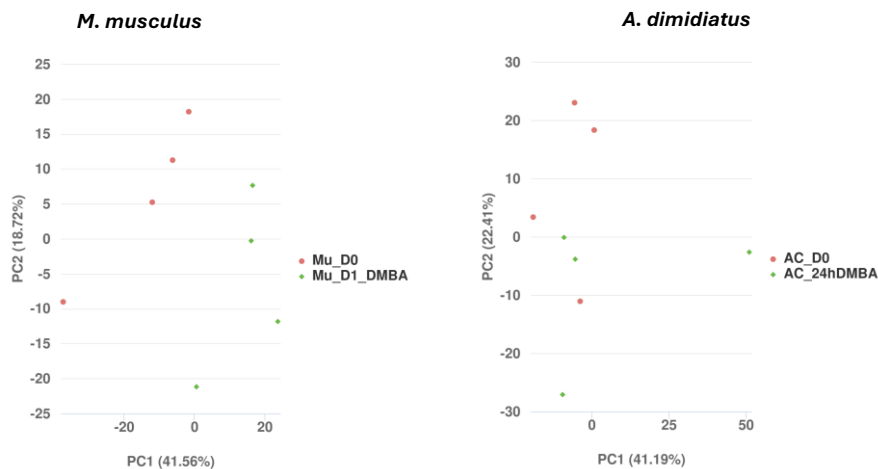


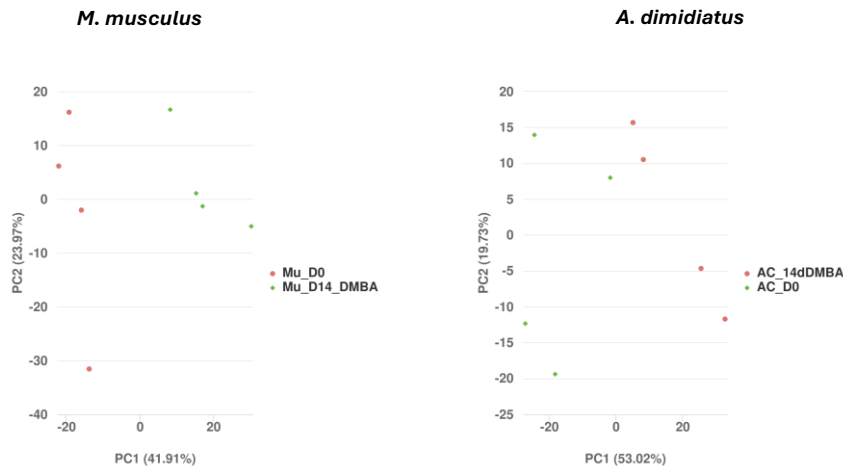
A

Day 1



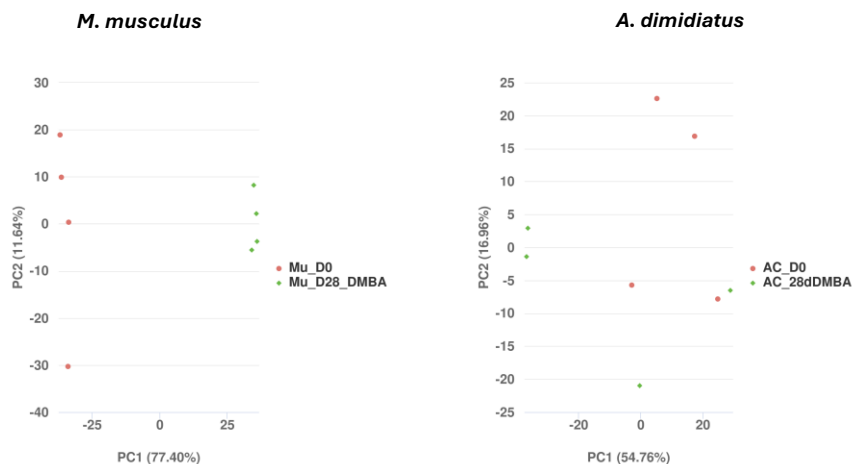
B

Day 14

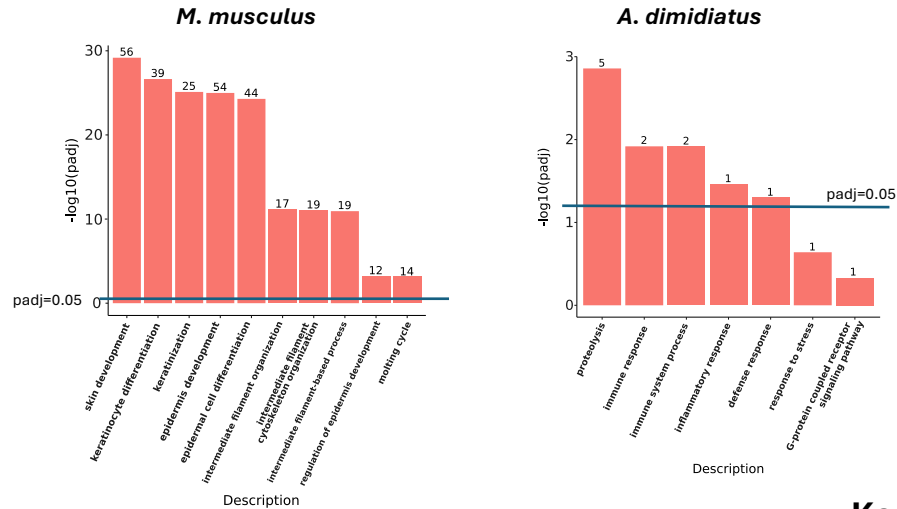
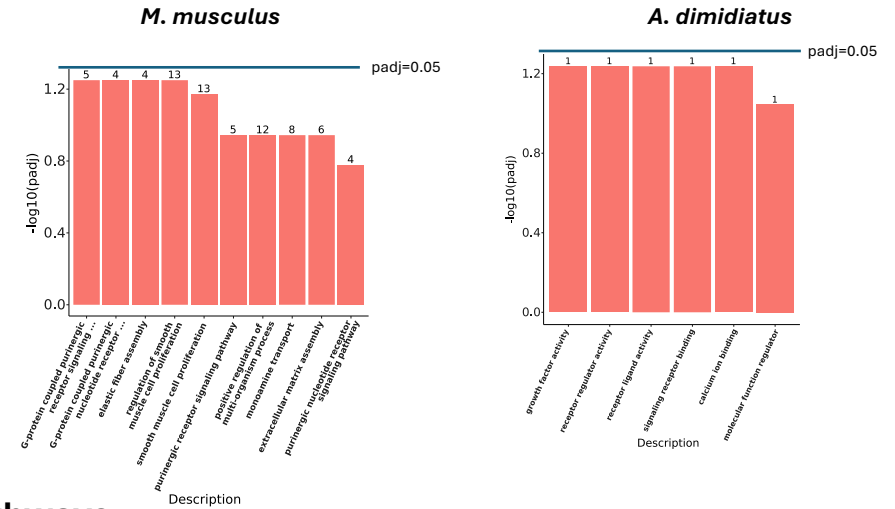
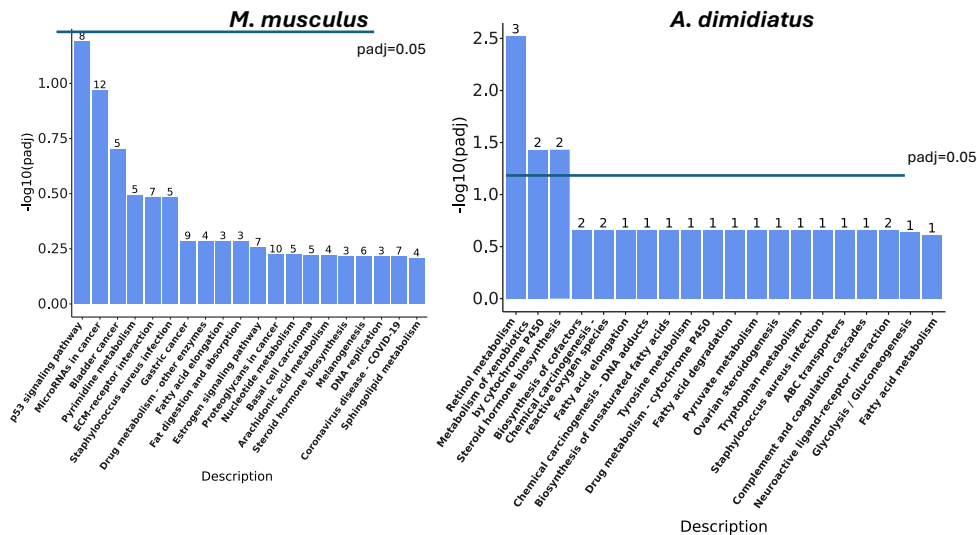
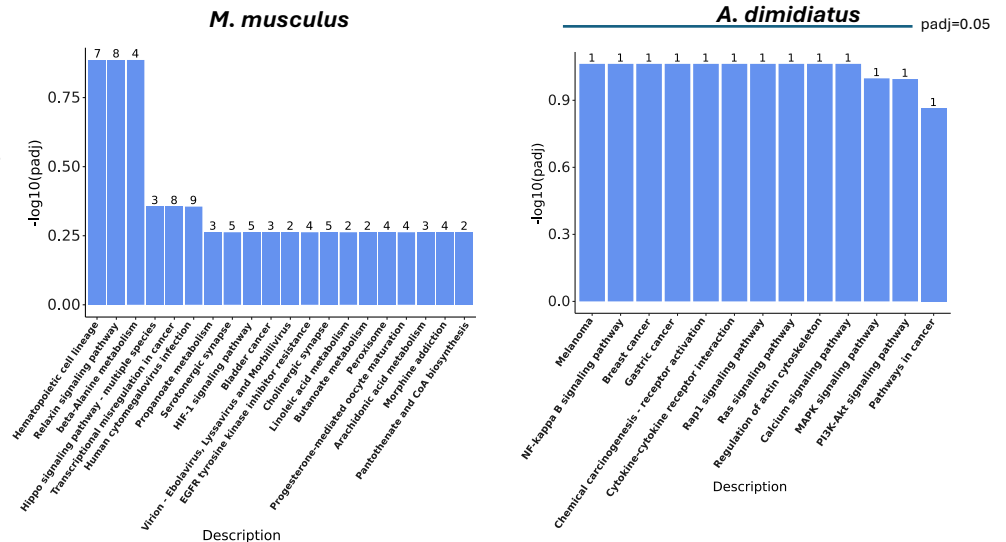


C

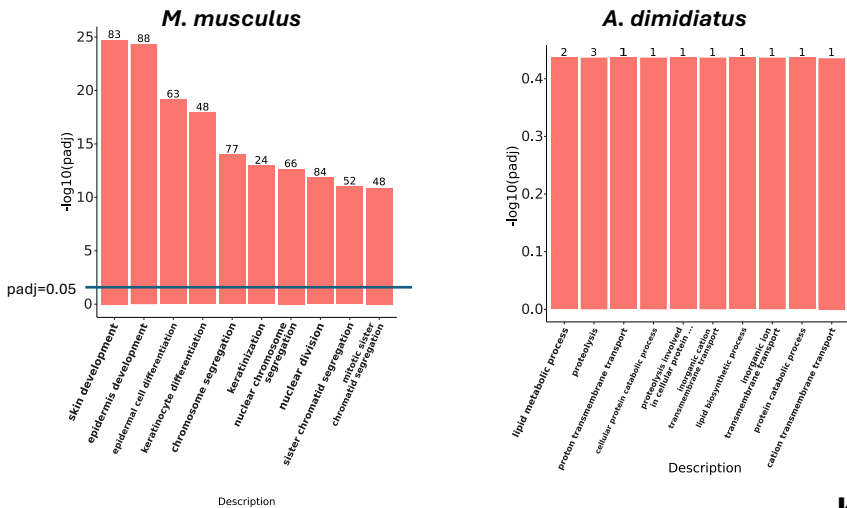
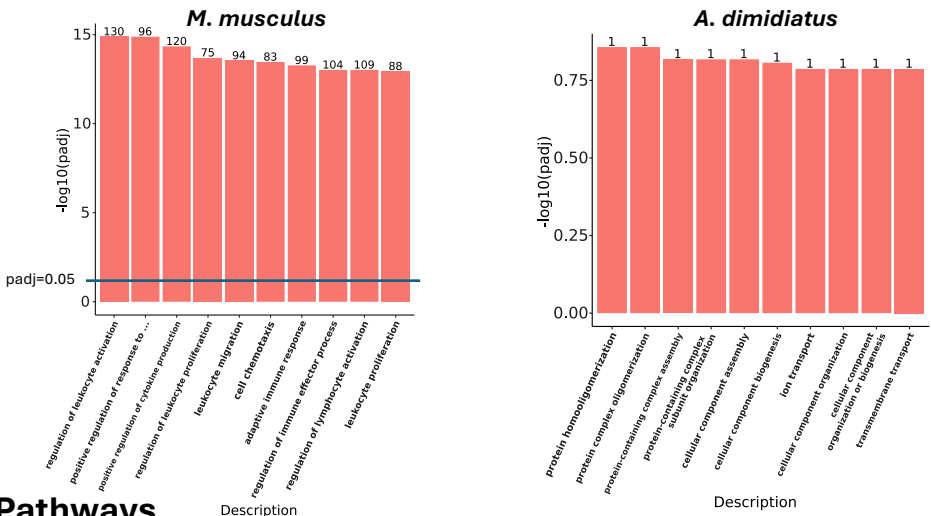
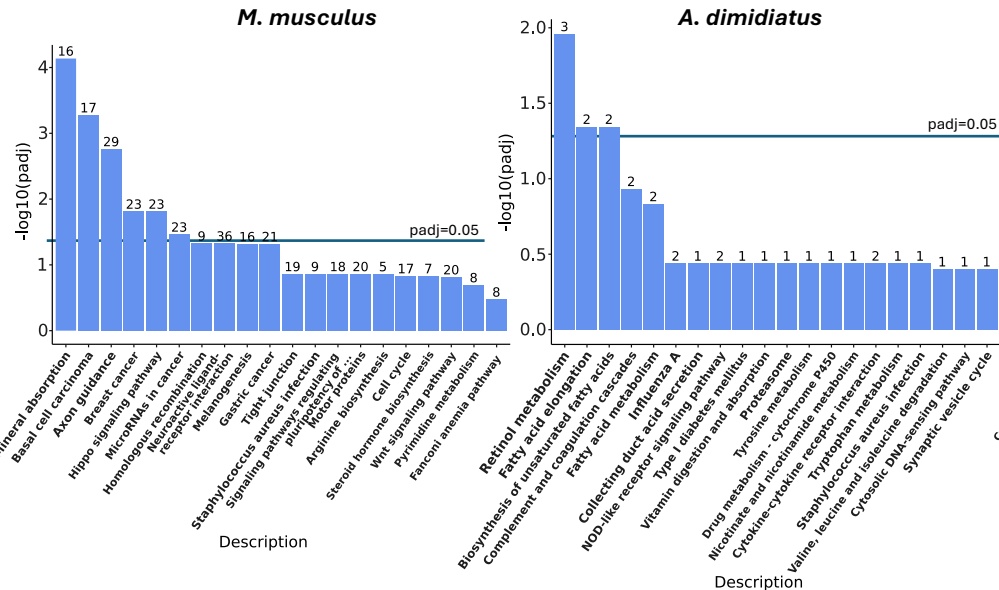
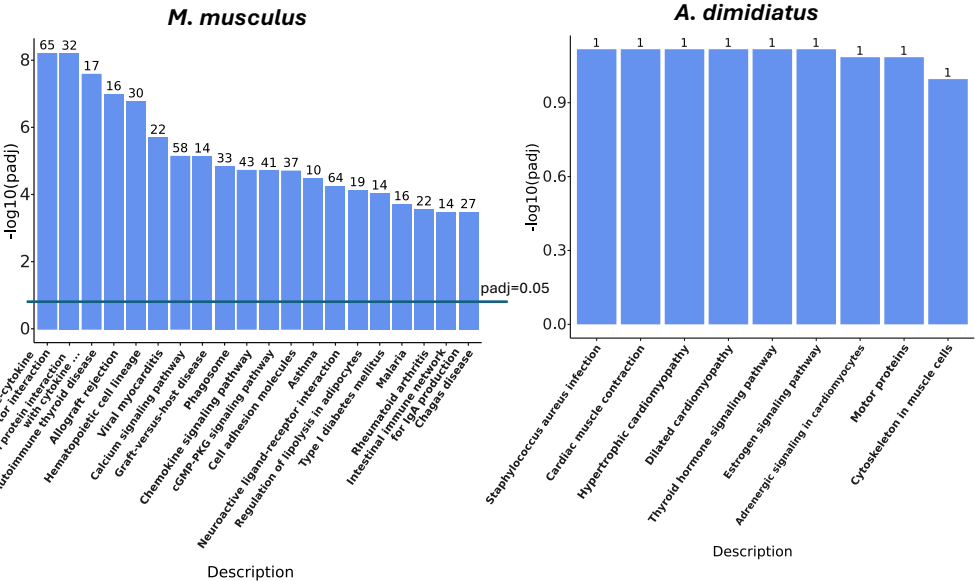
Day 28



Supplementary Figure 1 - Principal component analysis (PCA) for *Acomys dimidiatus* and *Mus musculus* samples. (A) PCA analysis of samples collected one day after application of DMBA in both *A. dimidiatus* and *M. musculus*. **(B)** PCA analysis of samples collected 14 days after application of short-term DMBA/TPA protocol in both *A. dimidiatus* and *M. musculus*. **(C)** PCA analysis of samples collected 28 days after application of short-term DMBA/TPA protocol in both *A. dimidiatus* and *M. musculus*. MM_D0 represent *M. musculus* samples at day 0, AC_D0 represent *A. dimidiatus* samples at day 0, MM_D1_DMBA represent *M. musculus* samples collected 1 day after treatment with DMBA, AC_D1_DMBA represent *A. dimidiatus* samples collected 1 day after treatment with DMBA, MM_D14_DMBA represent *M. musculus* samples collected 14 days after treatment with DMBA/TPA, AC_D14_DMBA represent *A. dimidiatus* samples collected 14 days after treatment with DMBA/TPA, MM_D28_DMBA represent *M. musculus* samples collected 28 days after treatment with DMBA/TPA, AC_D28_DMBA represent *A. dimidiatus* samples collected 28 days after treatment with DMBA/TPA.

A**Biological Processes****Upregulated****Downregulated****B****Kegg Pathways****Upregulated****Downregulated**

Supplementary Figure 2 - DMBA treatment upregulated several GO biological processes and Kegg pathway. (A) GO Biological processes upregulated and downregulated in *Mus musculus* and *Acomys dimidiatus*, 24h after the treatment with DMBA. **(B)** Kegg pathways upregulated and downregulated in *M. musculus* and *A. dimidiatus*, 24h after the treatment with DMBA.

A**Biological Processes****Upregulated****Downregulated****B****Kegg Pathways****Upregulated****Downregulated**

Supplementary Figure 4 – Short-term DMBA/TPA treatment during 28 days upregulated several GO biological processes and Kegg pathway in *Mus* but not in *Acomys*. (A) GO Biological processes upregulated and downregulated in *Mus musculus* and *Acomys dimidiatus*, 28 days after the treatment with DMBA. (B) Kegg pathways upregulated and downregulated in *M. musculus* and *A. dimidiatus*, 28 days after the treatment with DMBA.