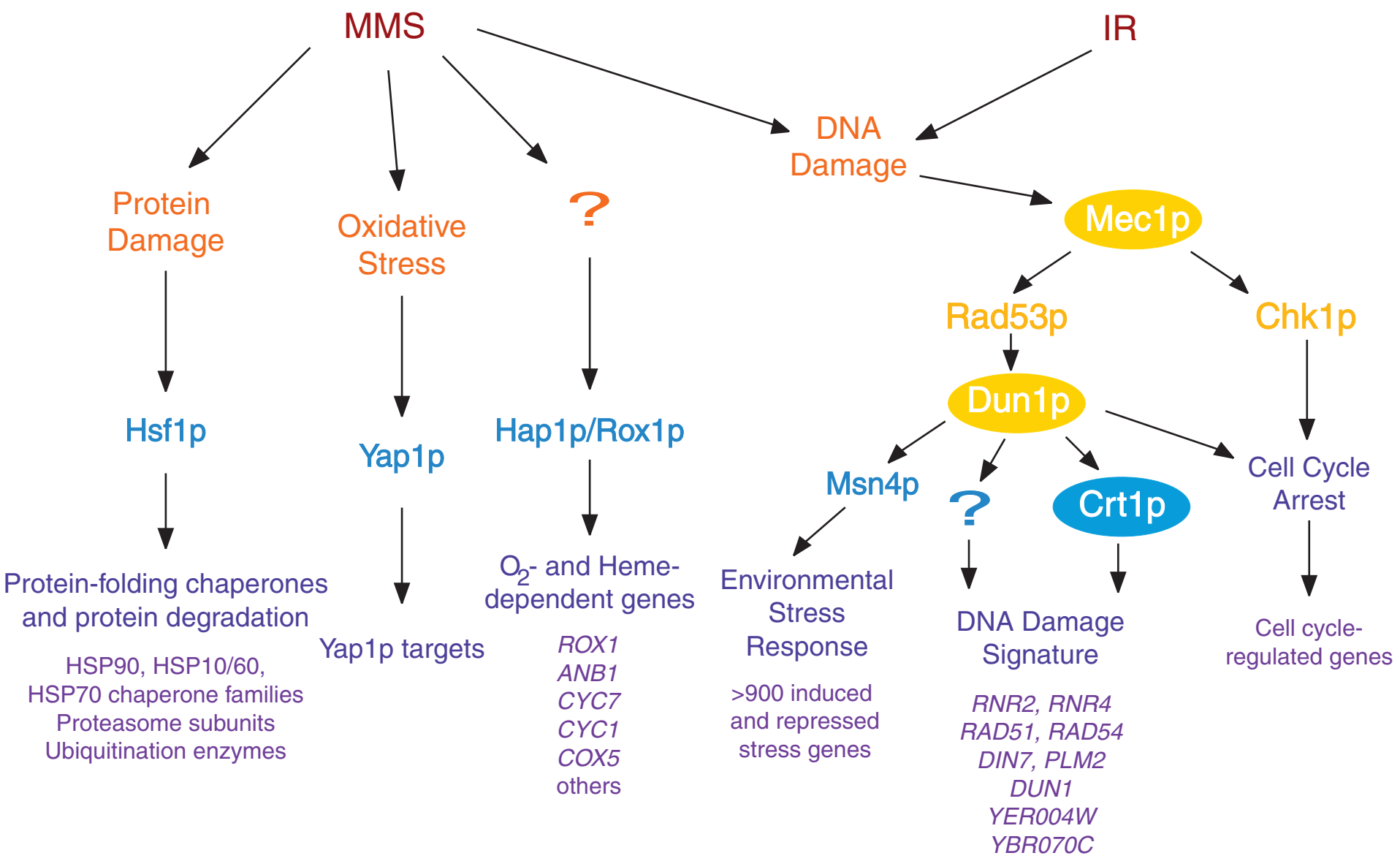
Figure 9.


MMS
IR
DNA Damage
Protein Damage
Oxidative Stress
?
Mec1p
Rad53p
Chk1p
Dun1p
Hsf1p
Yap1p
Hap1p/Rox1p
Msn4p
?
Crt1p
Cell Cycle Arrest
Protein-folding chaperones and protein degradation
HSP90, HSP10/60, HSP70 chaperone families
Proteasome subunits
Ubiquitination enzymes
Yap1p targets
O_2- and Heme-dependent genes
ROX1
ANB1
CYC7
CYC1
COX5
others
Environmental Stress Response
>900 induced and repressed stress genes
DNA Damage Signature
RNR2, RNR4
RAD51, RAD54
DIN7, PLM2
DUN1
YER004W
YBR070C
Cell cycle-regulated genes