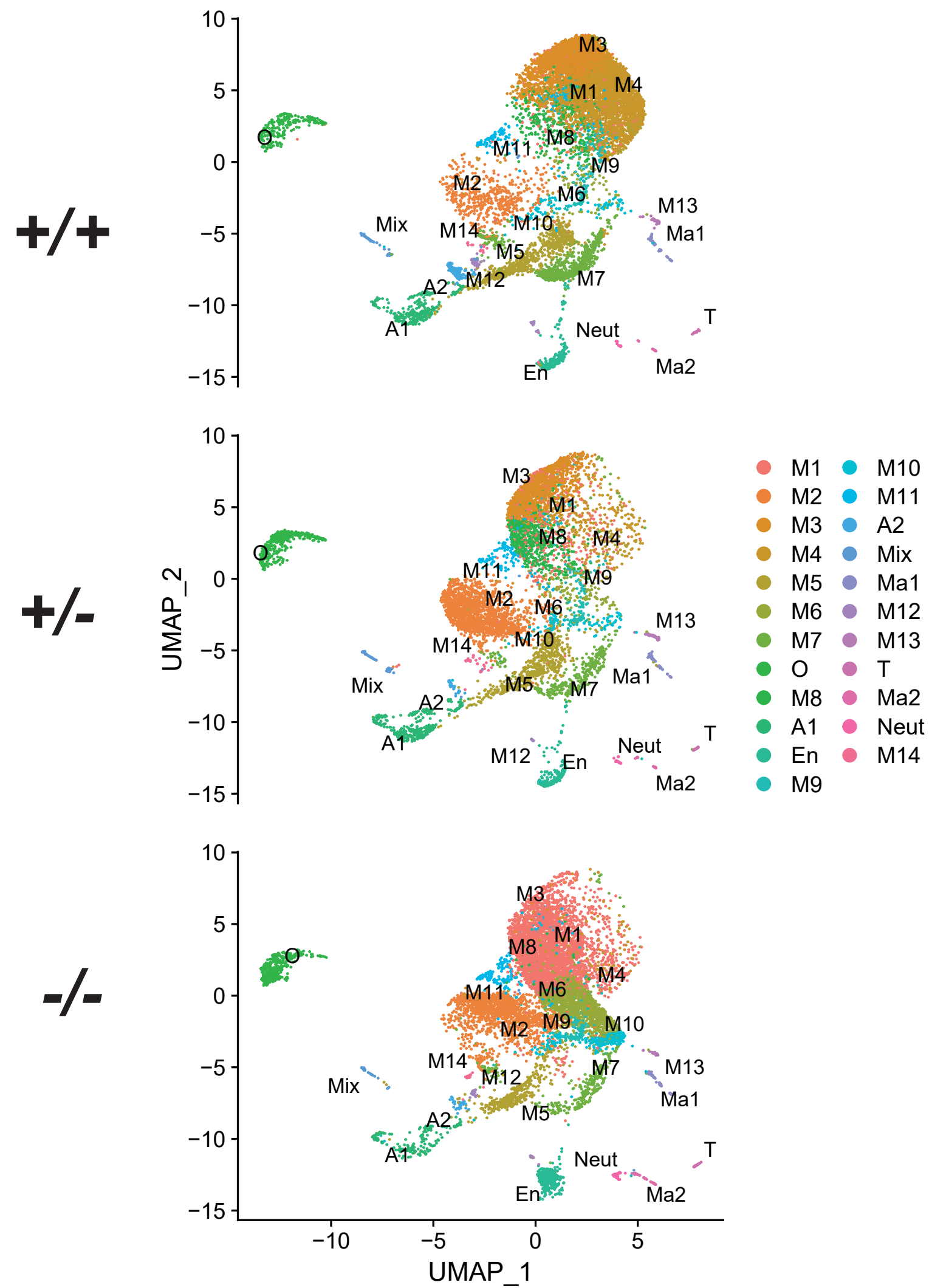
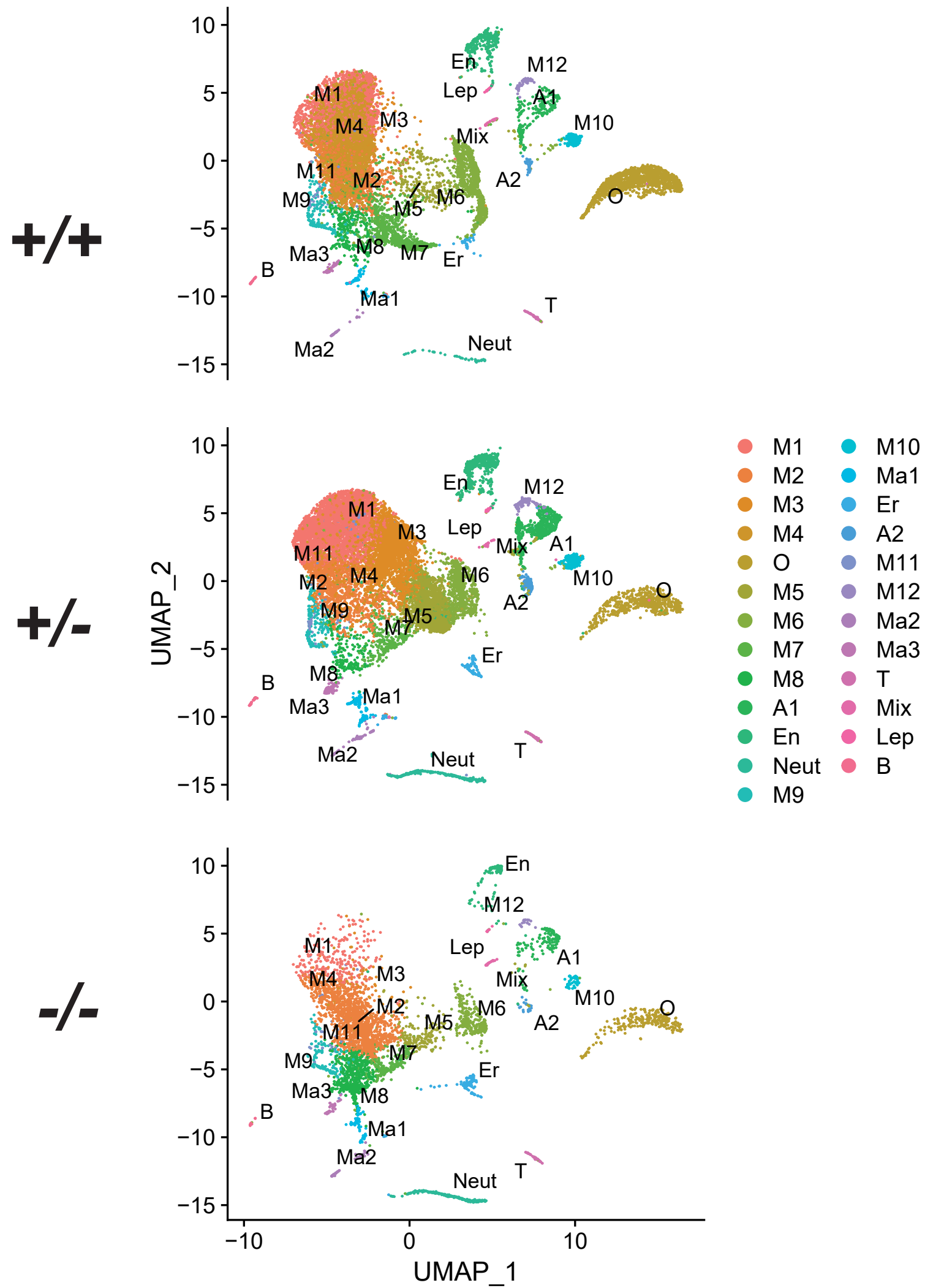


(A)**FEMALE****(B)****MALE**

SUPPLEMENTARY FIGURE 5: UMAPS PER GROUP. (A) UMAP showing changes in cell distributions between clusters in female *Inpp5d* wildtype (+/+), heterozygous (+/-) and homozygous knockout (-/-) mice. (B) UMAP showing changes in cell distributions between clusters in male *Inpp5d* wildtype (+/+), heterozygous (+/-) and homozygous knockout (-/-) mice. (A = astrocytes, B = B-cells, En = endothelial cells, Er = erythrocytes, Lep = leptomeningeal cells, M = microglia, Ma = macrophage, Mix = mixed cells, Neut = neutrophils, O = oligodendrocytes, T =T-cells)