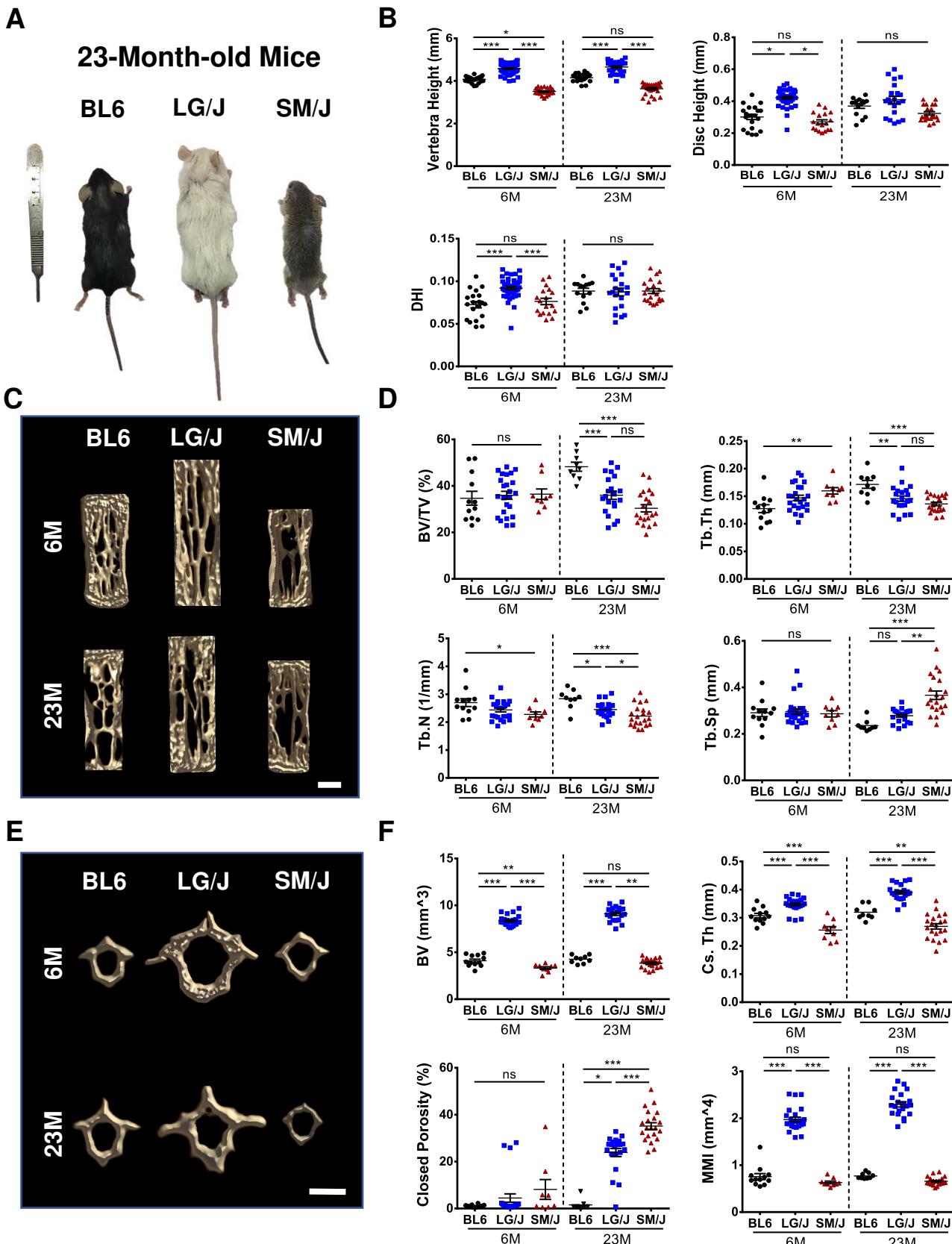


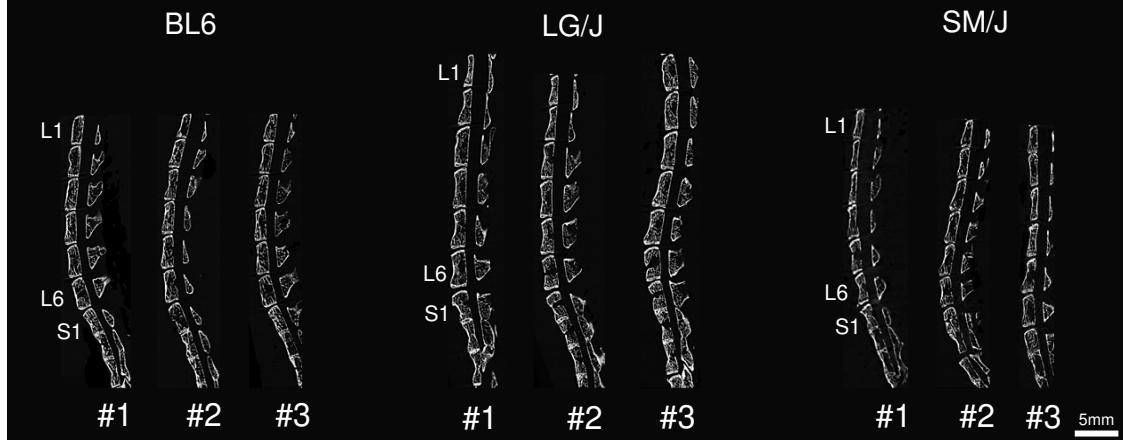
Supplementary Figure 1



Supplementary Figure 2

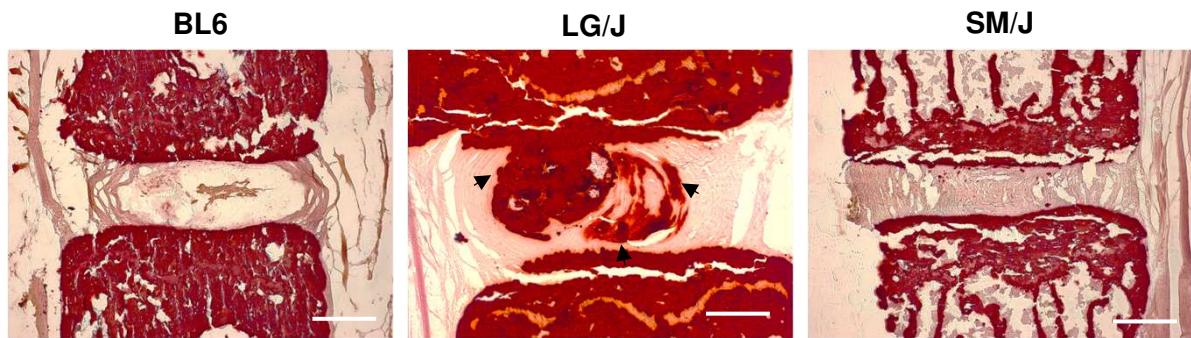
A

23M Lumbar Spine



B

23M Caudal Disc



Supplementary Figure 3

A

Modified Thompson Grading

NP Grading:

1. Aggrecan-rich bulging tissue
2. Peripheral fibrous tissue
3. Consolidated fibrous tissue
4. Horizontal clefts parallel to endplate
5. Clefts through NP and AF (herniation)

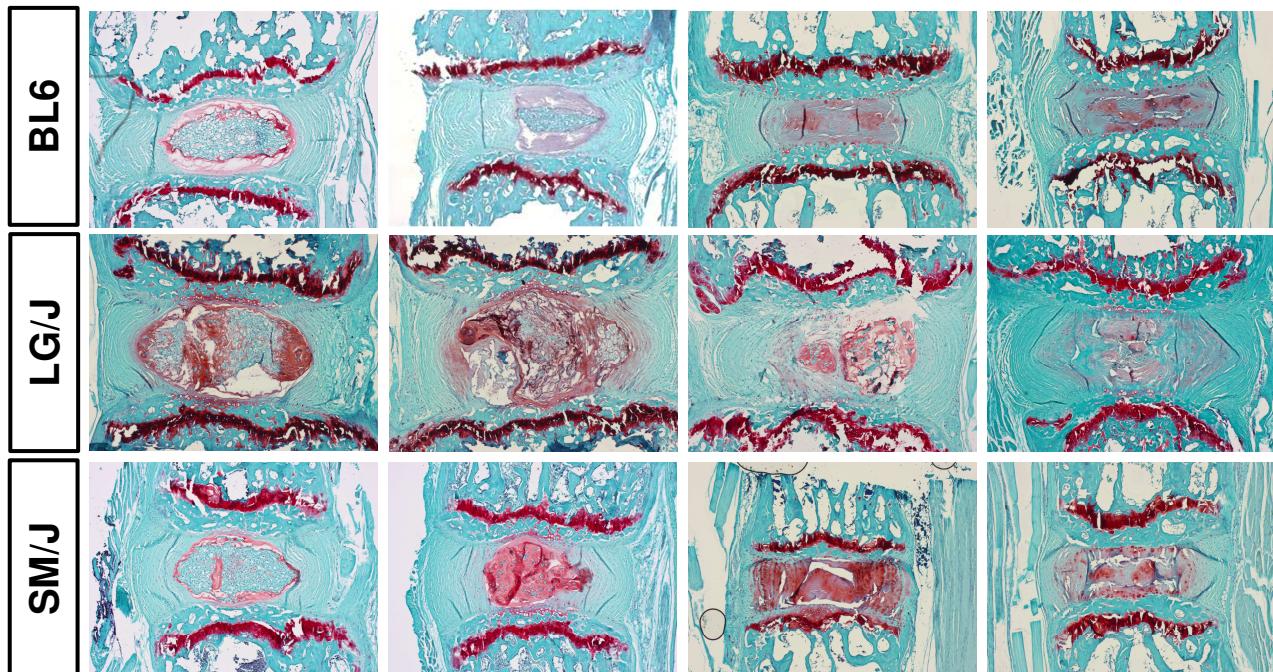
AF Grading:

1. Discrete fibrous lamellae
2. Mucinous material between lamellae
3. Extensive mucinous material and/or loss of NP-AF demarcation
4. Focal clefts
5. Clefts through NP and AF (herniation)

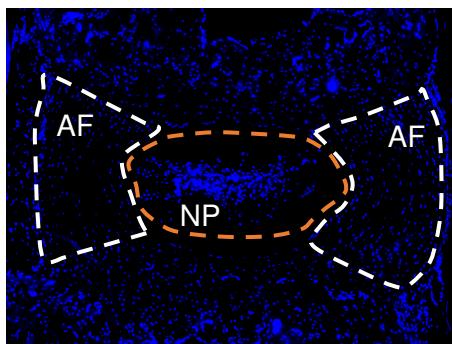
B

23 MONTH HISTOLOGY

IVD Degeneration

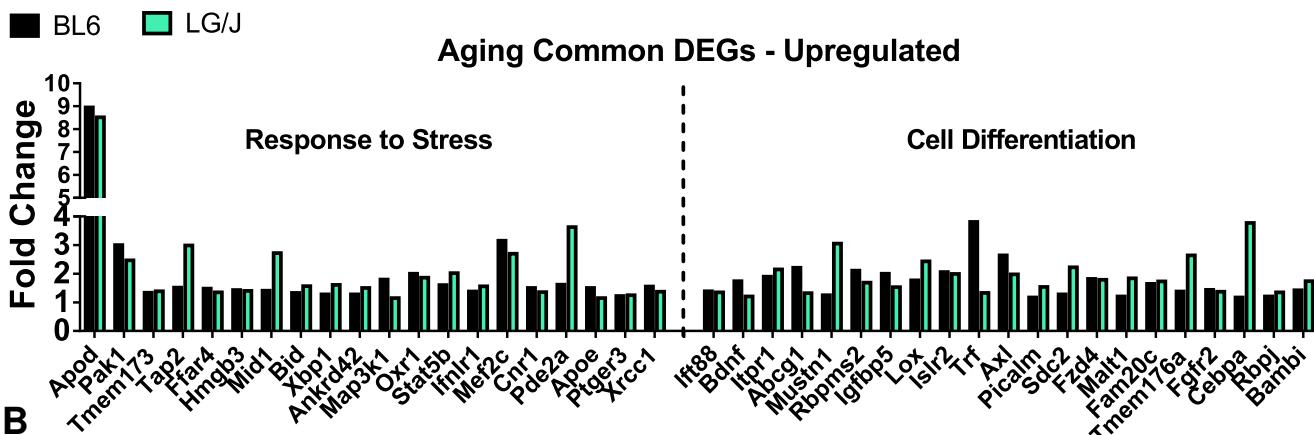


C

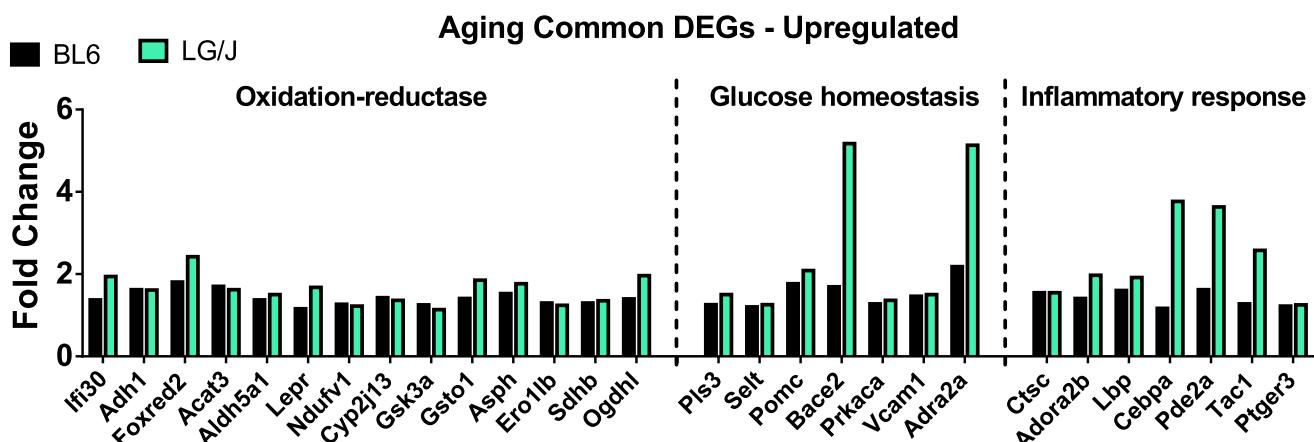


Supplementary Figure 4

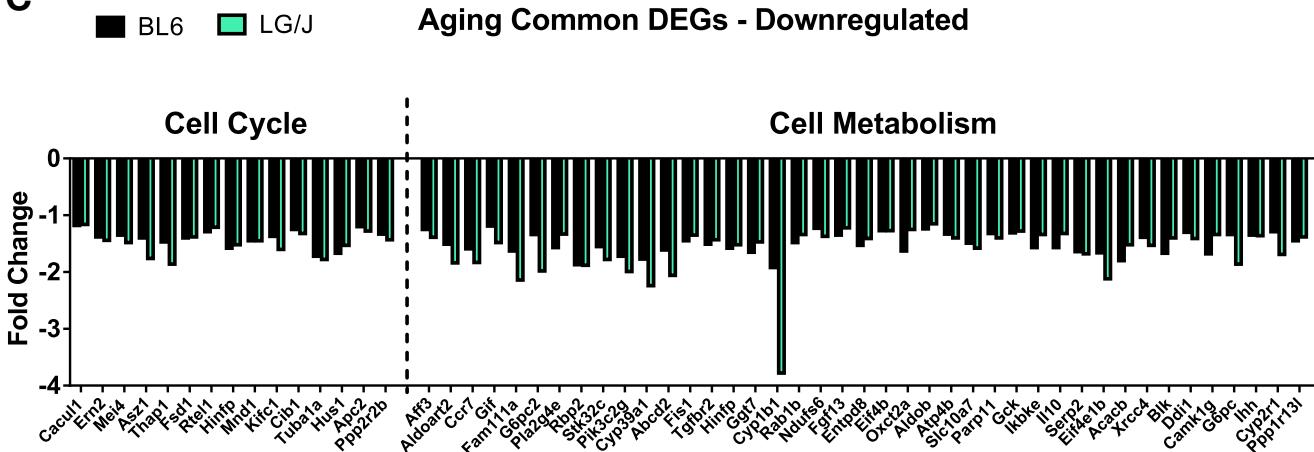
A



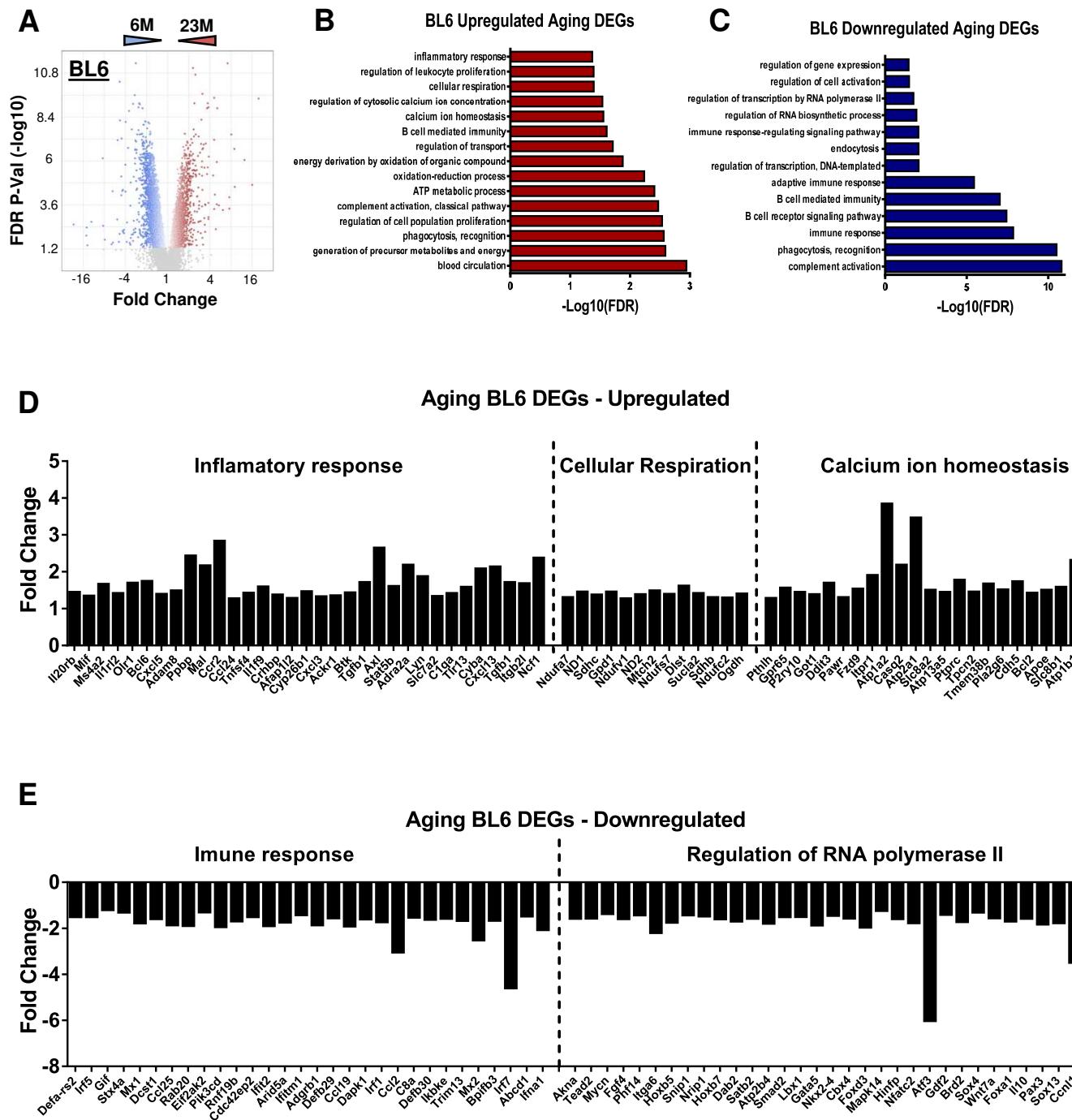
B



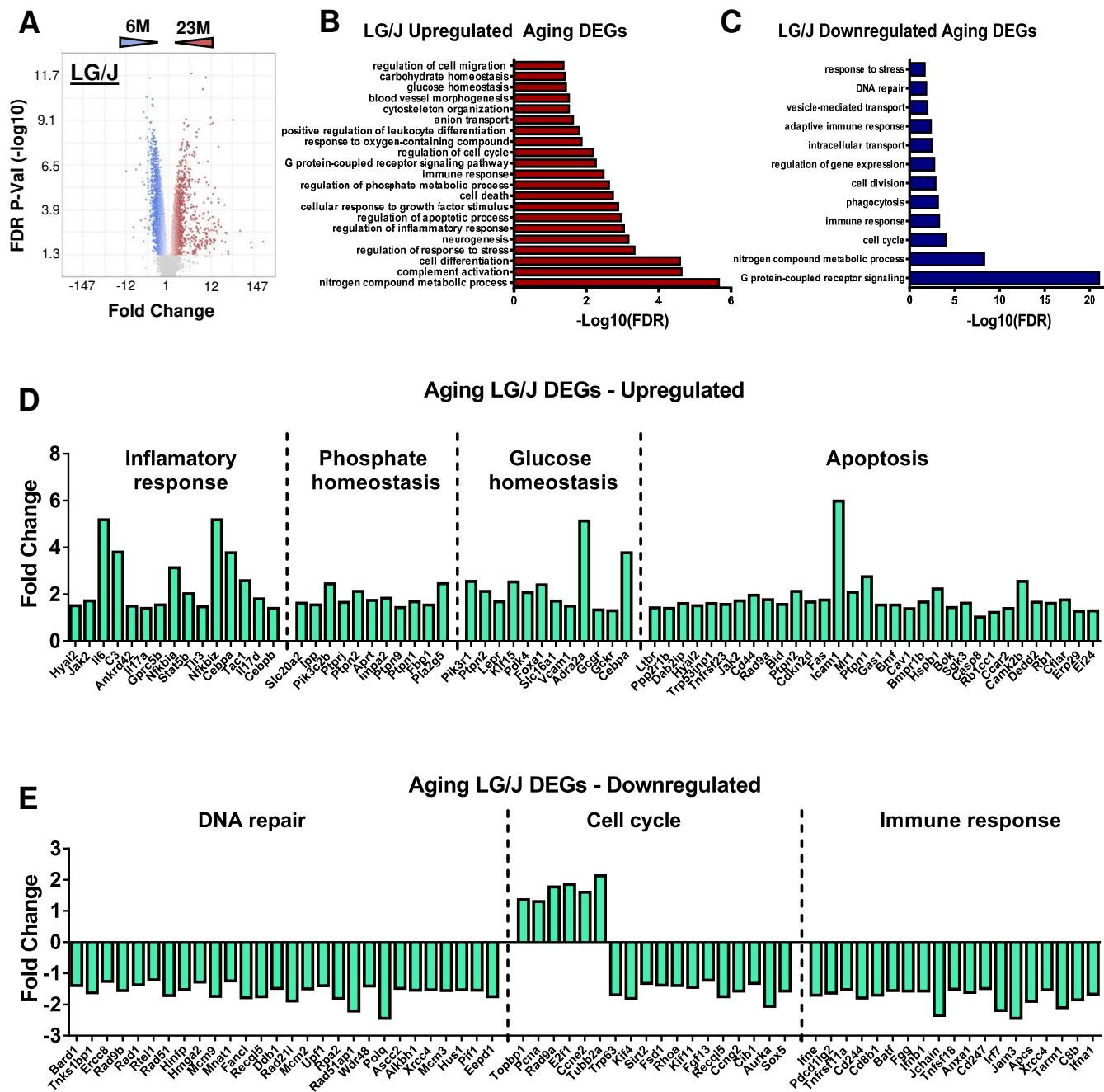
C



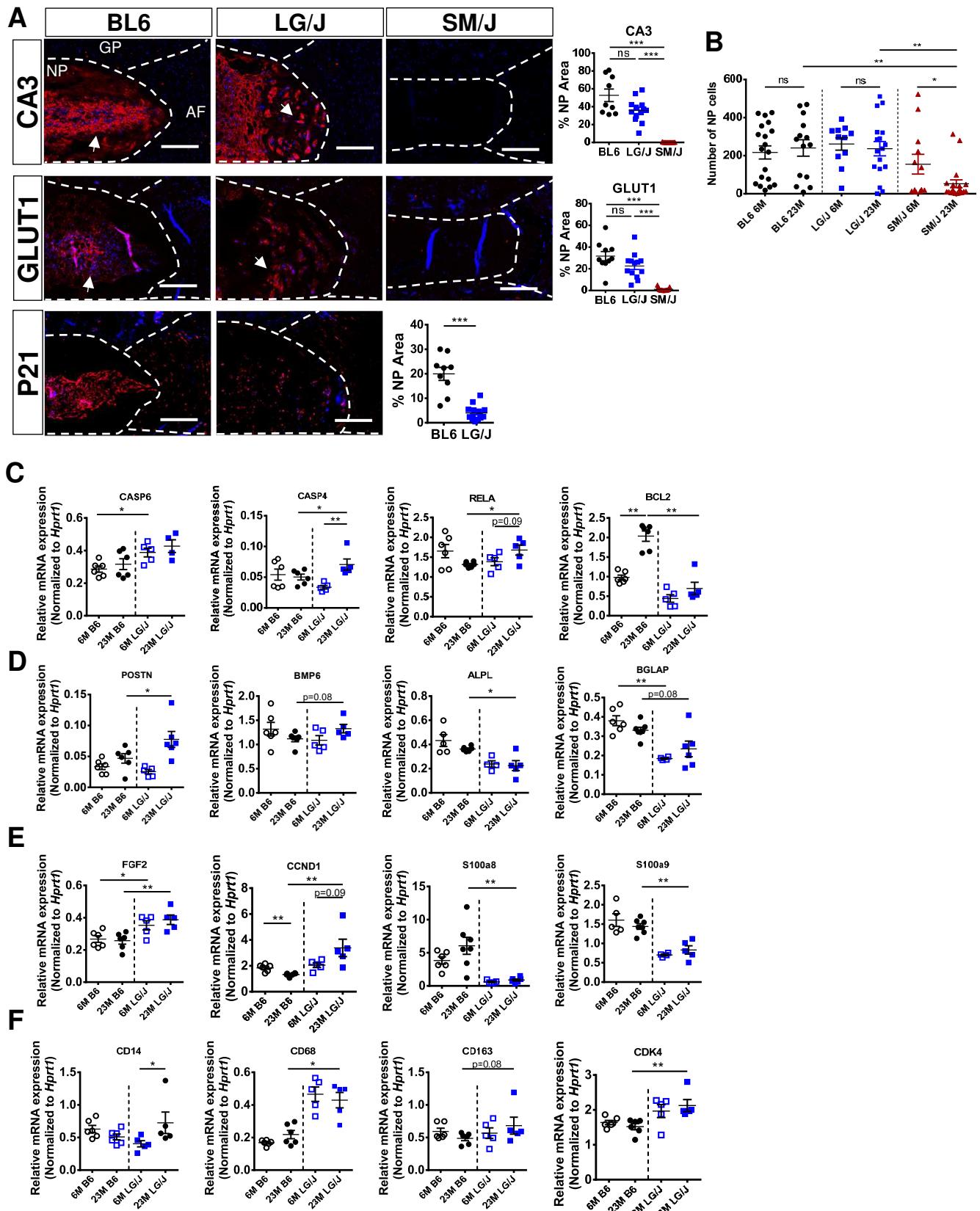
Supplementary Figure 5



Supplementary Figure 6



Supplementary Figure 7



Supplementary
Figure 8

