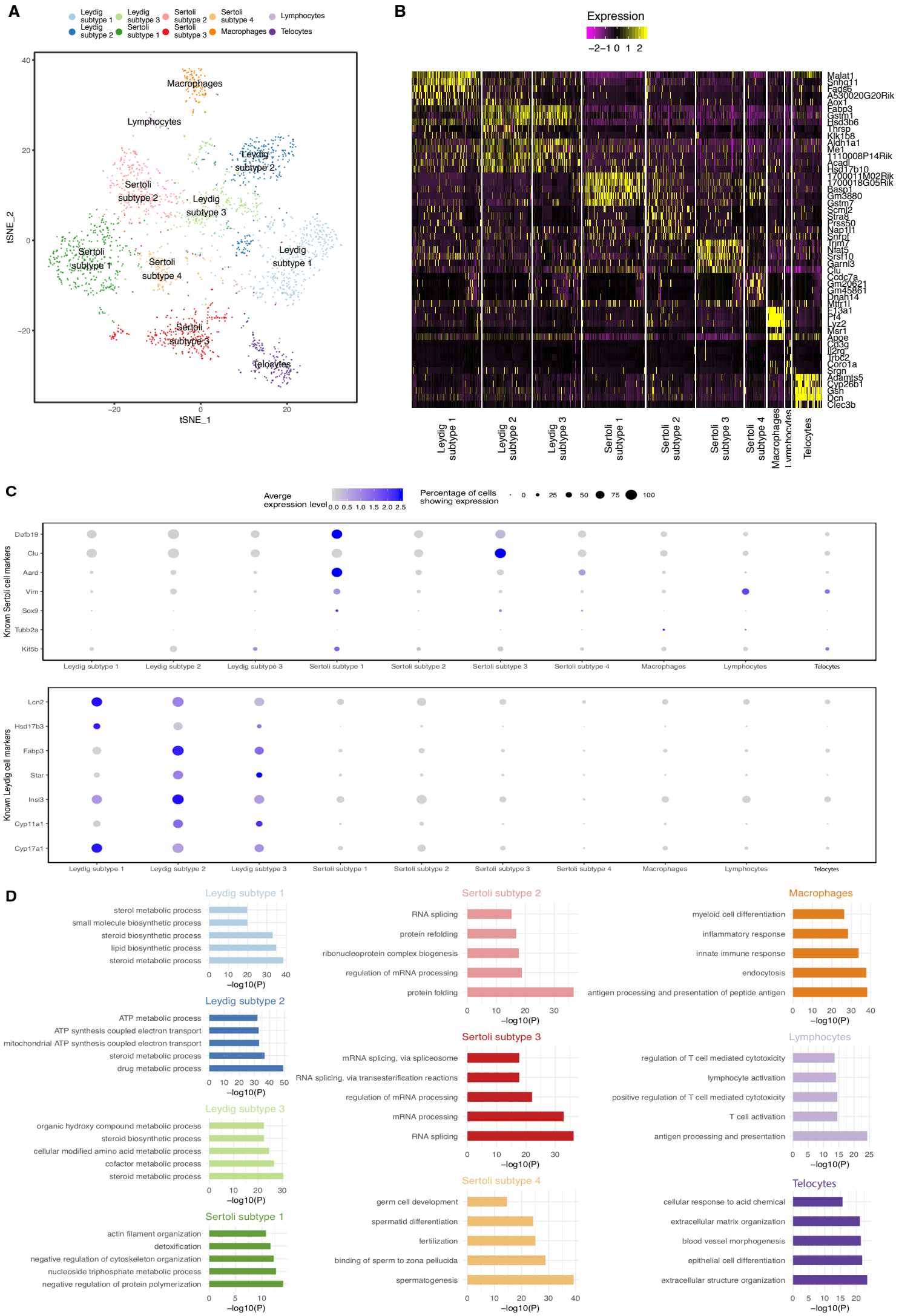
A
Leydig subtype 1
Leydig subtype 2
Leydig subtype 3
Sertoli subtype 1
Sertoli subtype 2
Sertoli subtype 3
Sertoli subtype 4
Macrophages
Lymphocytes
Telocytes
tSNE_1
tSNE_2
B
Expression
−2 −1 0 1 2
Malat1
Snhg11
Fads6
A530020G20Rik
Aox1
Fabp3
Gstm1
Hsd3b6
Thrsp
Klk1b8
Aldh1a1
Me1
1110008P14Rik
Acadl
Hsd17b10
1700011M02Rik
1700018G05Rik
Rasp1
Gm3880
Gstm7
Scml2
Stra8
Prss50
Nap1l1
Snrpf
Trim7
Nfat5
Srsf10
Garnl3
Clu
Ccdc7a
Gm20621
Gm45861
Dnah14
Wtfr1l
F13a1
Pf4
Lyz2
Msr1
Apoe
Cd3g
Il2rg
Trbc2
Coro1a
Srgn
Adamts5
Cyp26b1
Gsn
Dcn
Clec3b
C
Averge expression level
0.0 0.5 1.0 1.5 2.0 2.5
Percentage of cells showing expression
0 25 50 75 100
Known Sertoli cell markers
Defb19
Clu
Aard
Vim
Sox9
Tubb2a
Kif5b
Known Leydig cell markers
Lcn2
Hsd17b3
Fabp3
Star
Insl3
Cyp11a1
Cyp17a1
Leydig subtype 1
Leydig subtype 2
Leydig subtype 3
Sertoli subtype 1
Sertoli subtype 2
Sertoli subtype 3
Sertoli subtype 4
Macrophages
Lymphocytes
Telocytes
D
Leydig subtype 1
sterol metabolic process
small molecule biosynthetic process
steroid biosynthetic process
lipid biosynthetic process
steroid metabolic process
−log10(P)
Leydig subtype 2
ATP metabolic process
ATP synthesis coupled electron transport
mitochondrial ATP synthesis coupled electron transport
steroid metabolic process
drug metabolic process
Leydig subtype 3
organic hydroxy compound metabolic process
steroid biosynthetic process
cellular modified amino acid metabolic process
cofactor metabolic process
steroid metabolic process
Sertoli subtype 1
actin filament organization
detoxification
negative regulation of cytoskeleton organization
nucleoside triphosphate metabolic process
negative regulation of protein polymerization
Sertoli subtype 2
RNA splicing
protein refolding
ribonucleoprotein complex biogenesis
regulation of mRNA processing
protein folding
Sertoli subtype 3
mRNA splicing, via spliceosome
RNA splicing, via transesterification reactions
regulation of mRNA processing
mRNA processing
RNA splicing
Sertoli subtype 4
germ cell development
spermatid differentiation
fertilization
binding of sperm to zona pellucida
spermatogenesis
Macrophages
myeloid cell differentiation
inflammatory response
innate immune response
endocytosis
antigen processing and presentation of peptide antigen
Lymphocytes
regulation of T cell mediated cytotoxicity
lymphocyte activation
positive regulation of T cell mediated cytotoxicity
T cell activation
antigen processing and presentation
Telocytes
cellular response to acid chemical
extracellular matrix organization
blood vessel morphogenesis
epithelial cell differentiation
extracellular structure organization