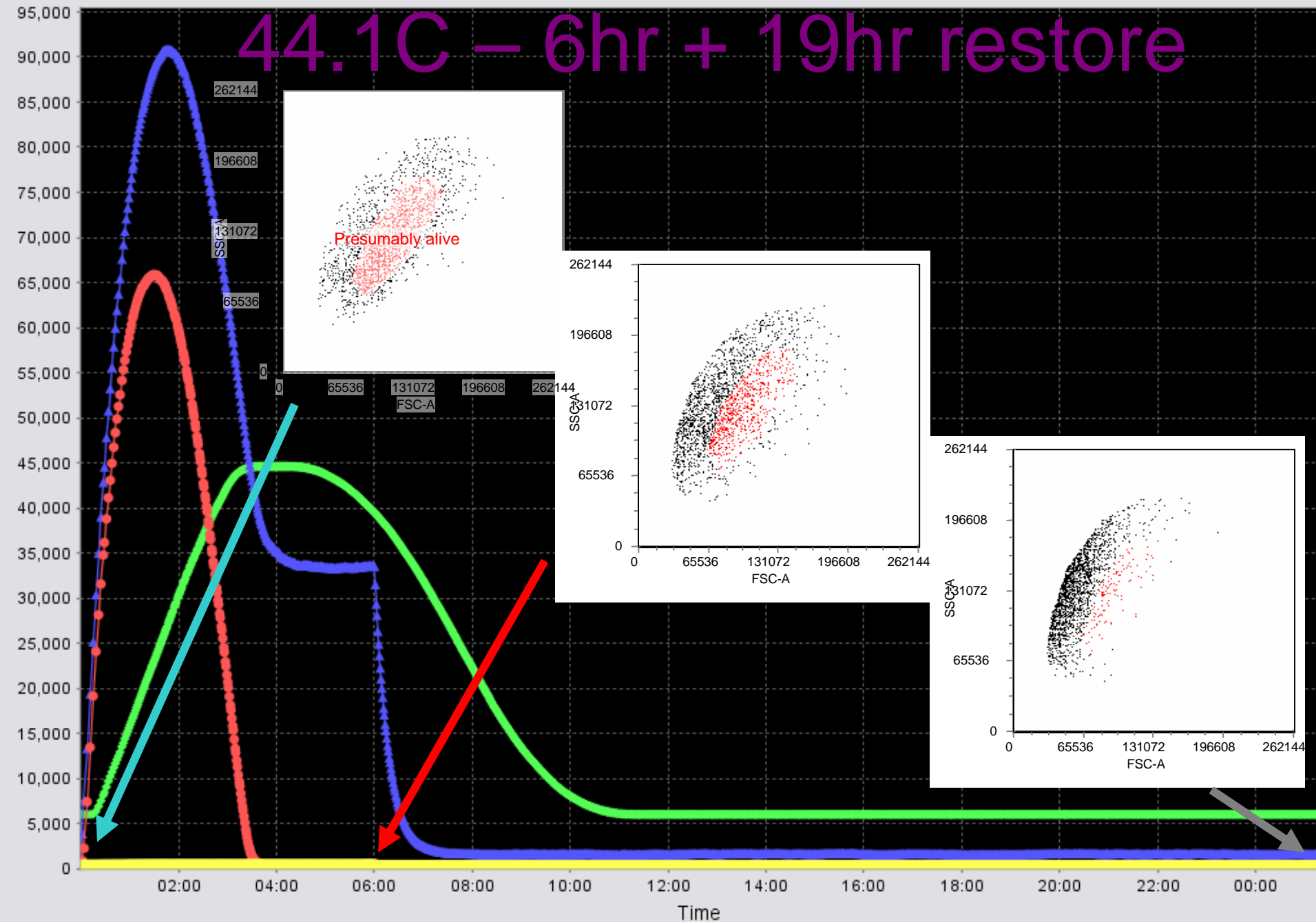


Realities to face

- Life is only possible within its limits
- Life units (cells, organisms) are not equal.
 - **“All animals are equal, but some animals are more equal than others”** from Animal Farm, by George Orwell

44.1C – 6hr + 19hr restore



Temp*10 Free MFP Total MFP Total HSP HSF trimers HSF3:HSE

Mechanisms of Cell Death



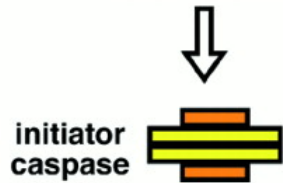
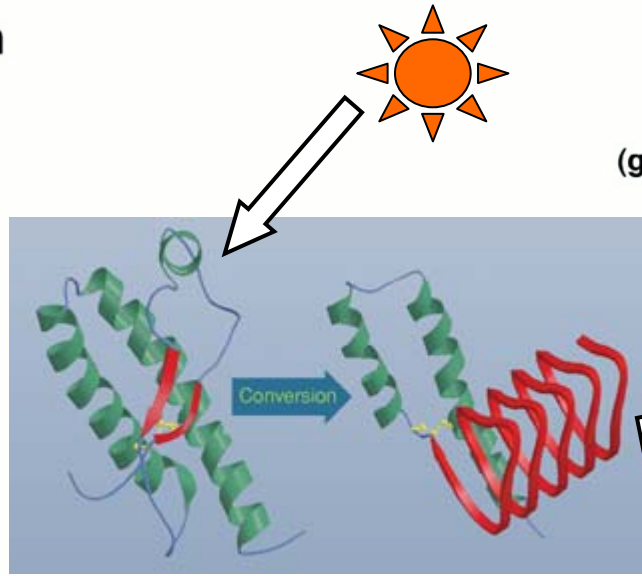
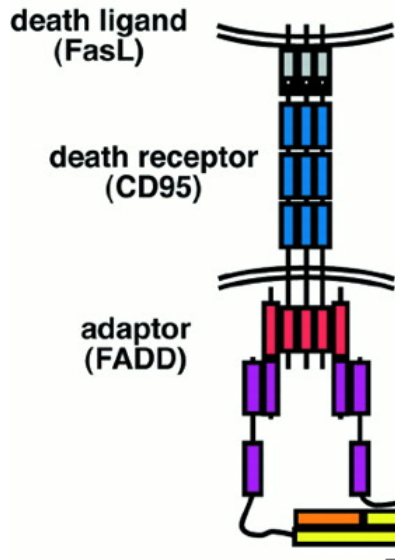
Apoptosis



Necrosis

Apoptosis Signaling

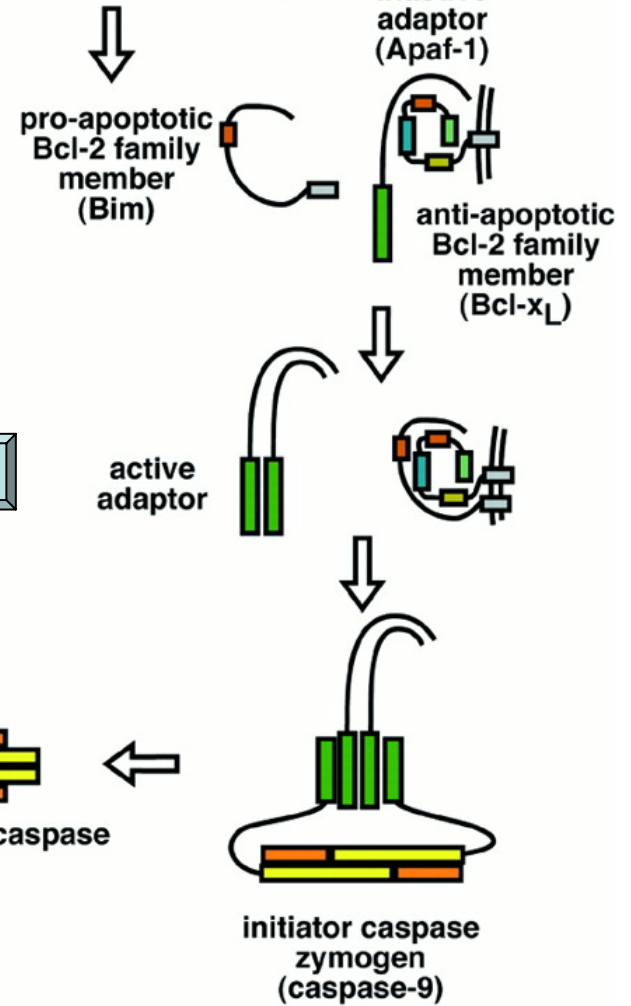
Death by design

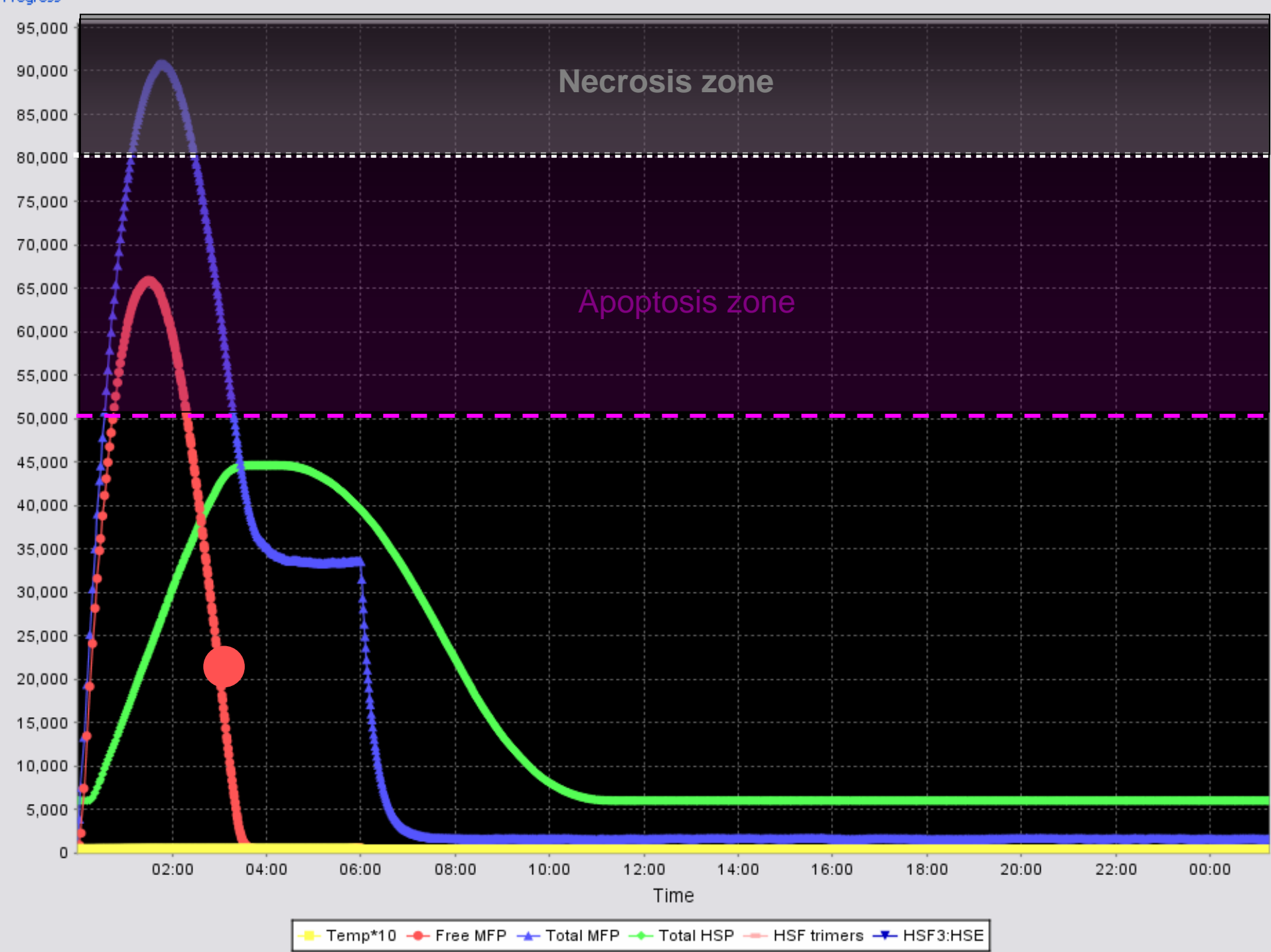


apoptosis

Death by neglect

apoptotic stimulus (growth factor withdrawal)





Event inevitable

- To prepare
- To minimize consequences
- Sport medicine
- Military medicine

Event happened

- To calculate consequences
- To predict compensational approaches
- To evaluate strategies (worthy or not)
- Emergency
- Intensive care

Economical death

- Minimal treatment – maximal effect
- Sencibilization for other treatment (combined therapy)
- Cancer treatment
- Cosmetics
- Pest control

