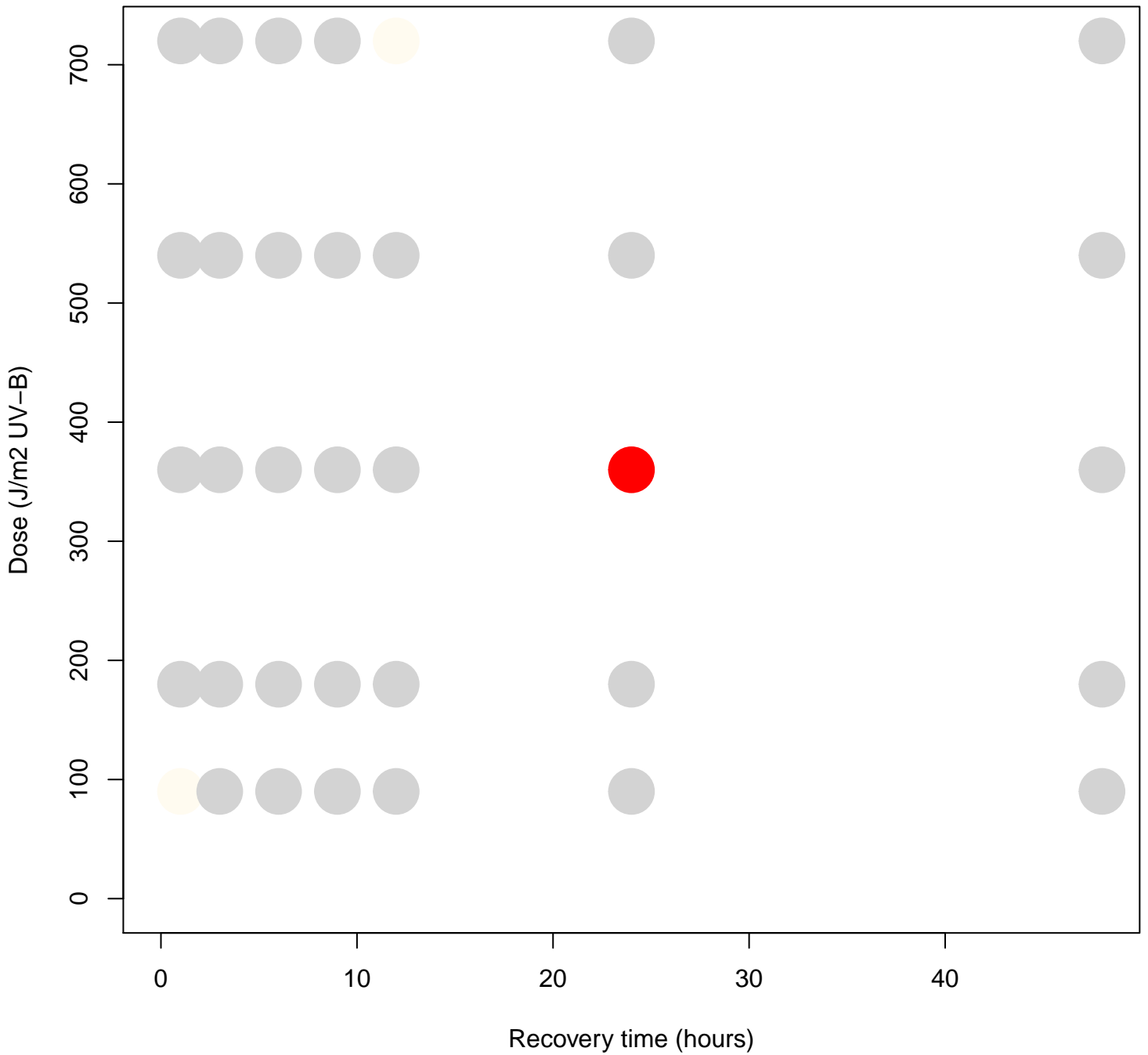
# Wei\_s4\_cell\_cycle\_GST\_no\_growth\_FDR



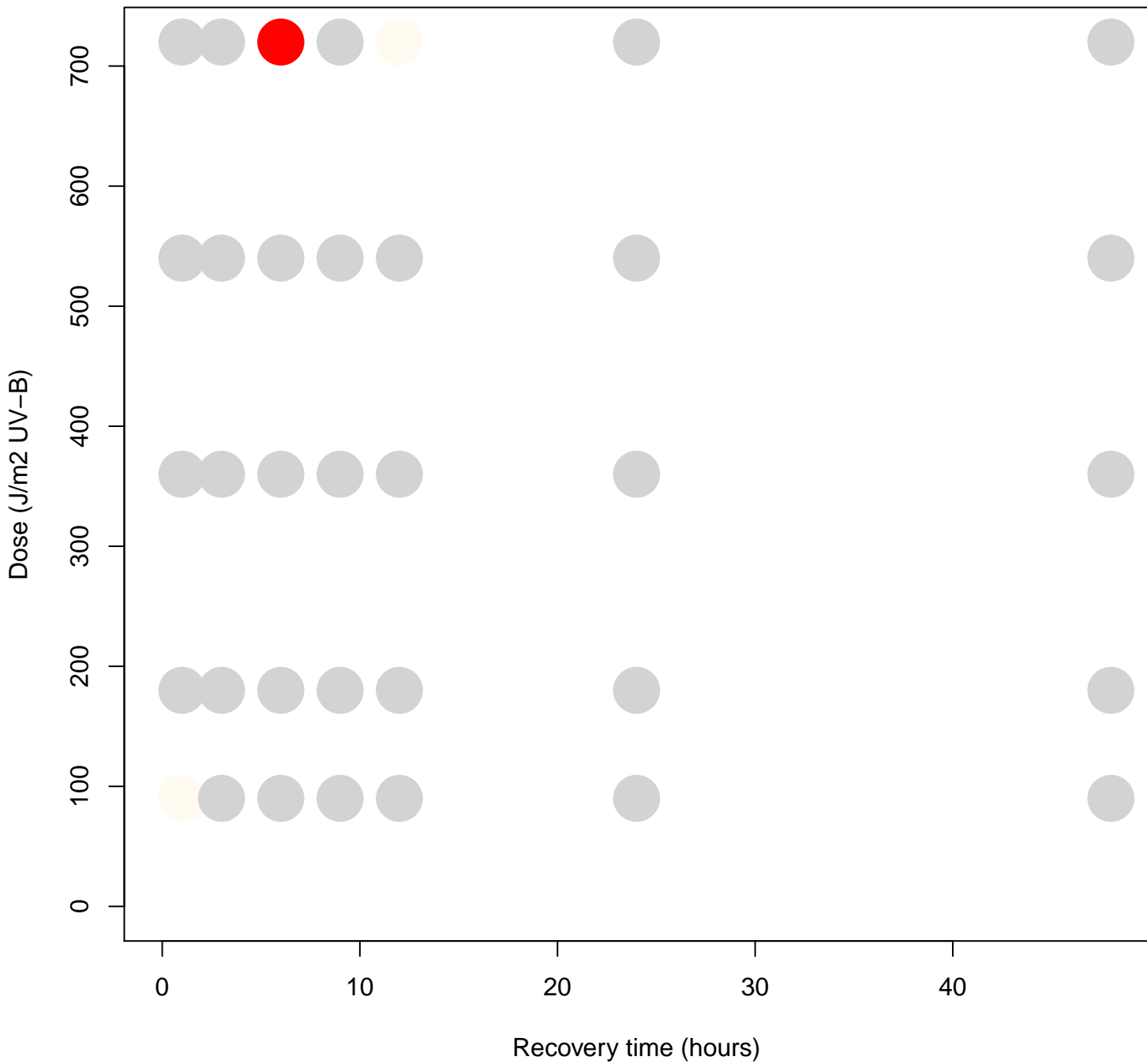
Wei\_s4\_Cell\_growth\_GST\_no\_growth\_FDR



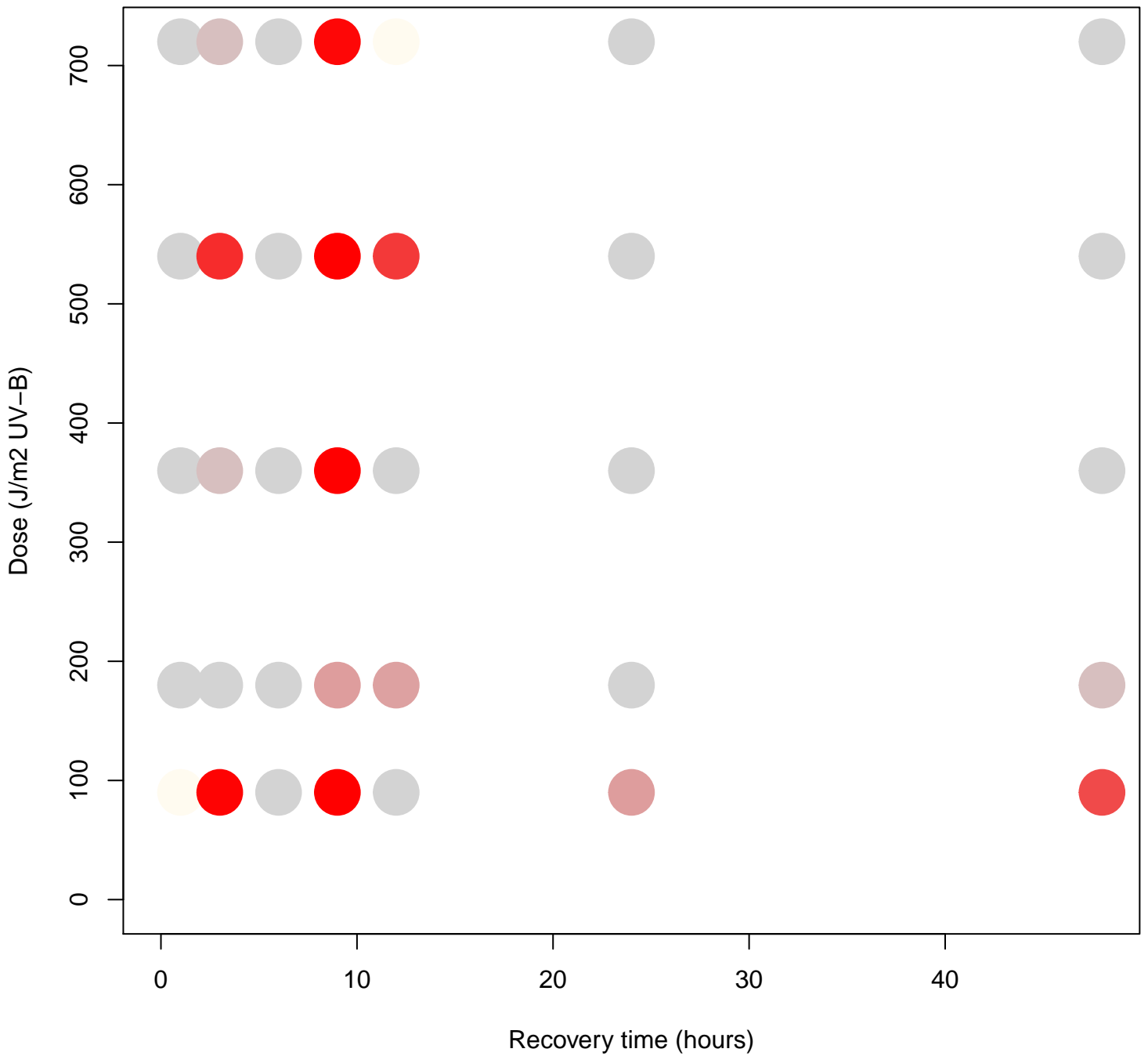
# Wei\_s4\_DNA\_repair\_GST\_no\_growth\_FDR



# Wei\_S4\_metabolism\_GST\_no\_growth\_FDR

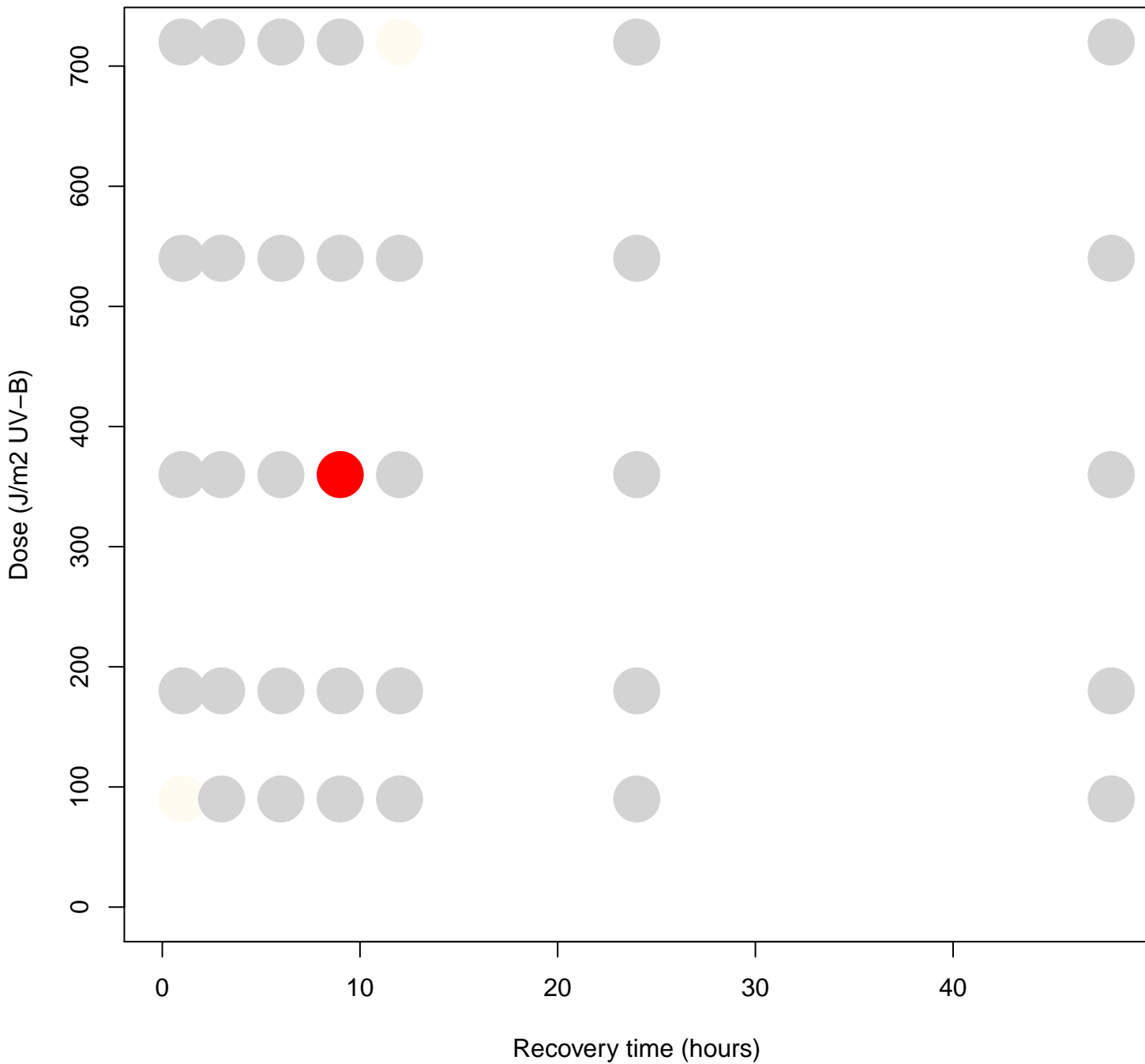


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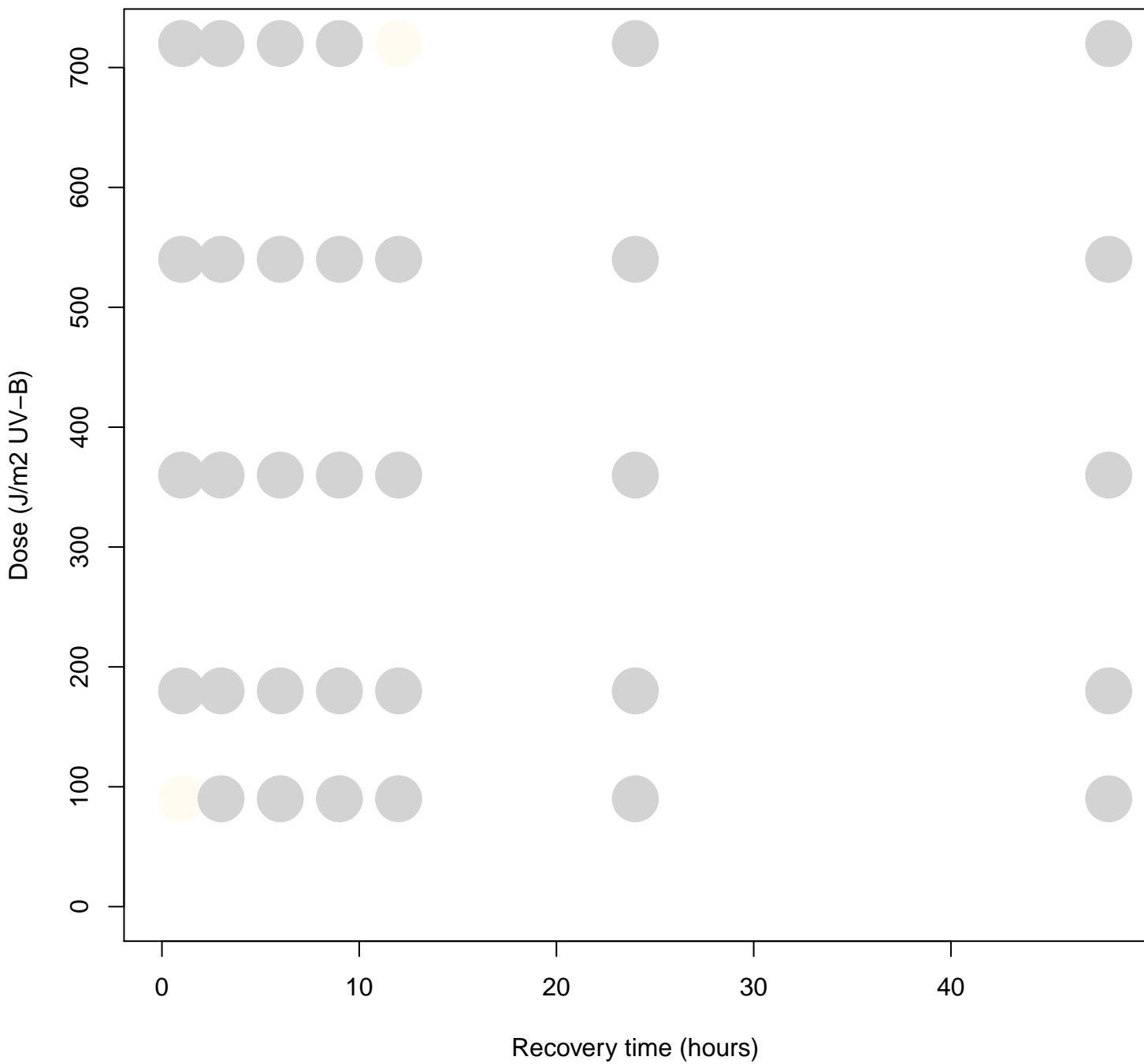




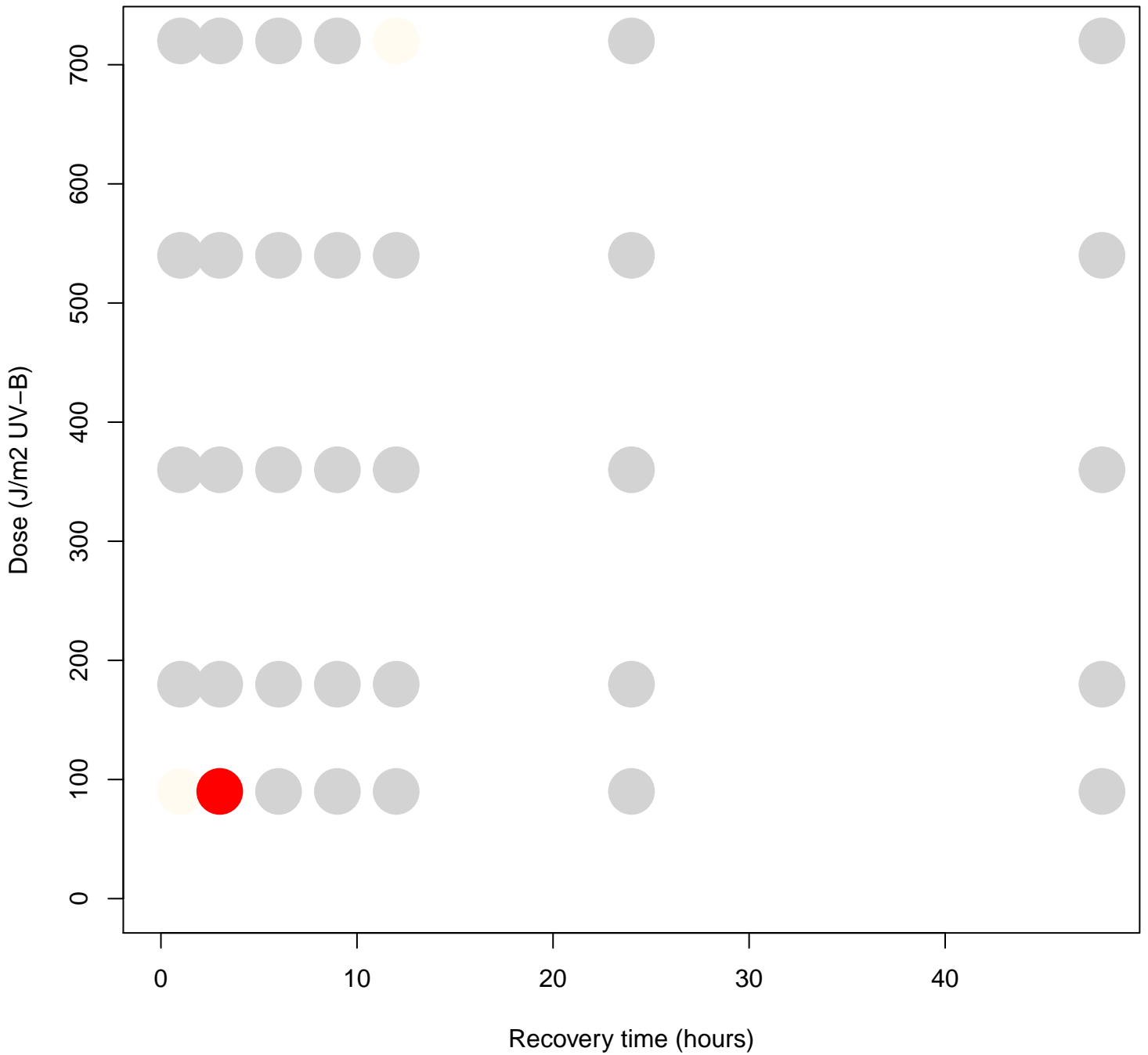
Wei\_S4\_process\_unknown\_GST\_no\_growth\_FDR



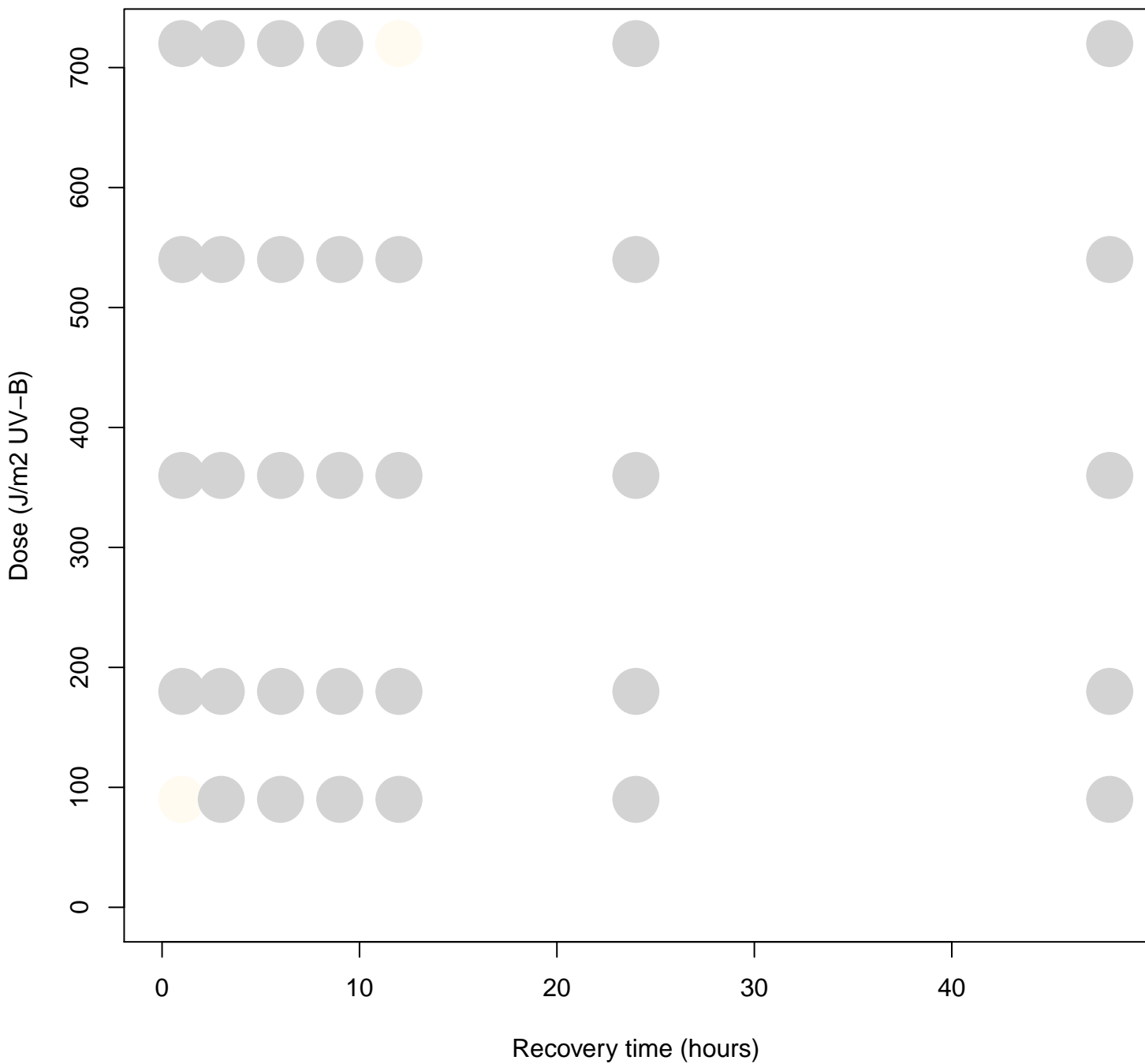
# Wei\_s4\_Proliferation\_GST\_no\_growth\_FDR



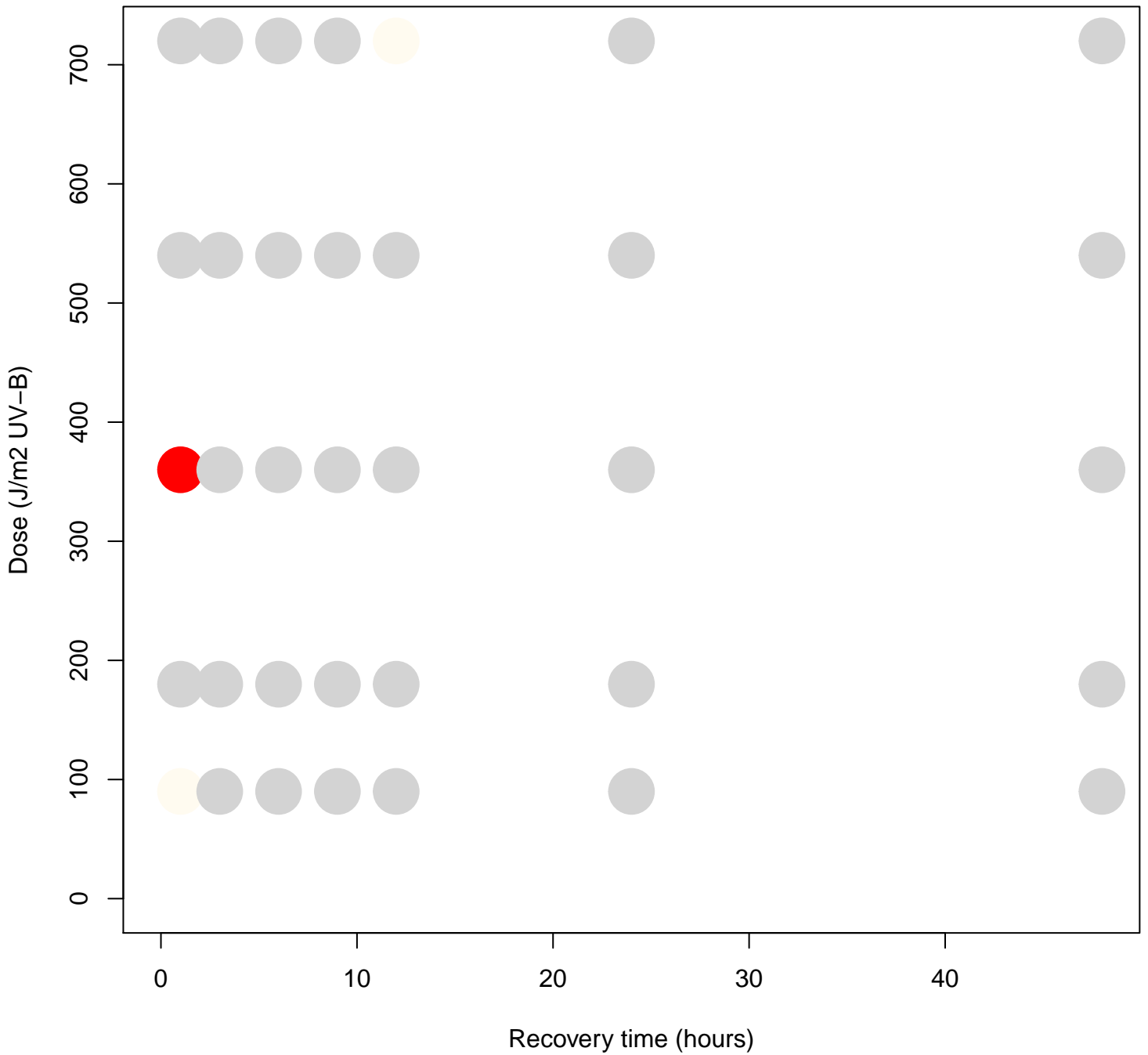
Wei\_S4\_transcriptie\_GST\_no\_growth\_FDR



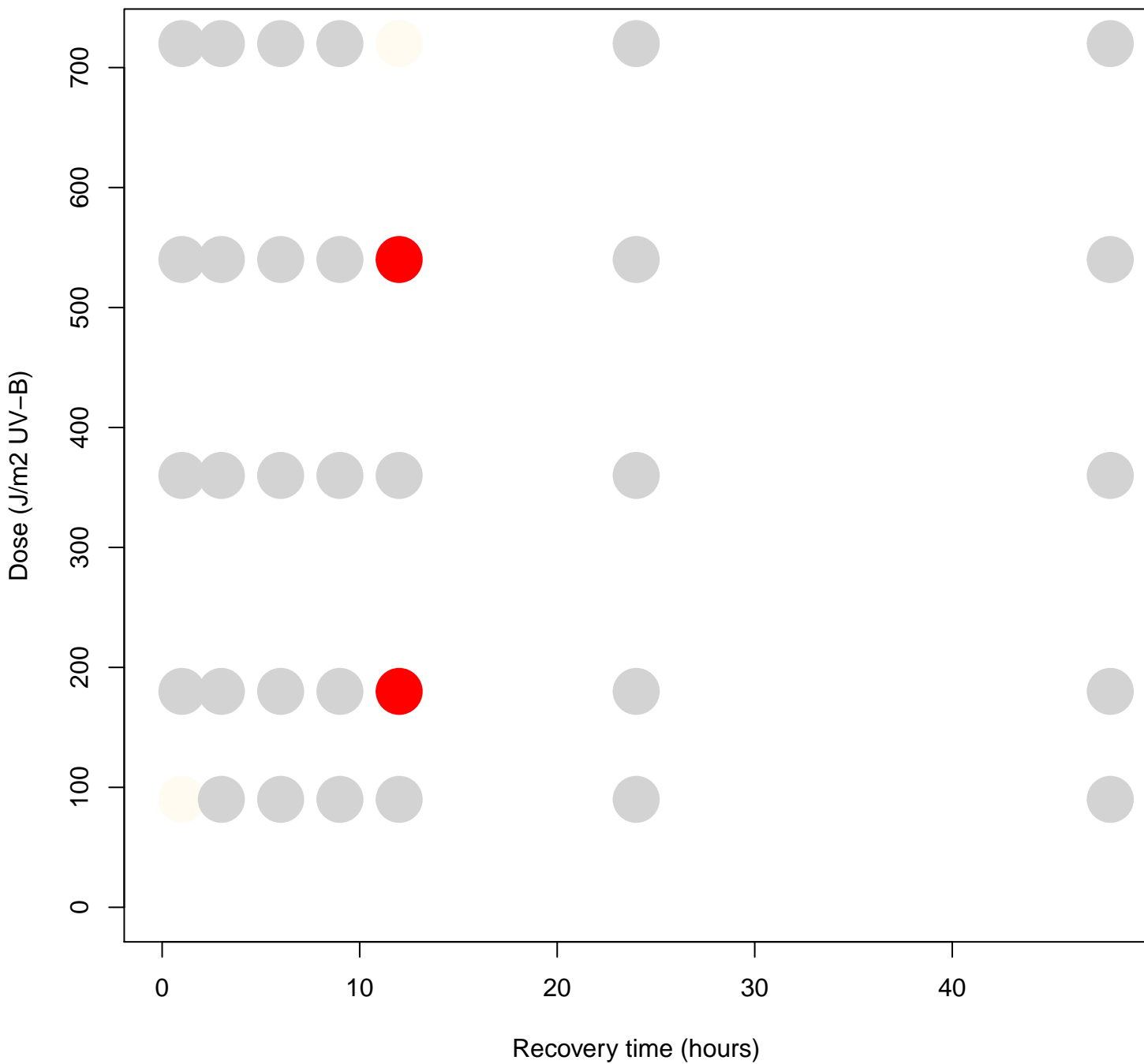
# WEI\_Signal\_Transduction\_GST\_no\_growth\_FDR



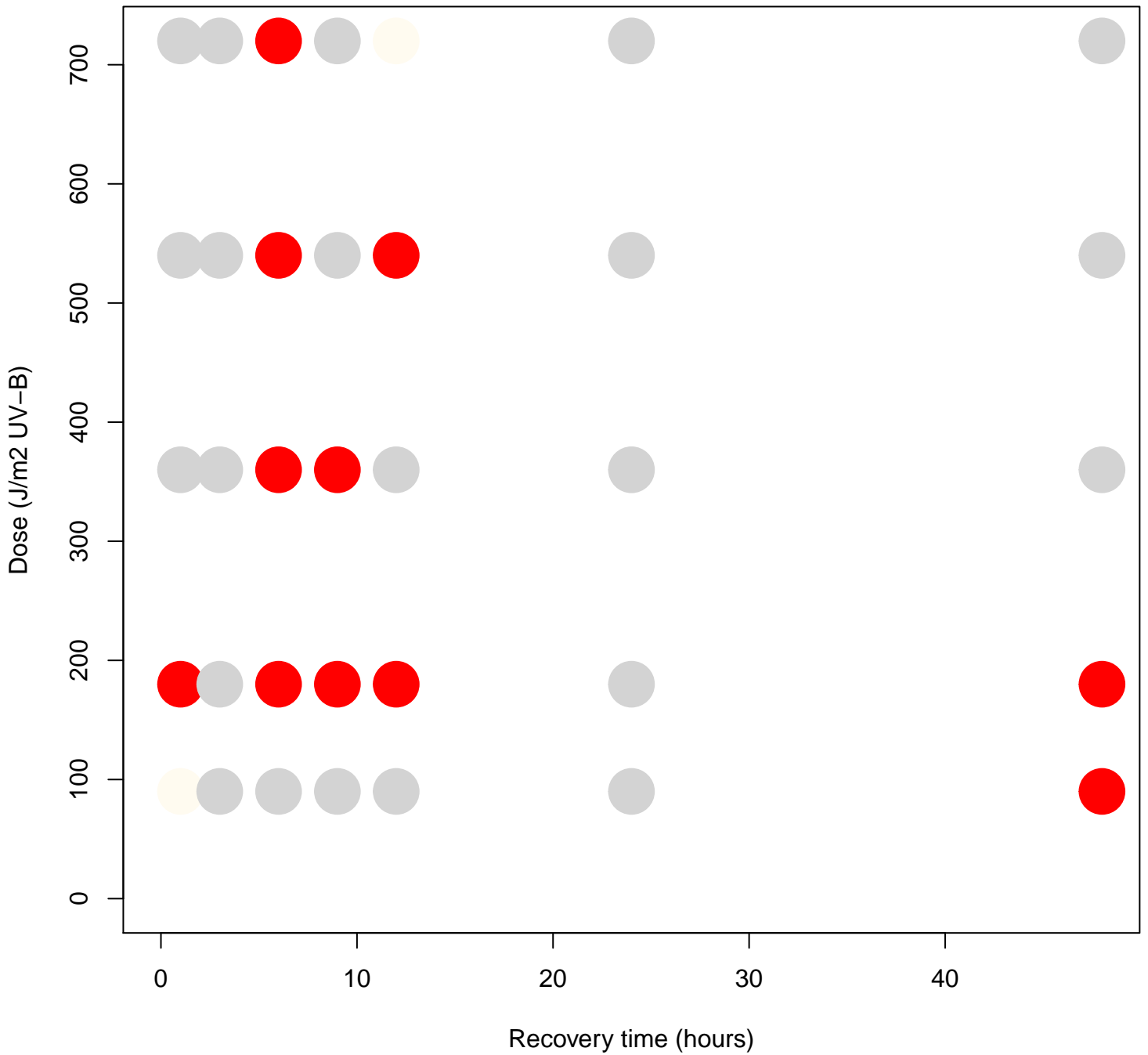
# WEI\_Transcription\_Regulation\_GST\_no\_growth\_FDR



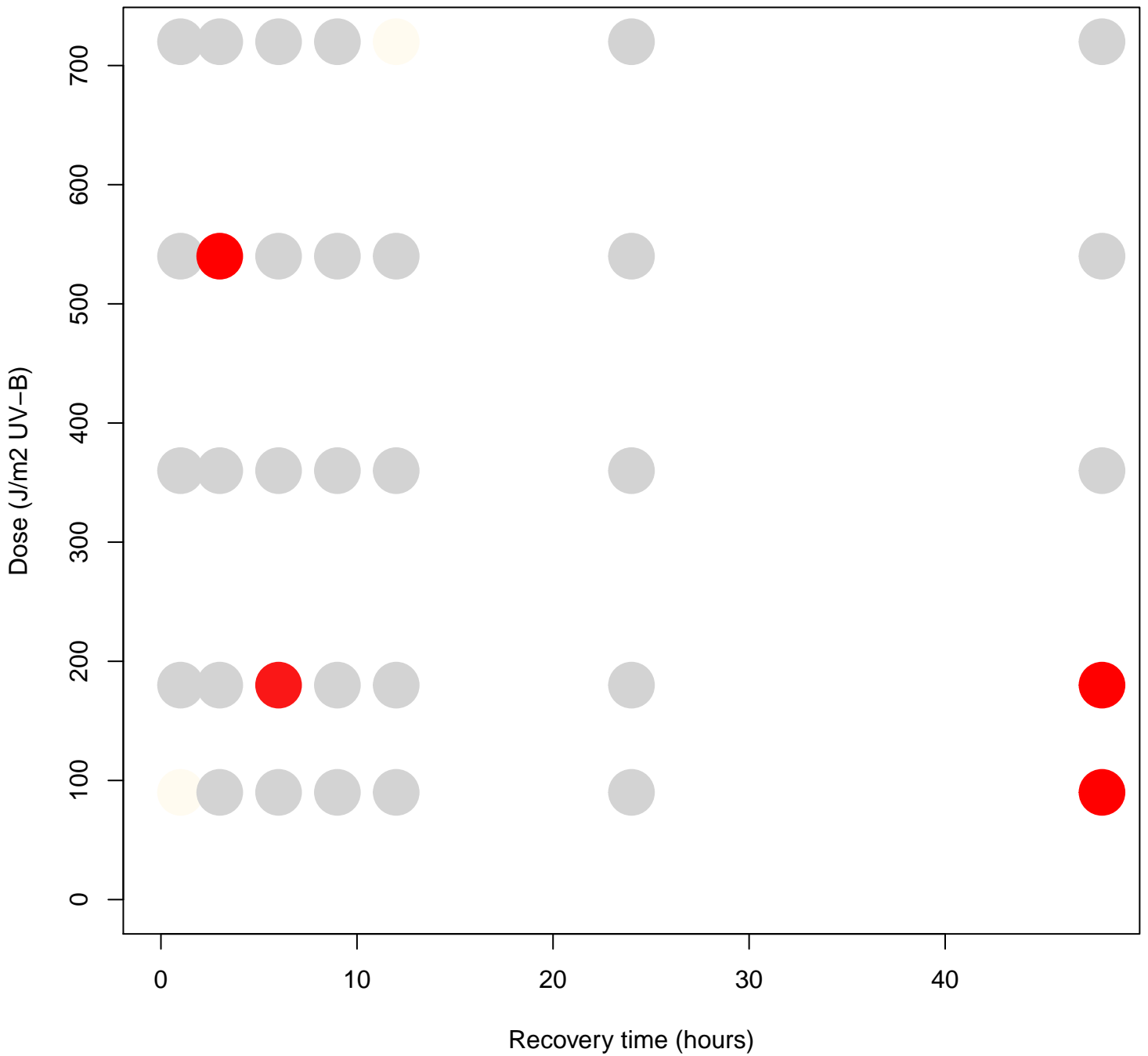
# WEI\_Transport\_and\_Ion\_Channel\_GST\_no\_growth\_FDR



WEI\_Unknown\_GST\_no\_growth\_FDR

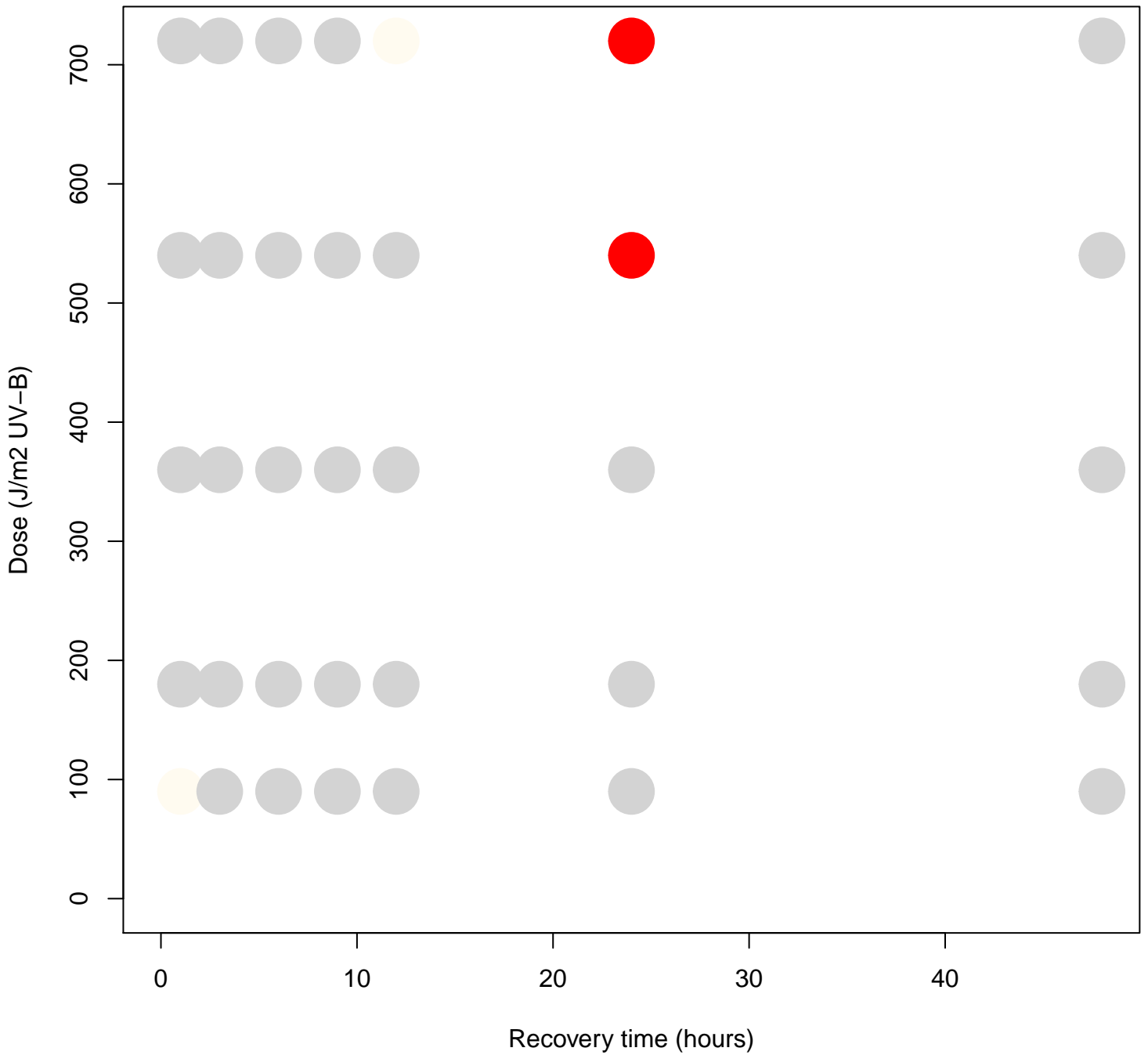


# WR\_anti.survival\_GST\_no\_growth\_FDR

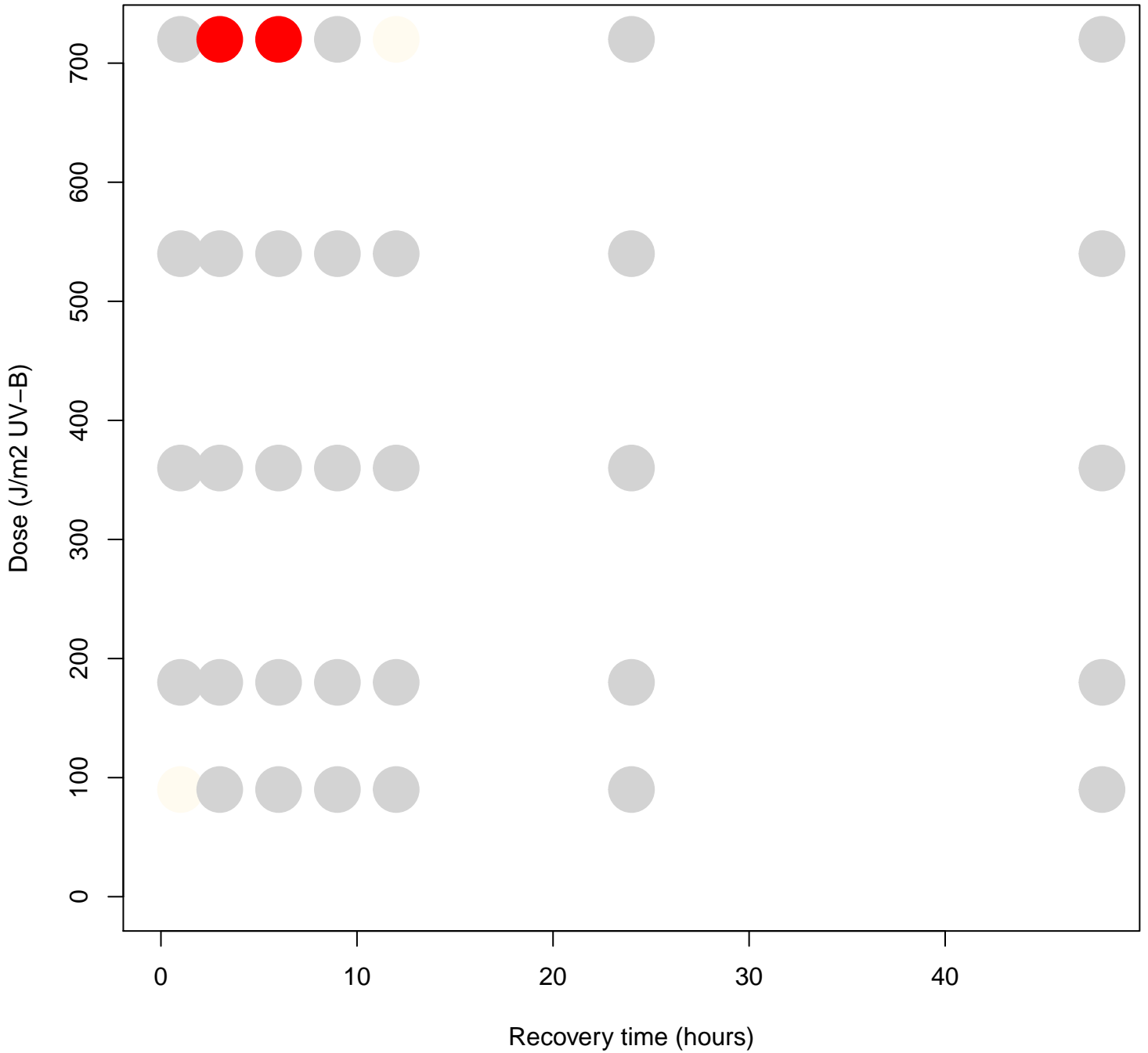




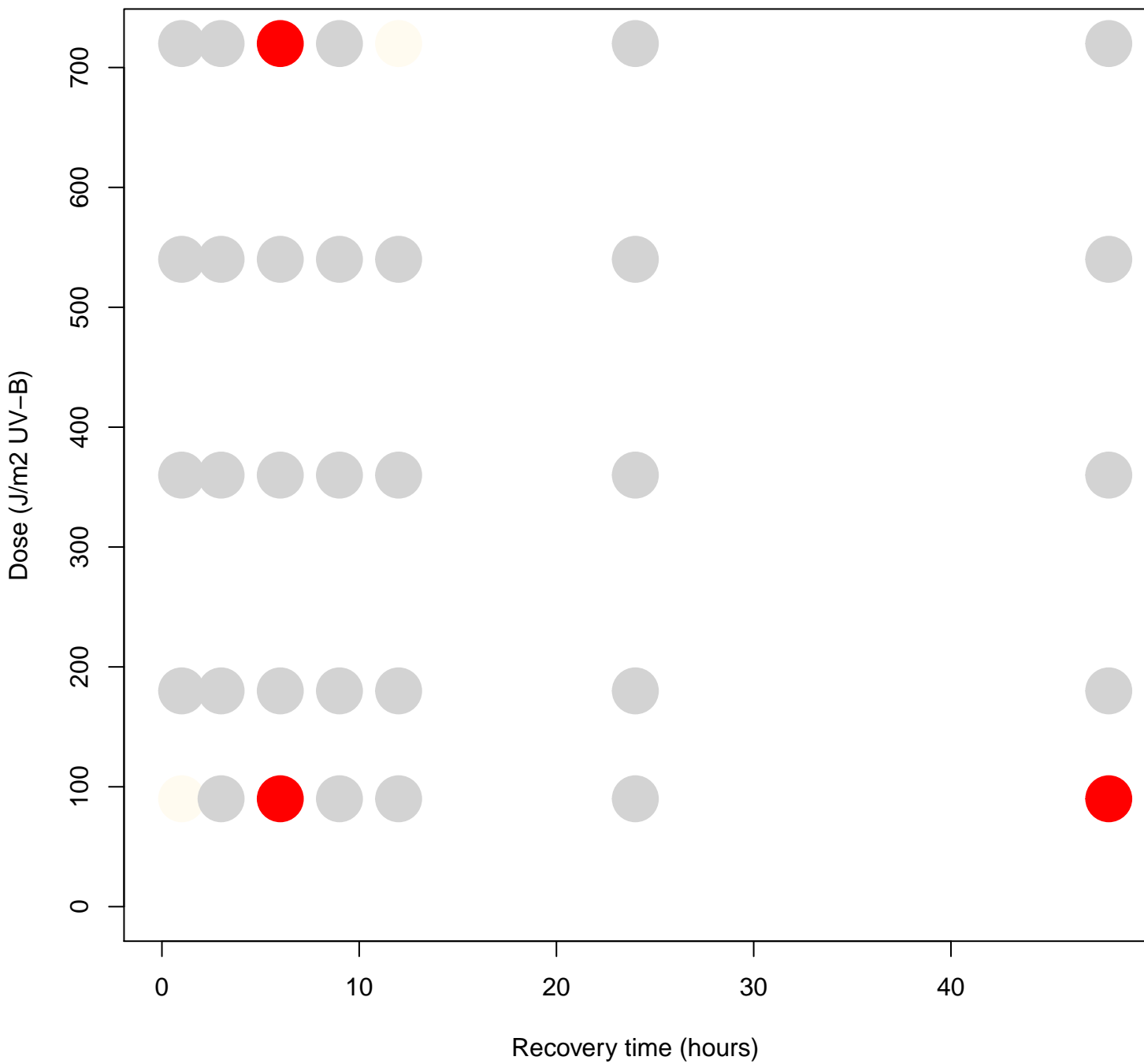
# WR\_Apoptosis\_GST\_no\_growth\_FDR



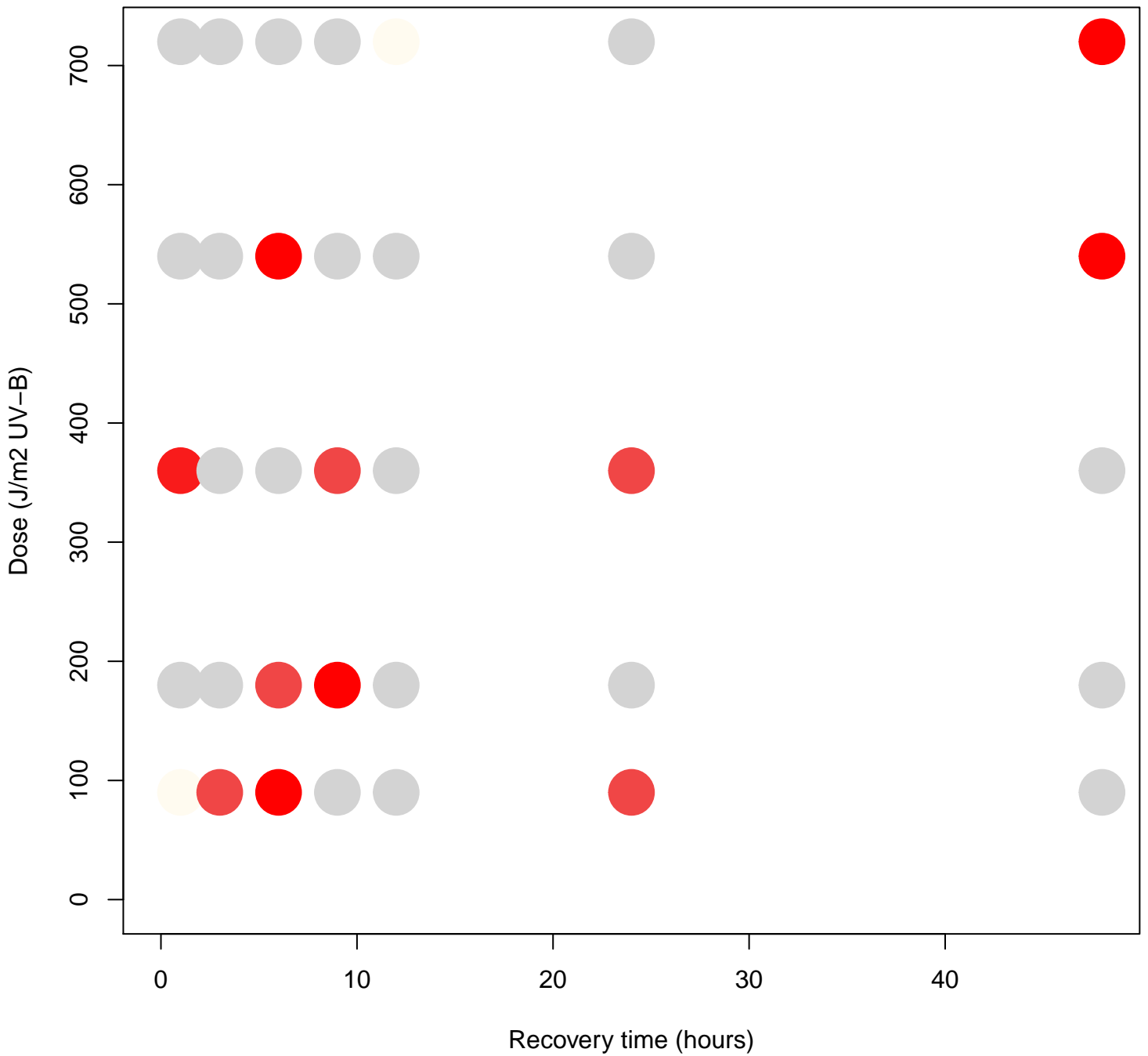
# WR\_Cell\_cycle\_arrest\_GST\_no\_growth\_FDR



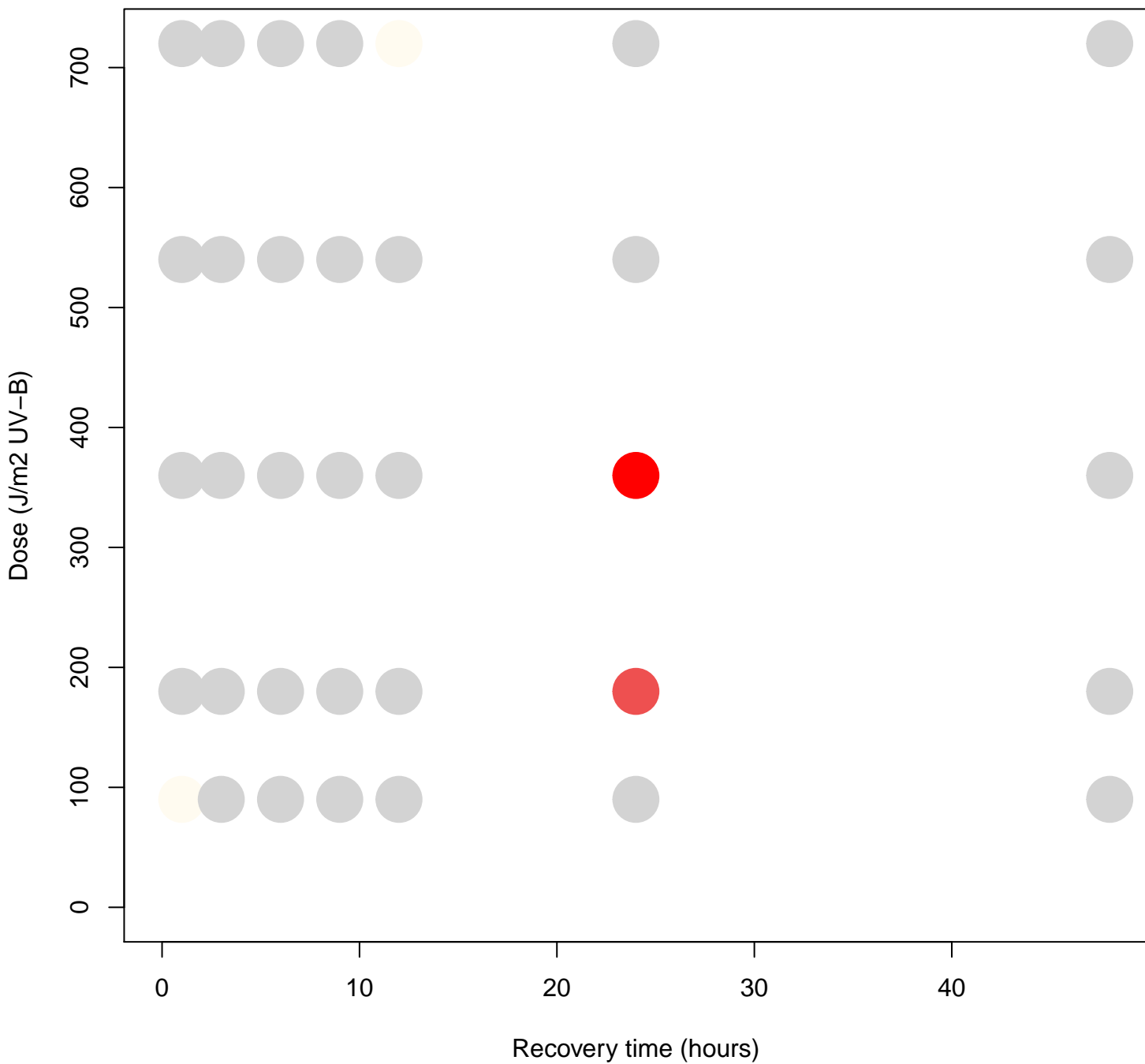
# WR\_DNA\_repair\_GST\_no\_growth\_FDR



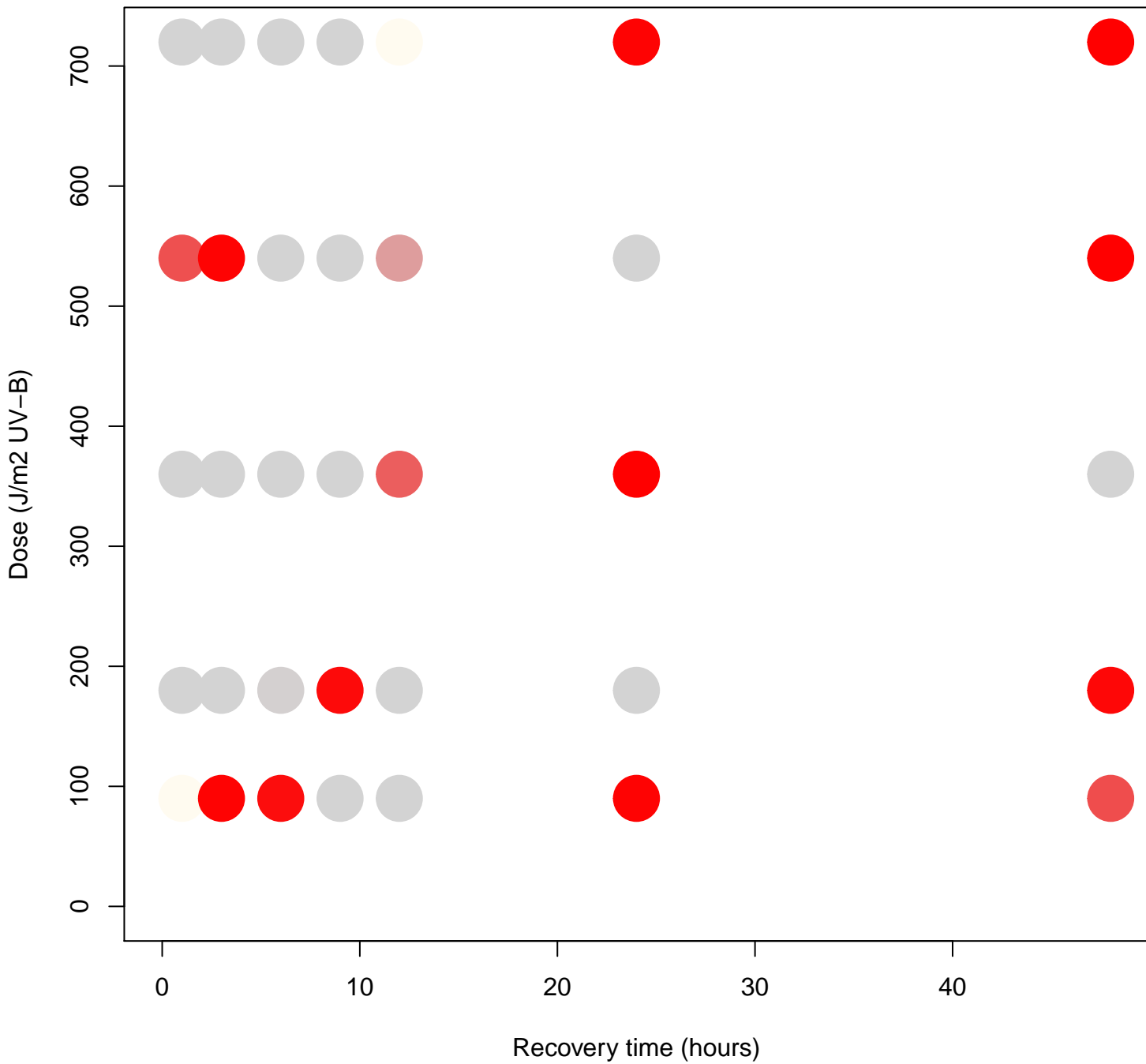
# X3410\_base\_excision\_repair\_GST\_no\_growth\_FDR



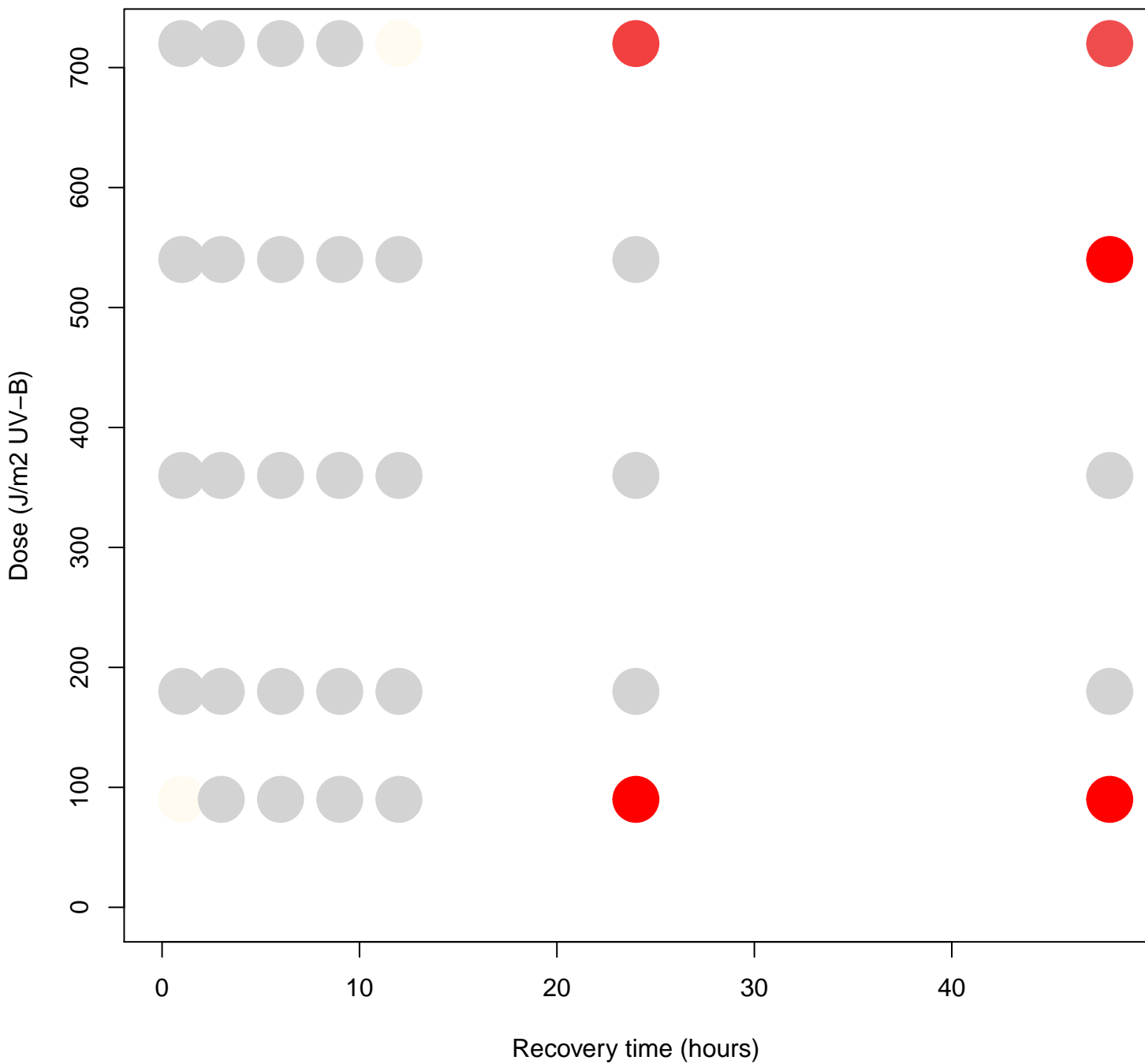
# X3430\_Mismatch\_repair\_GST\_no\_growth\_FDR



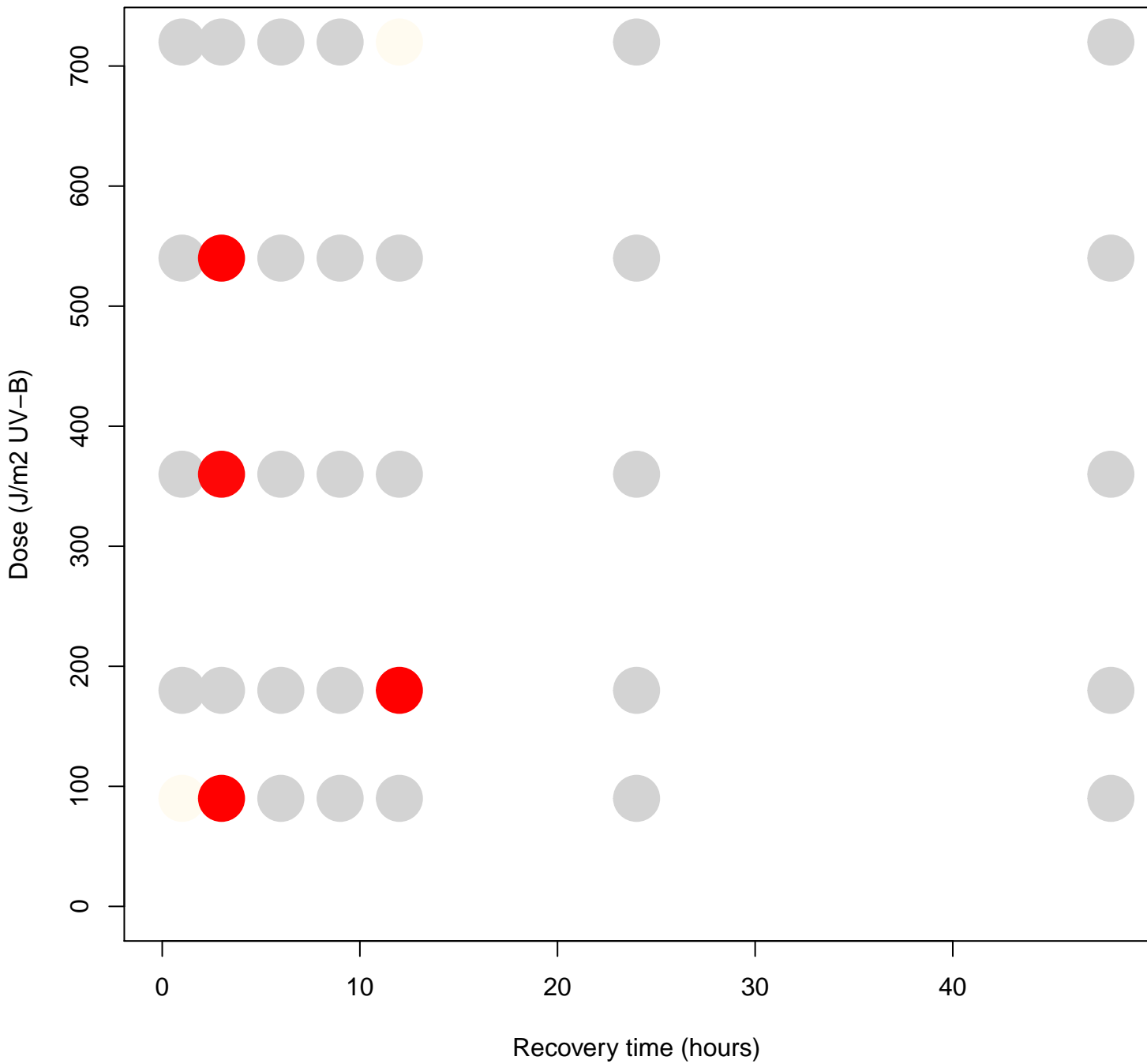
# X4110\_cell\_cycle\_GST\_no\_growth\_FDR



# X4115\_p53\_signaling\_pathway\_GST\_no\_growth\_FDR



# X4210\_extrinsic\_apoptosis\_GST\_no\_growth\_FDR





# X4210\_intrinsic\_apoptosis\_GST\_no\_growth\_FDR

