

**Environmental Stressor**  
(e.g. Heat, ROS)



**Protein Homeostasis**  
(e.g. DNA Pol- $\eta$ , Histones  
PPAR $\alpha/\beta$ , SmyD)

**Transcriptional Regulation of TEs**  
(e.g. DNA Repair, Chromosome Stability,  
Methylation, Histone modification)

**Hsp90**

**PIWI/piRNA loading**

**Post-transcriptional  
Regulation of TEs**  
(RNAi)

