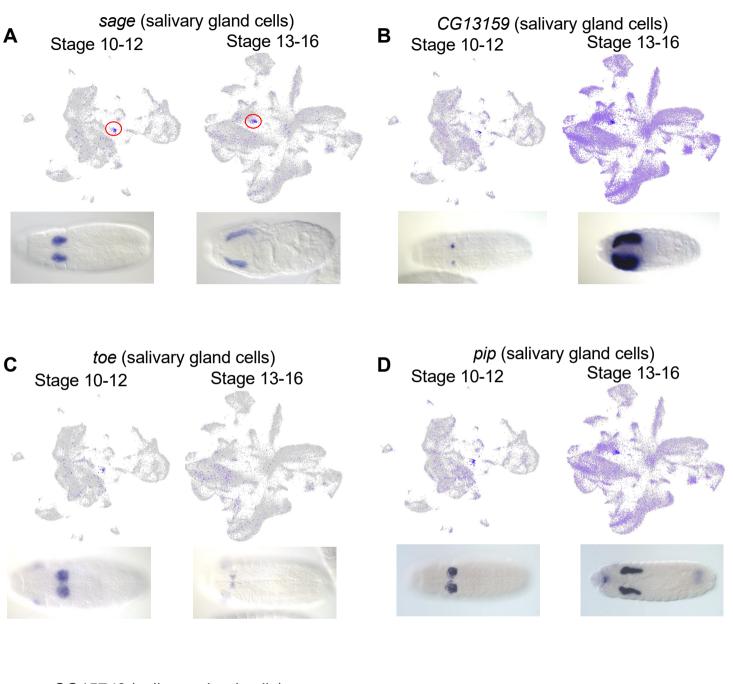


Fig. S1. UMAPs showing the (A) batch information and (B) Seurat clusters for stage 10-12 embryos. UMAPs showing the (C) batch information and (D) Seurat clusters for stage 13-16 embryos. Tables that map Seurat clusters to cell types for (E) stage 10-12 embryos and (F) stage 13-16 embryos.



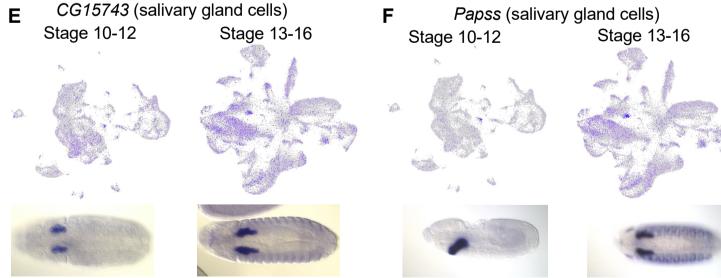
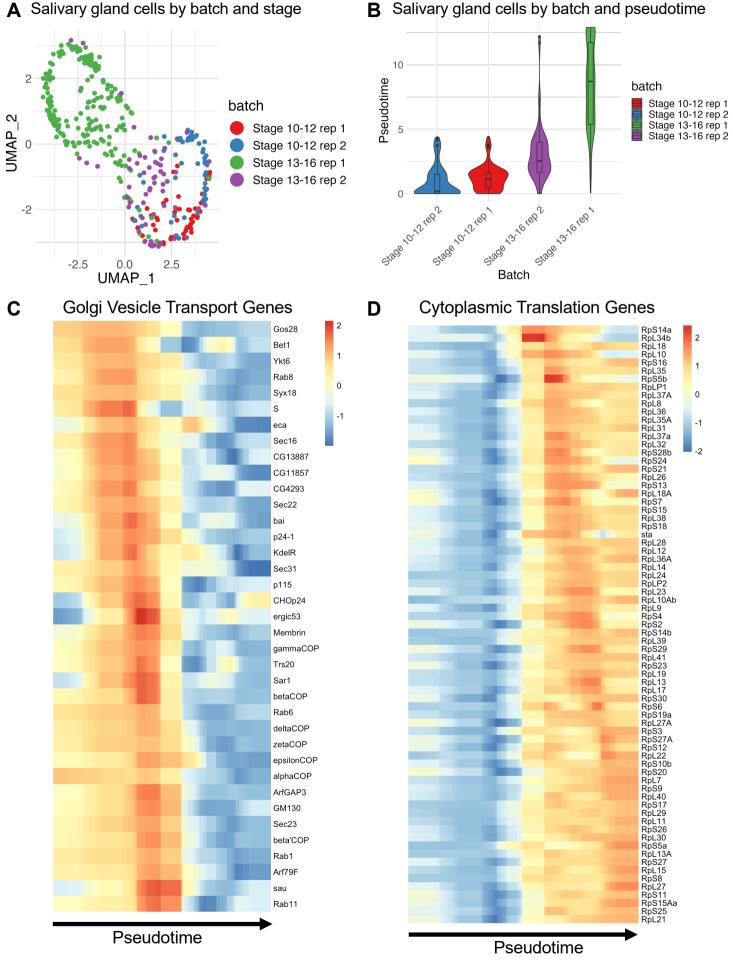
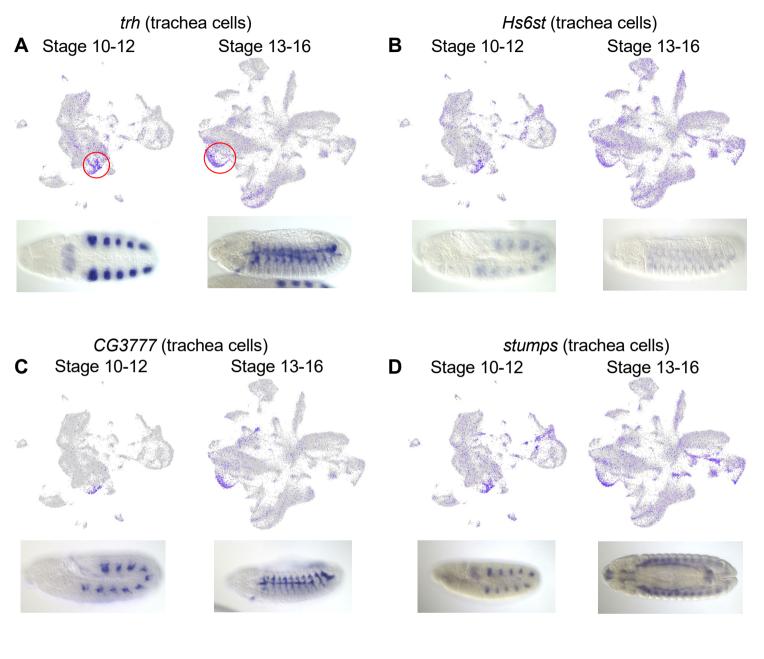


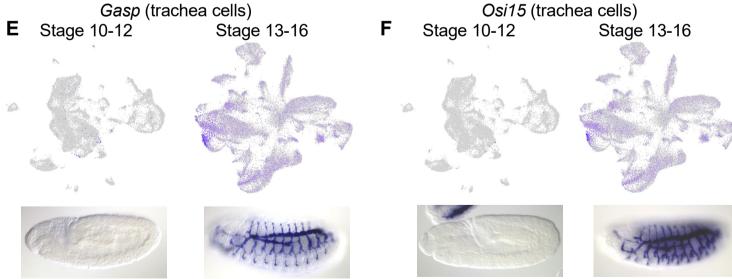
Fig. S2. #\$%&'" *+.("'+J"3<+K36A3,8 "736L/6"-/,/' MJG6/"+)," 00%\$#ageN"09CG13159N"0B"toeN"0Q1pN"0H1" *CG15743*"3,8"0I1"*Papss*1")K/6<3A/8"+2).(" '.3-/" =>?=@3,8"'.3-/" =D?=E/726A)'!"#,8/6,/3.(" .(/" #\$%&'" 36/"+" '+.;'" 56)7"9CO&")5".(/"'+J"'3<+K36A38"736L/6"-/,/" +,".3-/" =>?=@3,8 "'.3-/" =D?E/726A)'! "F(/" 6/8"4+64</" +,8+43./!(/" 3GG6)J+73./#\$%&"<)43.+),")5"'3<+K36A38"4/<<'5)6".3-/" =>?=@3,8"'.3-/" =D?E/726A)'!""



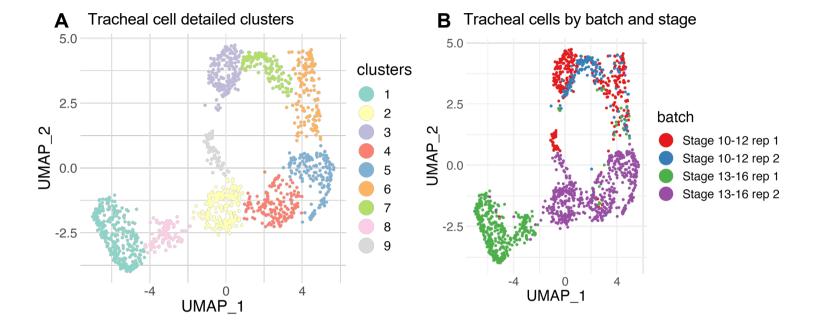
A Salivary gland cells by batch and stage

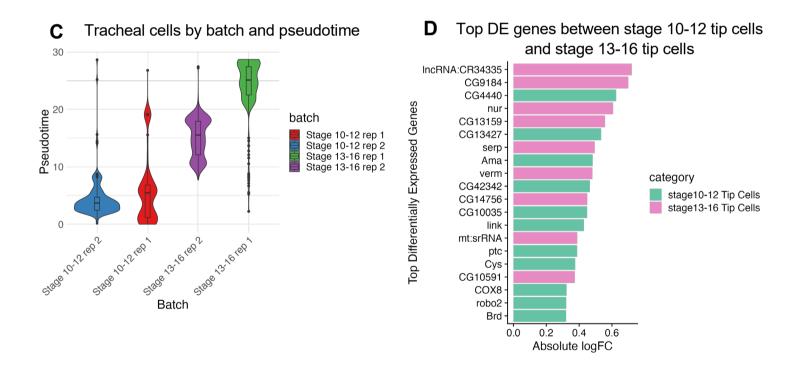
-./., !7!"0%1"#\$%&"()*+,-".(/" 23.4("+,5)673.+),"5)6".O" 4/<<'!'091P+)<+G<)."()*+,-" .(/"8+'.6+2;.+),")5" G'/;8).+7/" 346)' '"8 +55/6/,"23.4(/' "5)6".O "4/<<'!":43</8"3,8" '7)).(/8"/JG6/"+),")5".(/" </38+,-"/8-/" -/,/" +," 0B1O)<-+P/'+4</"F63,'G)6."-/,/ "/. "3,8" 0C1BA.)G<3'7+4F63,'<3.+),"-/,/" '/." 5)6".O" 4/<<'346)''" G'/;8).+7/ !""



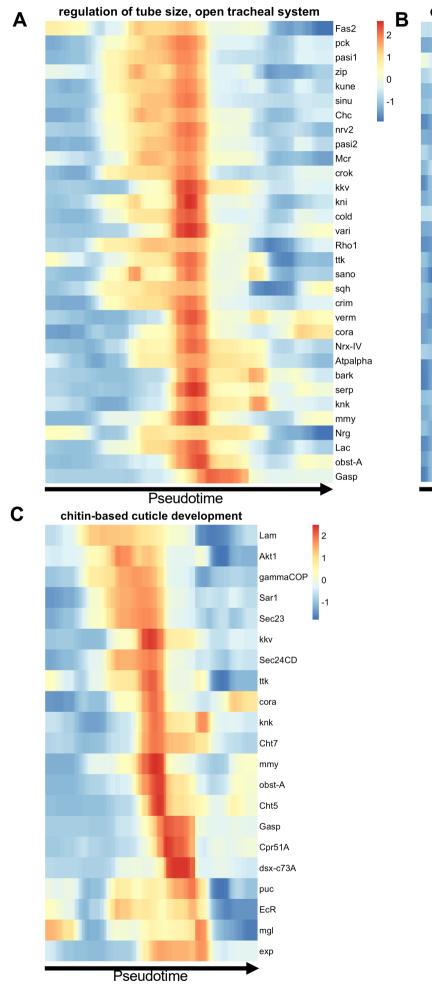


-./., !86,#\$%&" *+.("'+J".634(/3<'736L/6"-/,/'M" /JG6/"+),"00%1"+230@14!5!+N"0B1%&(///N"0C1"!+67-!N"0H1&"!-N"0I1" 8!.')1")K/6<3A/8"+," 2).(" '.3-/" =>?=@3,8"'.3-/" =D?=閏726A)'!"#,8/6,/3.(" .(/" #\$%&\" 36/"+,"+.;\" 56)7"9CO&")5".(/" '+J".634(/3<'736L/6"-/,/' "+".3-/"=>?= @"3,8".3-/" =D?=₺726A)'!" F(/" 6/8"4+64</*+,8+43./".(/" 3GG6)J+73./#\$ %&" <)43.+),\")5".634(/3<'4/<5)6"'.3-/ "=>?=@3,8 "'.3-/" =D?£₺726A)'!"

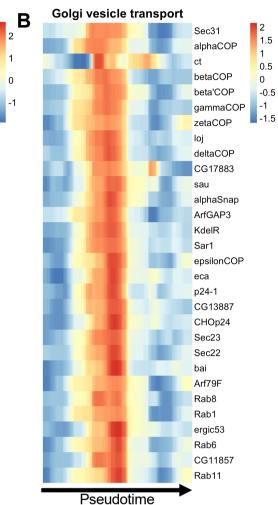




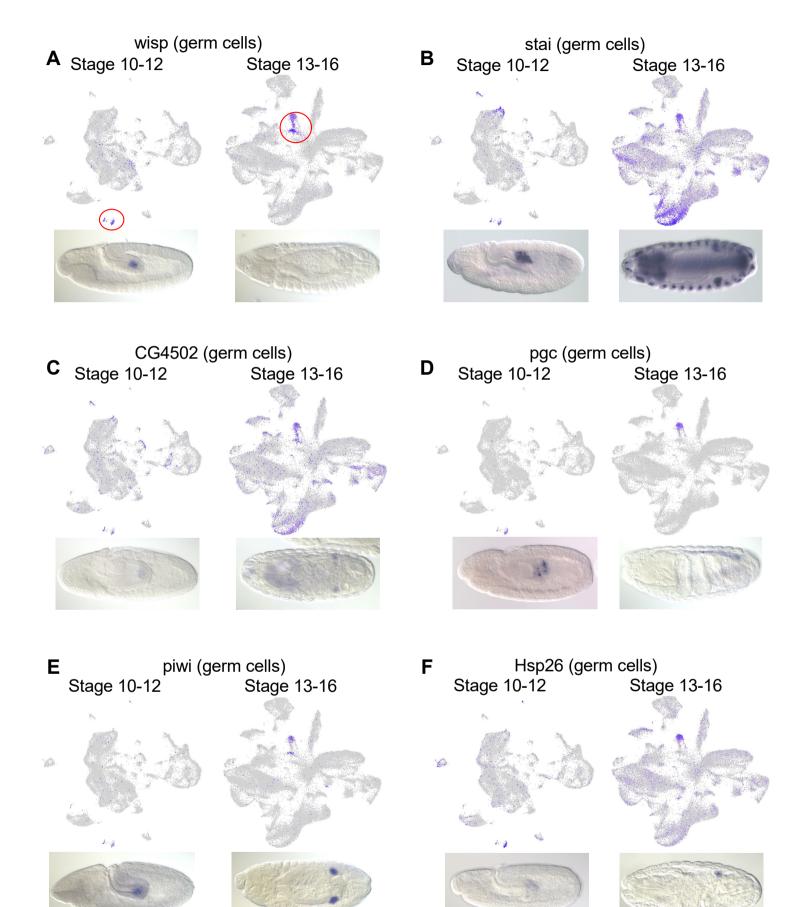
 $-./., !9." \#\%\&''''()^{+},-" ..(/" 0\%1"4<;'./6'3,8 "091"23.4("+,5)673.+),"5)6".634(/3<4/<<'!"0B1"P+)<+,"G())+,-" ..(/" 8+'.6+2;.+),")5"G'/;8).+7/" 346)'' "8+55/6/,.23.4(/" 5)6".634(/3<4/<<'!"0C1"936"G'().*"+,-" ..(/" .)G"@>7)'." 8+55/6/,.43</bd>$



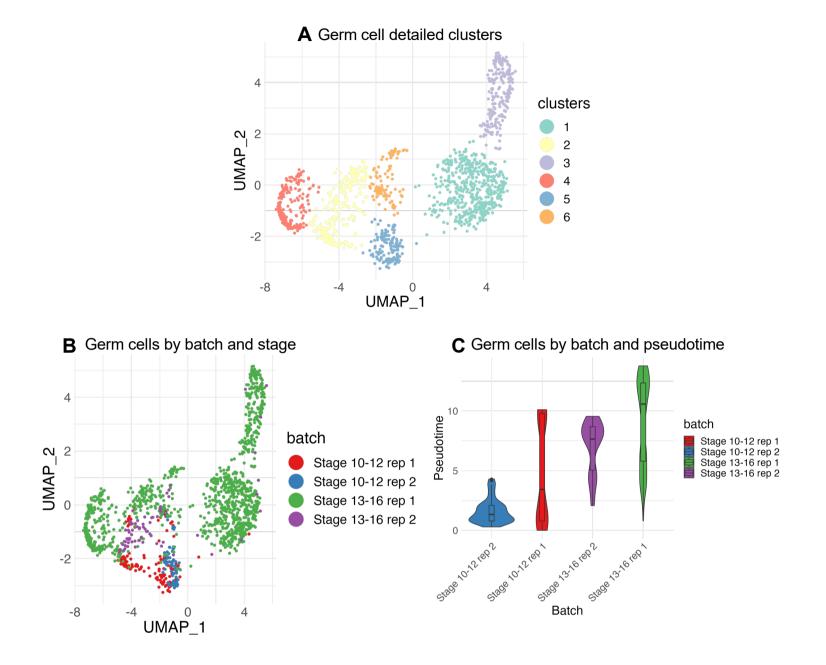
-./., !:." :43</8"3,8"'7)).(/8" / JG6/"+), ") 5"</38+,-"/8-/" -/,/" +,'0%16'/-;<3.+),")5".;2/"'+Q/N")G/," .634(/3<" 'A'./7N" 091'O)<-+K/"+4</".63,'G)6."3,8" 0B1'4(+.+?23 /8"4;.+4</8/K/<)G7/,."-/,/" '/." 5)6".634(/3<#/<<'" 0/J4<;8+,-".(/" .634(/3<".+G4/<<'1346)'' "G/;8).+7/ !"""



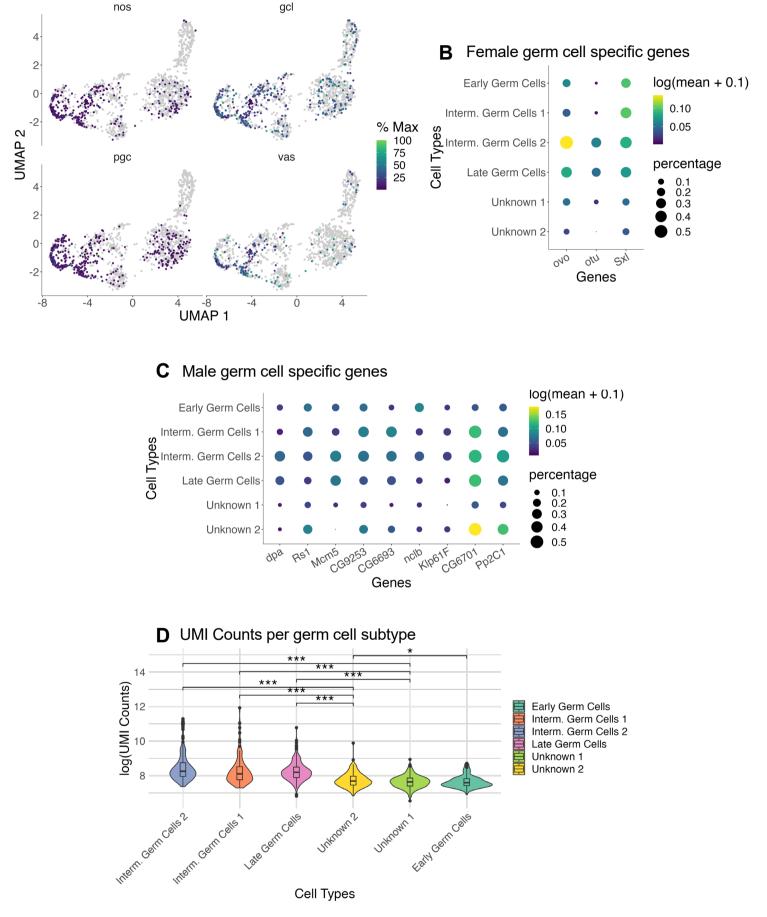
Development • Supplementary information



-./.,!;6, #\$%&'"*+.(" '+J"-/67"4/<<"736L/6"-/,/'M"/JG6/"+),"00%1" 9.!-N"091**!**+".N"0B%&0):;N"0C1"#<N"0H1.9.N"0I1" 4!-;51")K/6<3A/8" +,"2).("'.3-/"=>?=@ "3,8"'.3-/"=D?=E "/726A)'!" R)./".(3." .(+'"+'".(/"),<A"<3./?'.3-/"/726A)" +73-/" 3K3+<32</"3."9CO&)6'9.!-=>#,8/6,/3.(".(/"#\$%&'" are in-situs from BDGP of the six germ cell marker genes in stage 10-12 and stage 13-16 embryos. The red circles indicate the approximate UMAP locations of germ cells for stage 10-12 and stage 13-16 embryos.

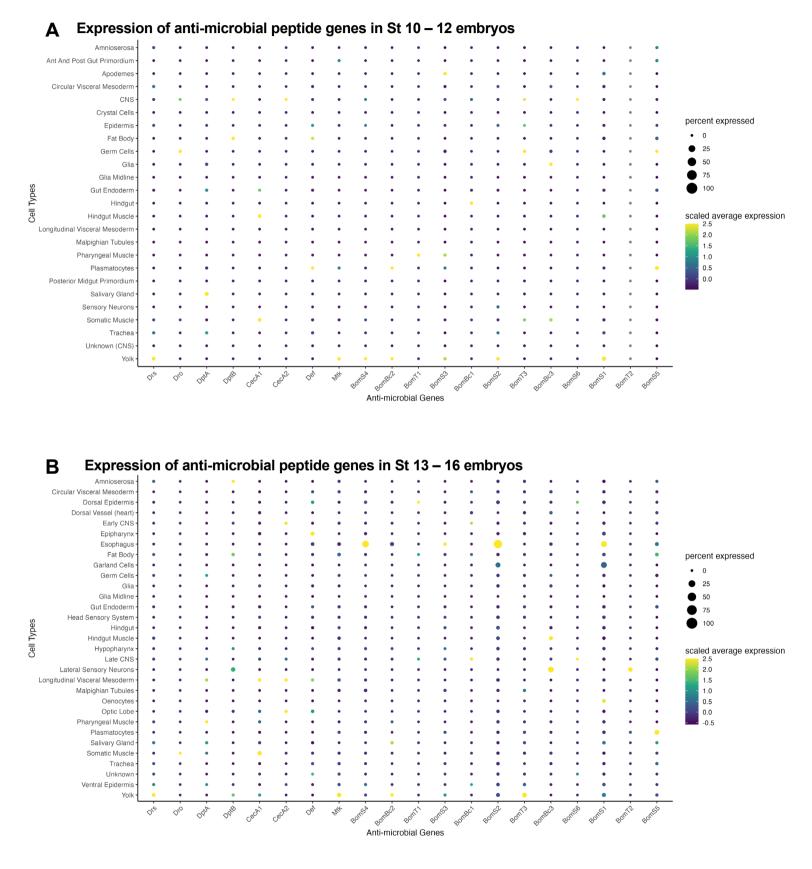


-./., !<." #\$%&''' '()*+,-" .(/" 0%1"4<;'./6'3,8 "091"23.4("+,5)673.+),"5)6"-/67" 4/<<'!"0B1"P+)<+,"G**{**):"+,-" .(/" 8+'.6+2;.+),")5'G'/;8).+7/"5)6".(/" 73+,".63S/4.)6A0'H36<@//67" B/<<'N"T,./67!"O/67''B/<<'''=NT,./67!" O/67" B/<<'''@\" U3./"O/67" B/<<'1346)'''8 +55/6/,.23.4(/' "5)6'-/67" 4/<<'!""

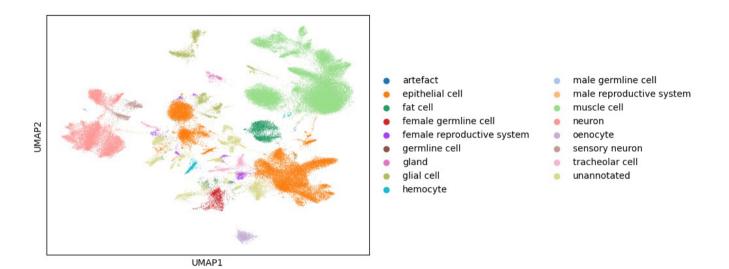


A Characteristic germ cell marker genes

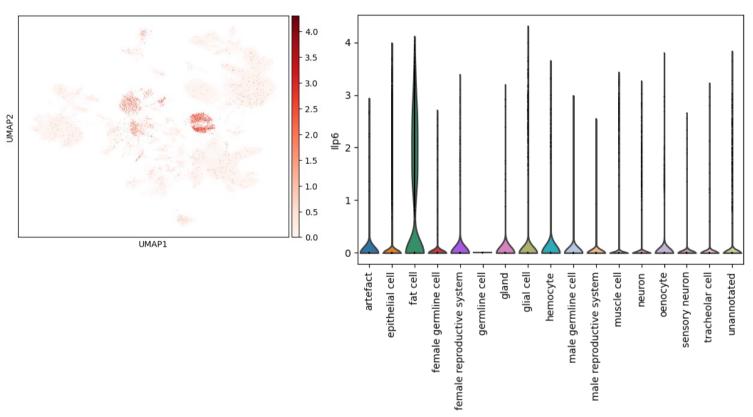
-./., !=." 0%1"#\$%&']5"-/67" 4/<<'*+.("4(3634./6+'.+4"/67"4/<<736L/6"-/,/") K/6<3A/8!"C)."G<).')5" 4(3634./6+'.+4"736L/6"/,/"5)6"0915/73</"OB"G/4+5+4+3;8" 0B173</"OB"G/4+5+4+.A!"F(#Q/")5".(/" 8)." 6/G6/'/,.'" .(/" G/64/,.3-/")5"4/<<'"+,".(/" OB";2?G) G;<3.+),"+,"*(+4(" .(/"-/,/" +'"8/./4./8" 3,8" .(/" 4)<)6')5".(/" 8)." 6/G6/'/,.'" .(/" 7/3,"/ JG6/''+),")5".(/ "-/,/" +,".(/" OB";2?G) G;<3.+),!'0C1P+)<+\$(5<)!!)5"<)-"#\$T"4);,.'" 346)''" 8+55/6/,.OB"'; 2?G)G;<3.+),'!"



A Adult Cell Types

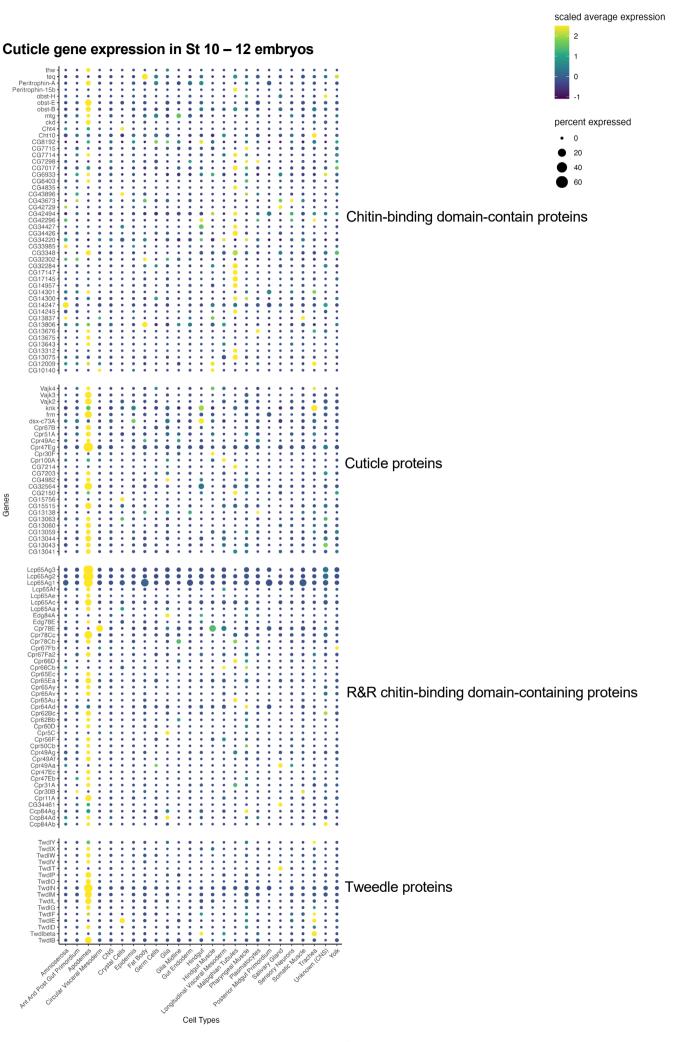


B *Ilp6* expression

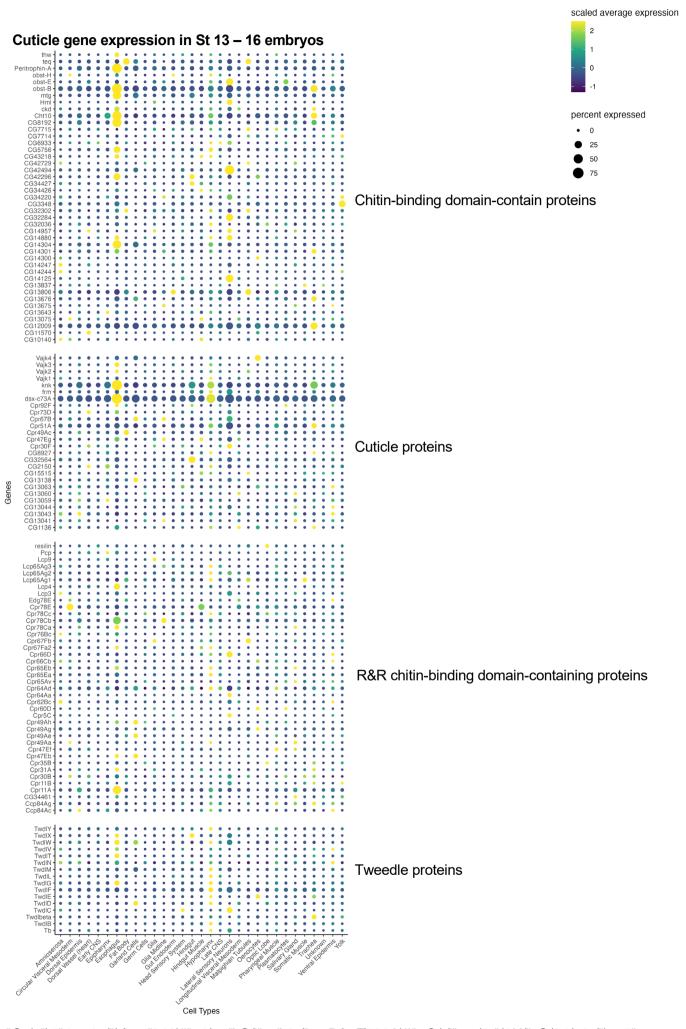


-./., !44."?@-5'JG6/"+),"G 3../6,'"+," 38;<.'56;+5'<A4VR%?'/ W56)7"I<AB/<<%.<3'!0%#\$%&"'()*+,-" 38;<." 56;+5'<A4/<<'AG/!"091"#\$%&"'()*+,-" ?@-5J'G6/"+),!" 0B1P+)<+\$<).)'5'?@-5J'G6/"+)," 346)'"8 +55/6/,.'38;<." 56;+5'<A4/<<'AG/!""

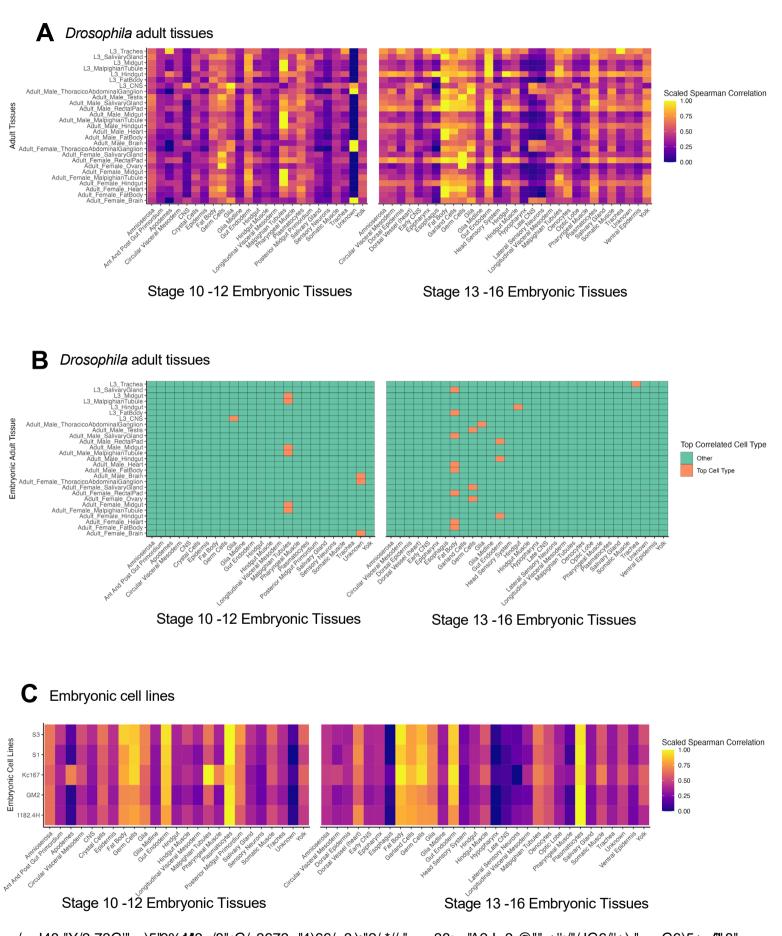
C High *Ilp6* expression corresponds to fat body cells



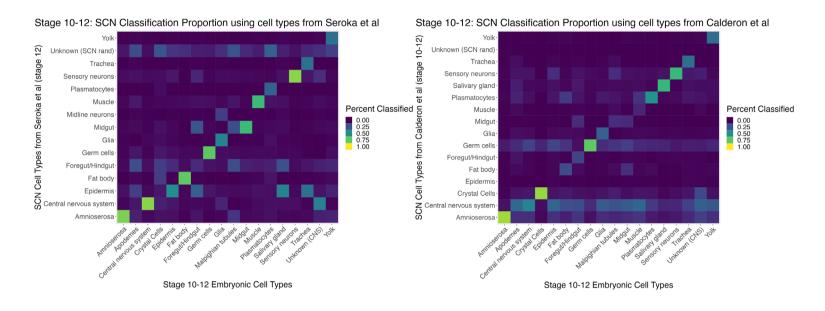
 $\begin{aligned} -./., & !45."C)." G<)."5"4; +4</!'/!" & 346)"" & 4/<<'AG/'"+,".3-/" & =>?=@726A)'!" O/./"". & (3."(3K/ "G/64/..3-/") 5" \\ & /JG6/"+,- "4/<<'"</"" & (3." & X"+,"3<<'"" & 4/<<'AG/'"*/6/" & 6/7)K/8" 3'" <)*<A"/JG6/''/8" & -/./!" & F(/" '+Q/")5".(/" 8)." \\ & 6/G6/',.'" & .(/" G/64/..3-/")5"4/<<'"+,".(/ "/726A),+4" & 4/<<'AG/''+, '*(+4(" .(/" -/./" +''8/./4./8" 3,8" .(/" 4)<)6")5".(/"8)." \\ & 6/G6/',.'" & .(/" 7/3," /JG6/''+),")5".(/" -/./" +,".(/" /726A),+4" & 4/<<'AG/!" \\ \end{aligned}$



-./., !47."C)."G<).")5"4;.+4</¹/,/' "346)'" 4/<<'AG/'"+,".3-/" =D?=閏726A)'!" O/,/". (3."(3K/" G/64/,.3-/") 5" /JG6/"+,-"4 /<<'"</'" .(3," =X"+,"3<)5".(/" 4/<<'AG/"36/"6/7)K/8" 3'"<)*<A''JG6/''/8" -/,/!" F(/" '+Q/")5".(/" 8)." 6/G6/'/,.'" .(/" G/64/,.3-/")5"4/<<'"+,".(/"/726A),+4" 4/<<'AG/"+"*(+4(" .(/" -/,/" +'"8/./4./8" 3,8" .(/" 4)<)6")5".(/" 8)." 6/G6/'/,.'" .(/"7/3," /JG6/''+),")5".(/" -/,/" +,".(/" /726A),+4" 4/<<'AG/!"

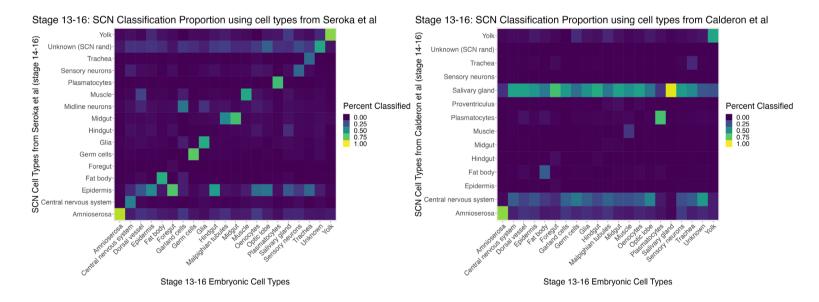


-./., !48."Y/3.73G''')5'0%143</8":G/ 3673, "4)66/<3)+"2/.*//," 38;<."A2,!,-3.@"".+";/"/JG6/"+)," G6)5+</5/8" 3K/63-/" G'/;8)?2; <L/JG6/"+)," G6)5+</5/6)7""+,-</?4/ <'<AG/"+,"./67"")5" .(/" =E>Z".+";/" 736L/6"-/,/" 3,8"091".)G" 4)66/<3./8"'+,-</?4/<4"/<<".AG#<;'./6'" 5)6"38;<."Drosophila tissues. (C) Heatmap of caled Spearman correlation between *Drosophila* embryonic cell lines' expression profiles and average pseudo-bulk expression profiles from single-cell cell type clusters in terms of the 1604 tissue marker genes.

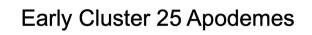


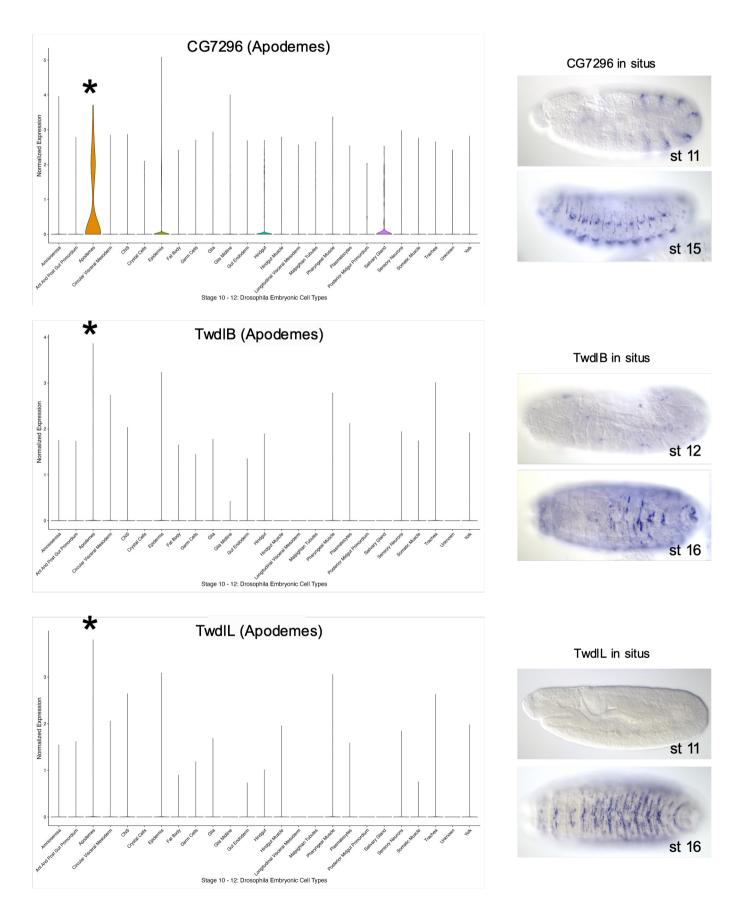
A Comparisons between the scRNA-seq cell types in this study and in other published work, St 10 -12

B Comparisons between the scRNA-seq cell types in this study and in other published work, St 13-16

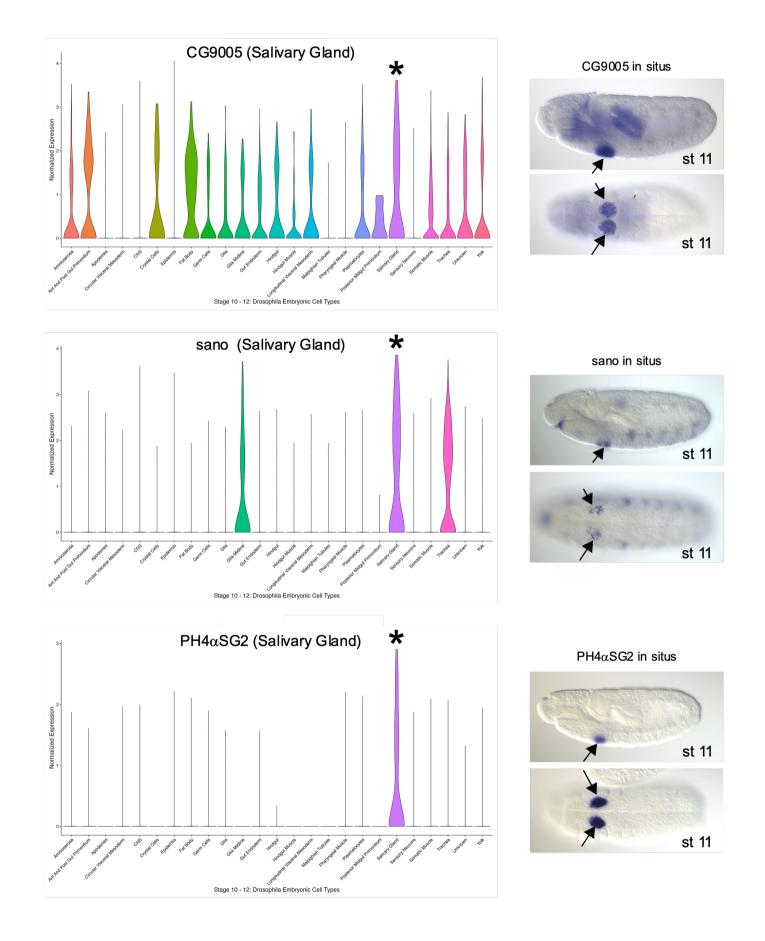


-./., !49."B<3"+5+43.+),6/';<.")5":+,-</B/<<R/."4<3"+5+/6".63+,/8","+,-</?4/<&3.3"56)7":/6)L3"/." 3<3,8" B3<8/6)," /."3<3,8" 3GG<+/8,"). (/" +,-</?4/<&3.3"+,".(+"" .;8A!"Y/3.73G '"'()*+,-" .(/" G/64/,.3-/")5".3-/" =>?=@4/<<'",#);6" /726A),+4"4/<<?@/" .(3."36/"4<3"+5+/83" "(367),+Q/8" 4/<<".AG/'56)7"0%1":/6)L3"/."3<0)," .(/" </5.13',8" B3<8/6),"/ ."3<" 0)," .(/" 6+-(.1!Y/3.73G''' '()*+,-" .(/"G/64/,.3-/")5".3-/" =D?=E4/<<'"+,");6" /726A),+4"4/<<?@/" .(3."36/"4<3"+5+/8" 3'"(367),+Q/8"4/<<".AG/'50)7"091"./6)L3" /."3<0)," .(/" </5.13',8" B3<8/6),"/ ."3<0)," .(/" 6+-(.1!""



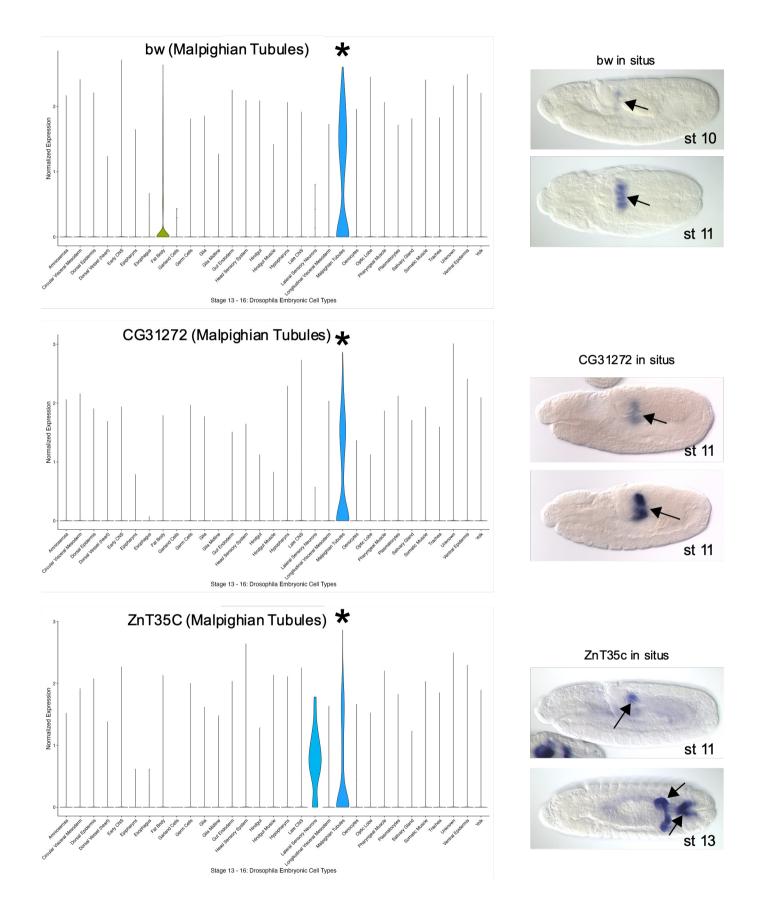


-./., !4:."P+)<+,"G<)."'0)," .(/" </5.1"3,8#,?'+;"+73-/"5 6)7"9CO&"0)," .(/" 6+-(.1")5/36<A"3G)8/7/" 736L/6"-/,/[" %&/;*5" 0.)G1N"B9C107"+88</1"3,8B9C?E02)..)71!""



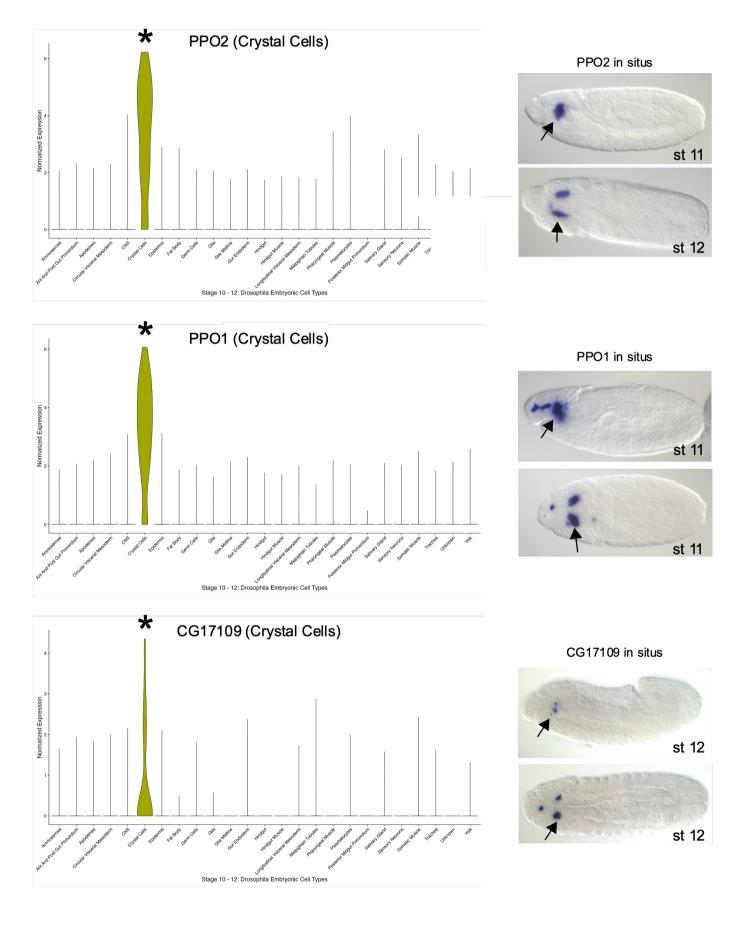
Early Cluster 27 Salivary Gland

-./., !4;."P+)<+,"G<).''0)," .(/" </5.1"3,8[#],?'+;'"+73-/"5 6)7"9CO&"0)," .(/" 6+-(.1")5'36<A'O"736L/6" -/,/'[" %&*::)" 0.)G1N"!"F,07+88</1"3,8140 α G&;"02)..)71!"



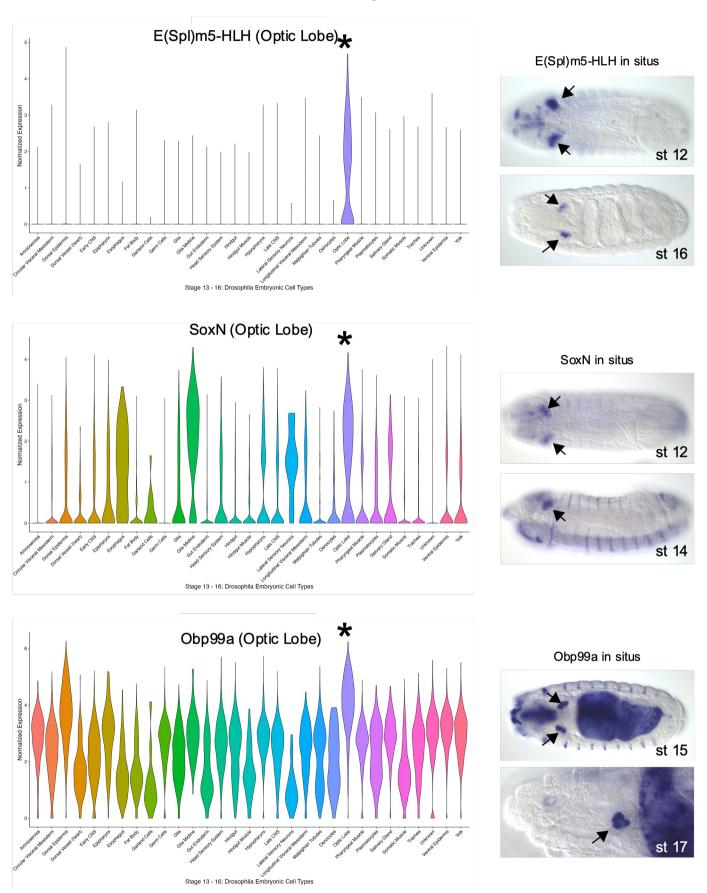
Early Cluster 33 Malpighian Tubules

-./., !4<."P+)<+,G<)."0)," .(/" </5.1"3,8#,?'+;'"+73-/"5 6)7"9CO&"0)," .(/" 6+-(.1)5"/36<A"\$3<G+-(+3,;2;</" 736L/6"-/,/'[" H9"0.)G1N"%&(';/;" 07+88</1"3,8"FB()%" 02)..)71!"""



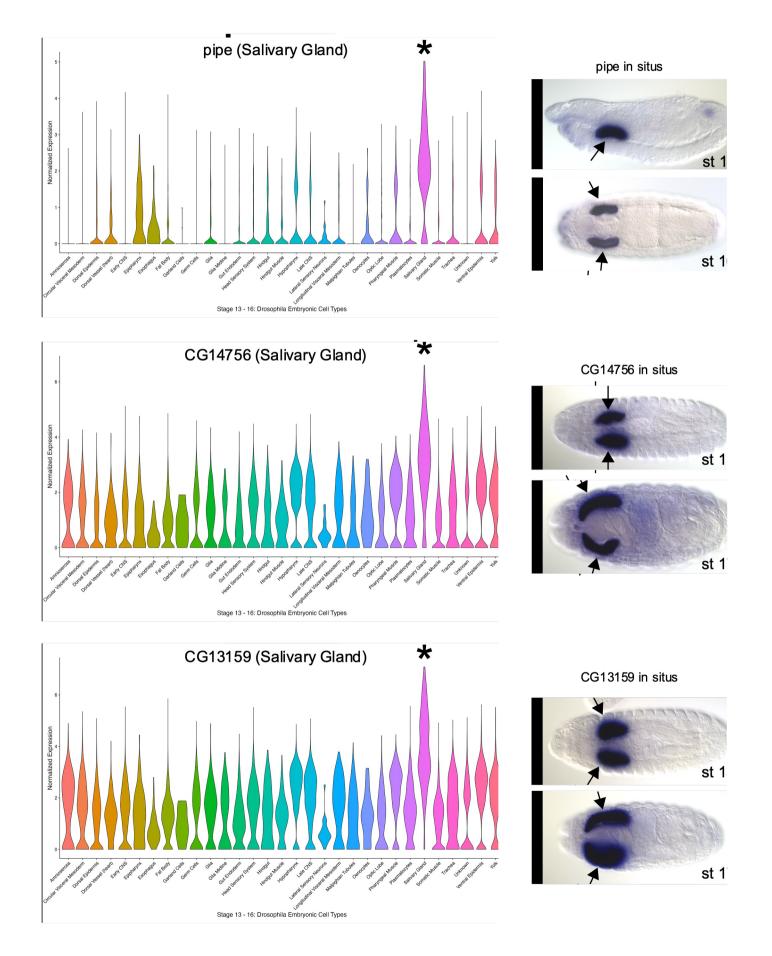
Early Cluster 32 Crystal Cells

-./., !4=."P+)<+,G<)."0),".(/" </5.1"3,8[#],?'+;"+73-/"5 6)7"9CO&"0),".(/" 6+-(.1)'5"/36<A"46A'.34/<<"736L/6" -/,/'[" 118;" 0.)G1N"118''07+88</1"3,8%&'/':*" 02)..)71!"""



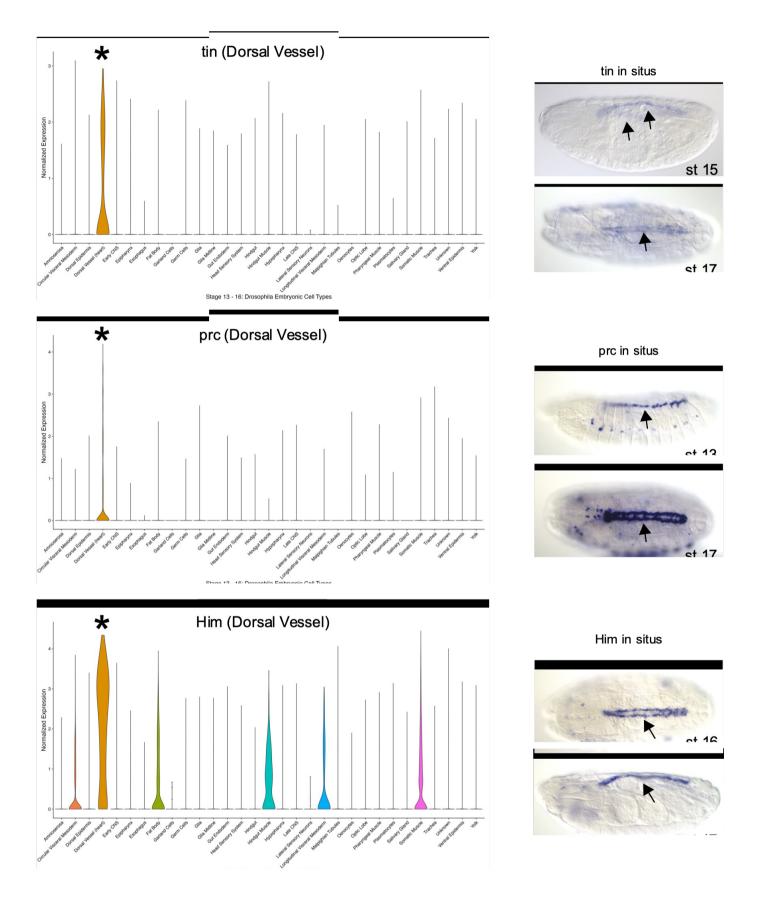
Late Cluster 20 Optic Lobe

-./., !5>."P+)<+,G<)."0)," .(/" </5.1"3,8[‡],?'+;'"+73-/' "56)7 "9CO&"0)," .(/" 6+-(.1)'5"<3./")G.+4"<)2/736L/6"-/,/'[" JKG-@L7)ME4"0.)G1N"G,N07"+88</18',8" 8H-**"" 02)..)71!"""



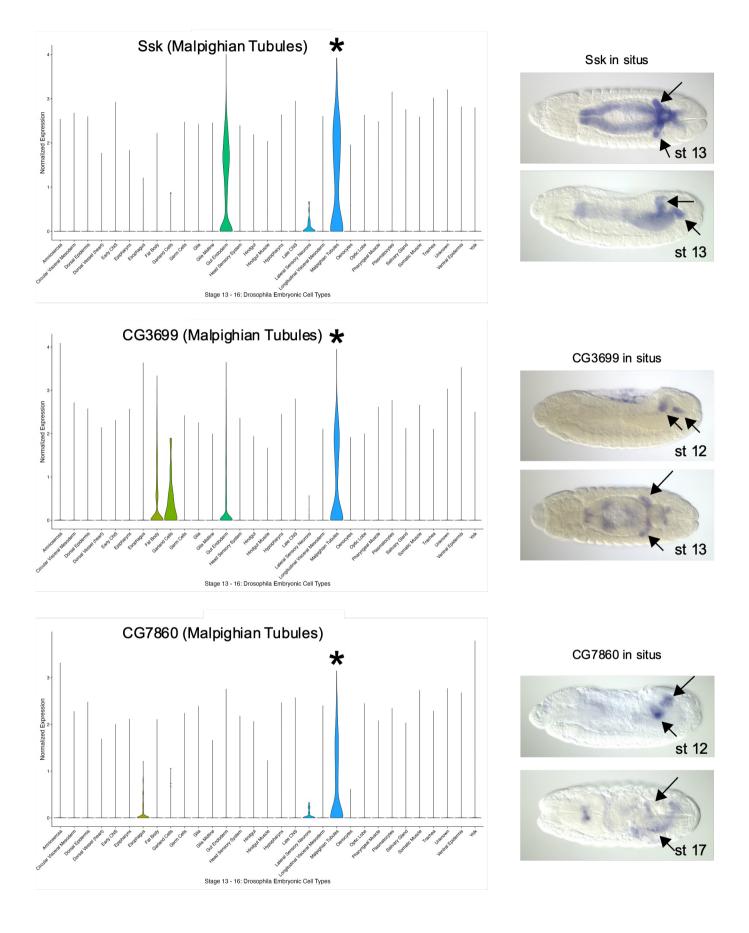
Late Cluster 25 Salivary Gland

-./., !54."P+)<+,G<).''0)," .(/" </5.1"3,8[#],?'+;'"+73-/"5 6)7 "9CO&"0)," .(/" 6+-(.1)'5"<3./':O"736L/6" -/,/'[" -.-\$ " 0.)G1N"%&'0/)5'07+88</1"3,8%&'(')*" 02)..)71!"""



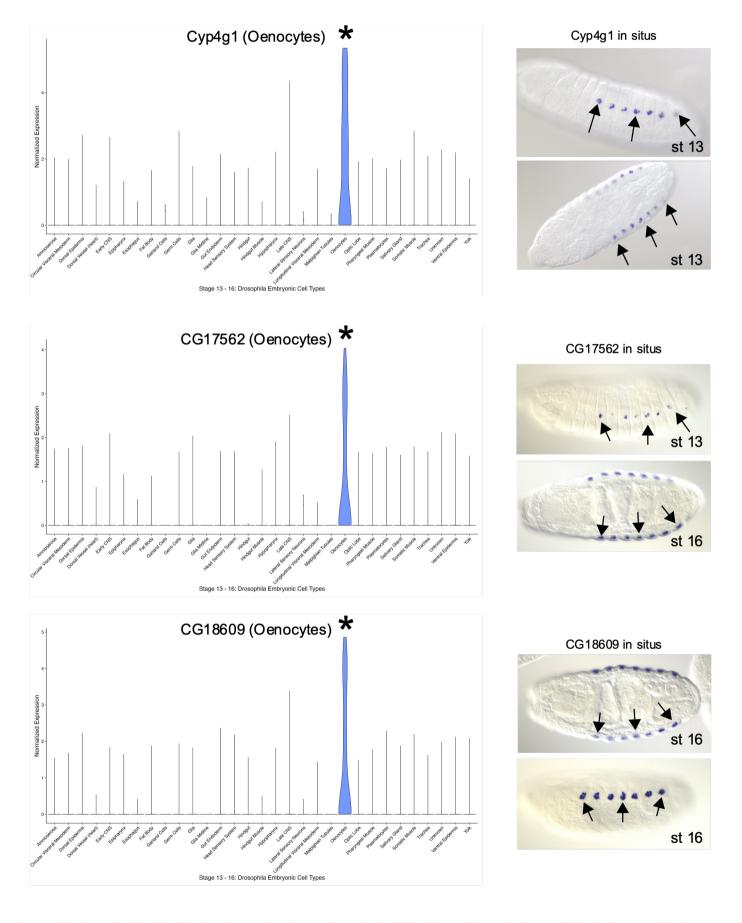
Late Cluster 27 Dorsal Vessel

-./., !55."P+)<+,G<).''0)," .(/" </5.1"3,8#,?'+;'"+73-/"5 6)7"9CO&"0)," .(/" 6+-(.1)5"<3./'8)6'3<"K/''<" 736L/6" -/,/'[" +.F0.)G1N"-207+88</1"3,84.7" 02)..)71!"""



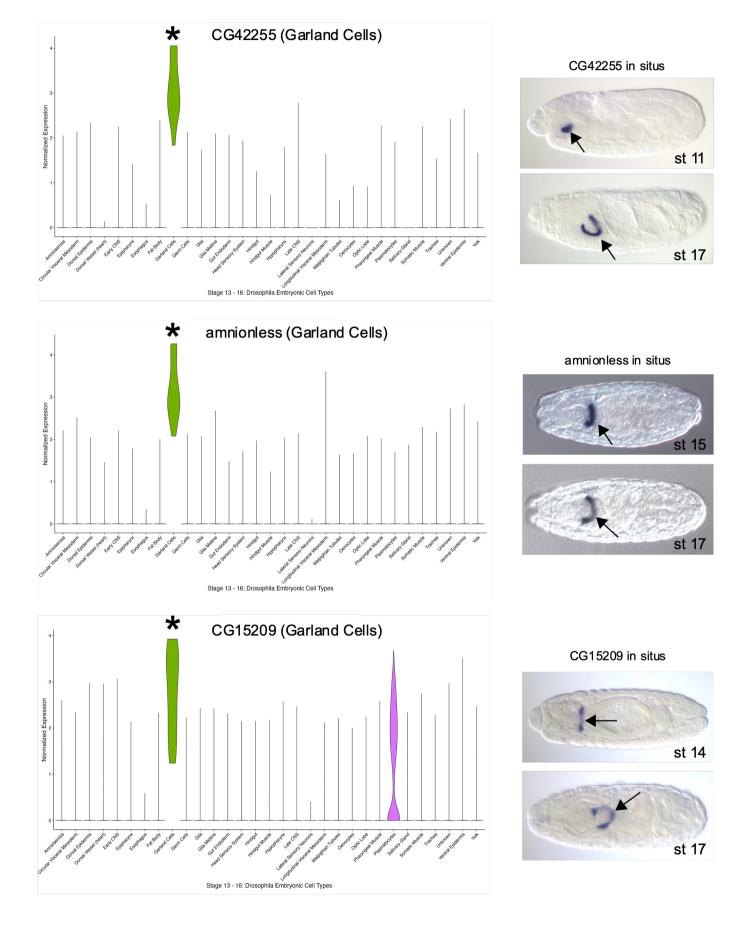
Late Cluster 29 Malpighian Tubules

-./., !57."P+)<+,G<)."0)," .(/" </5.1"3,8[#],?'+;'"+73-/"5 6)7"9CO&"0)," .(/" 6+-(.1)'5"<3./"\$3<G+-(+3,".;2;</" 736L/6"-/,/'[" G!P'0.)G1N"%&(5**07+88</1"3,8%&/Q5:" 02)..)71!"""



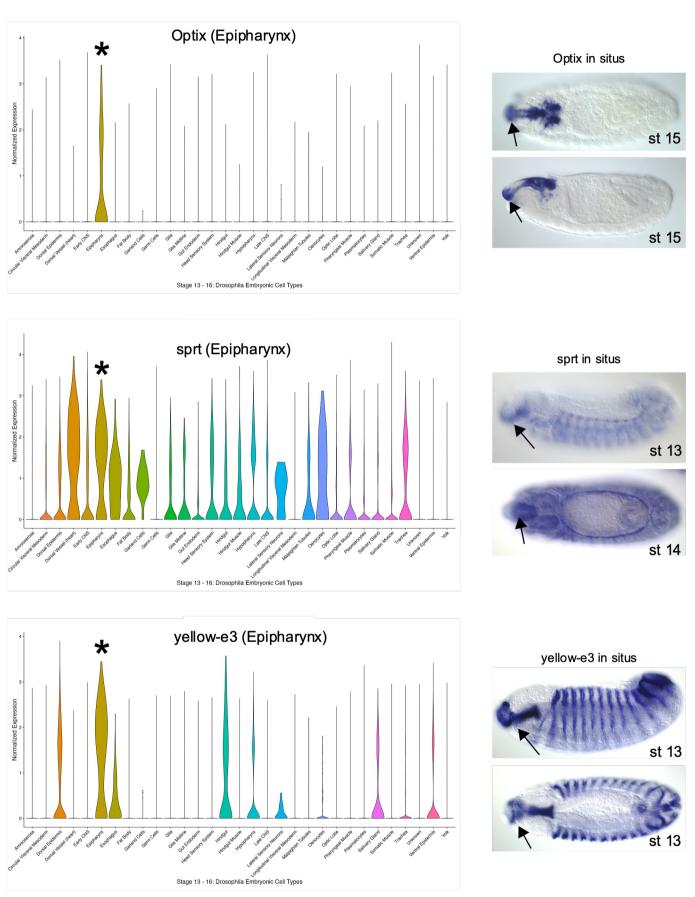
Late Cluster 32 Oenocytes

-./., !58."P+)<+,G<)."0)," .(/" </5.1"3,8[#],?'+;'"+73-/"5 6)7"9CO&"0)," .(/" 6+-(.1)5"<3./")/,)4A./" 736L/6" -/,/'[" %R-0#'"0.)G1N%&'/)5;" 07+88</1"3,8%&'Q5:*" 02)..)71!"""



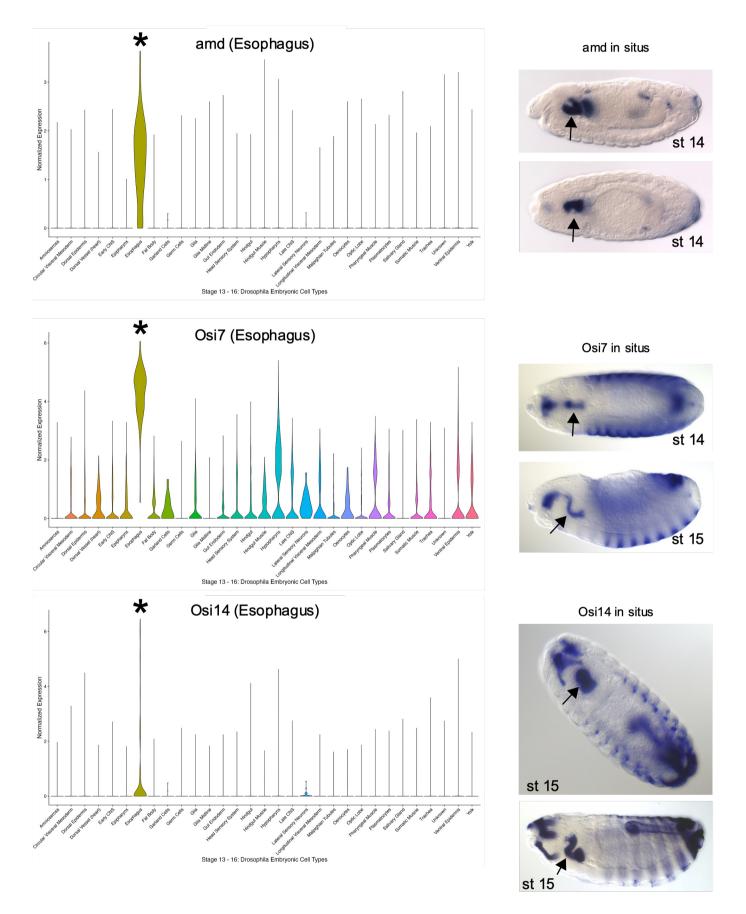
Late Cluster 35 Garland Cells

-./., !59!"P+)<+,'G<).''0)," .(/" </5.1"3,8[‡],?'+;'"+73-/"5 6)7"9CO&"0)," .(/" 6+-(.1)'5"<3./"-36<3,8'⁴/<<''736L/6" -/,/'["%&0;;)) "0.)G1N**7**F.,F@\$!!"07+88</1"3,8^{*}/&');:*" 02)..)71!""



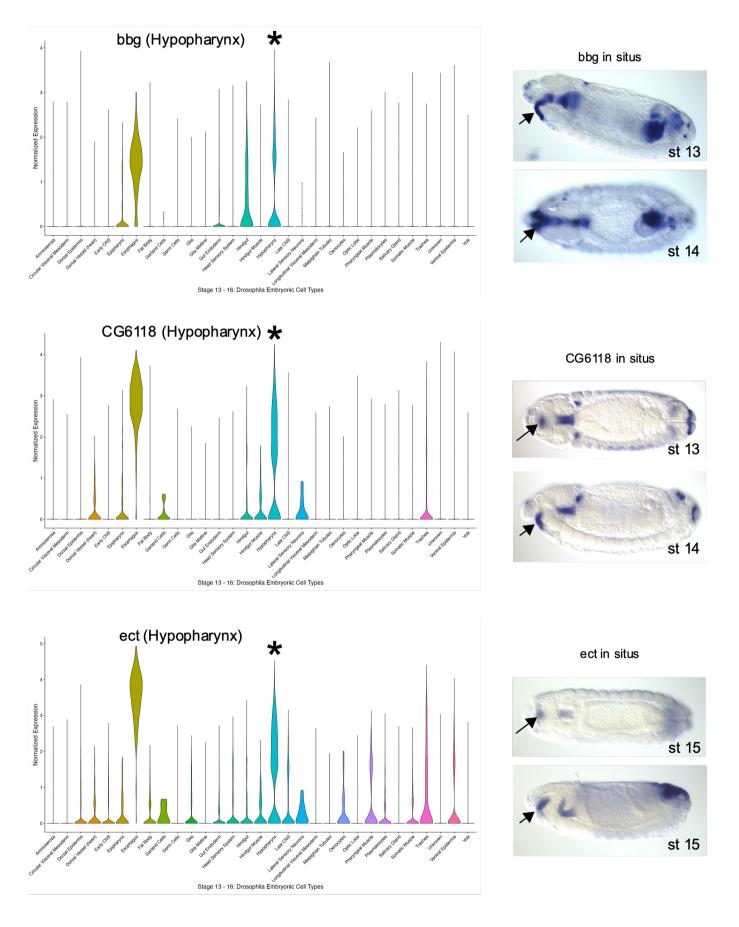
Late Cluster 28 Epipharynx

-./., !5:!"P+)<+,"G<)."'0)," .(/" </5.1"3,8[#],?'+;"+73-/"5 6)7"9CO&"0)," .(/" 6+-(.1)⁵"<3./"/G+G(36A,^{*})736L/6" -/,/["8-+.N'0.)G1N2+'07+88</13',8" R\$@@,9M\$)..)71!"""



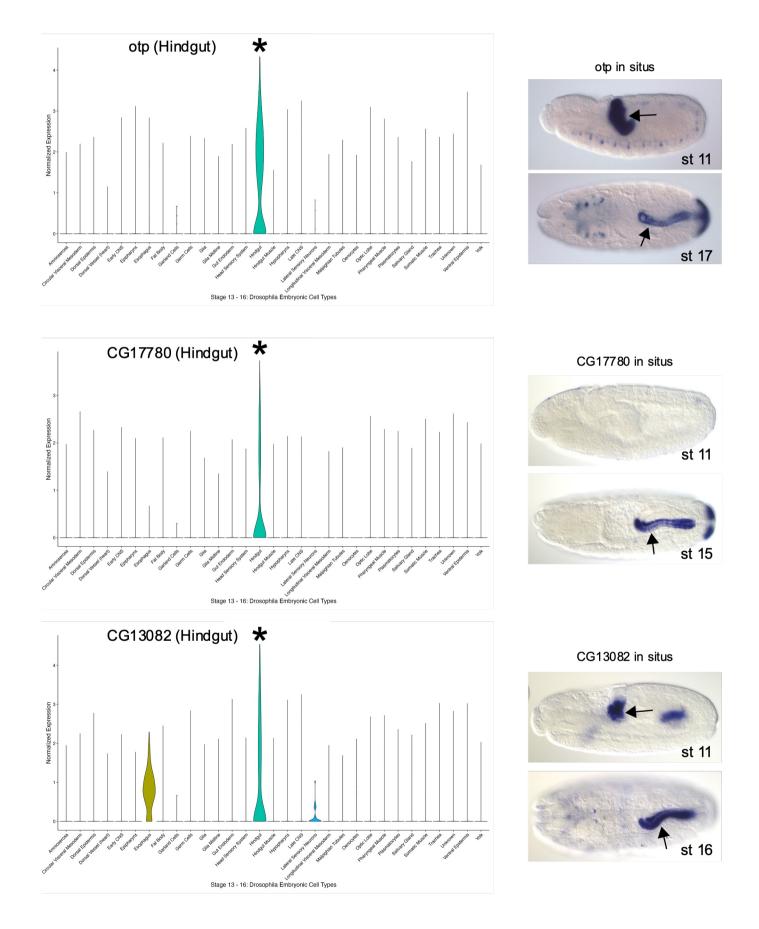
Late Cluster 30 Esophagus

-./., !5;!"P+)<+,"G<)."0)," .(/" </5.1"3,8[#],?'+;'"+73-/"5 6)7"9CO&"0)," .(/" 6+-(.1)5"<3./"/')G(3-;'"736L/6" -/,/[" "7C" 0.)G1**%**!./" 07+88</**/**B,8" 8!.'0> 02)..)71!"""



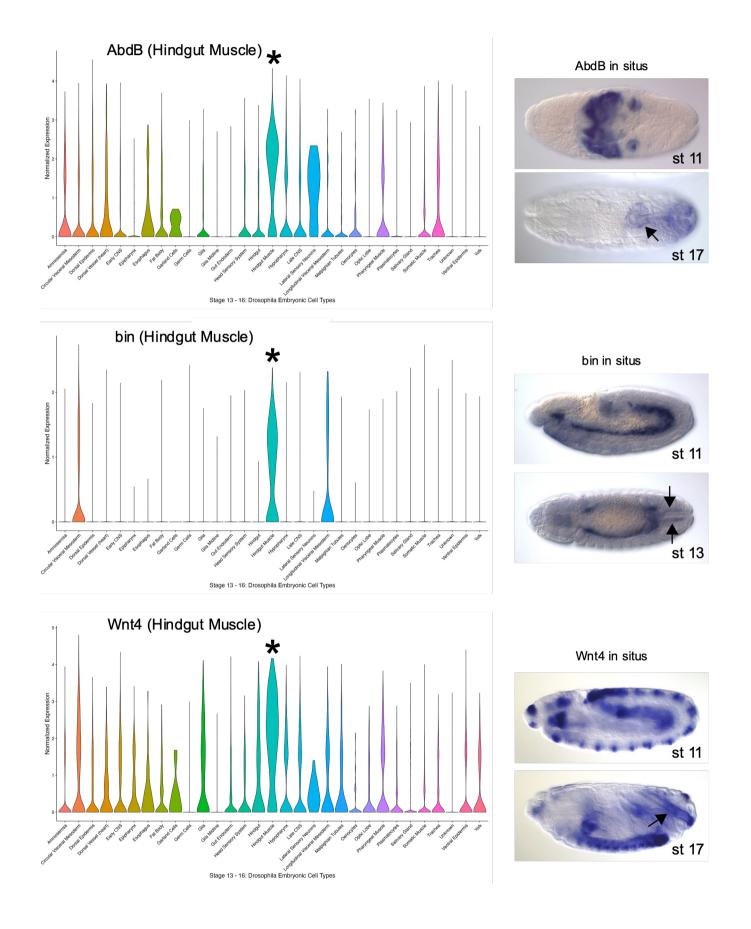
Late Cluster 7 Hypopharynx

-./., !5<!"P+)<+,G<)."0),".(/" </5.1"3,8[#],?'+;"+73-/"5 6)7"9CO&"0),".(/" 6+-(.1)'5"<3./"(AG)G(36A,J'736L/6" -/,/["HH#0.)G11%%%5"Q" 07+88</1"3,8\$<+92)..)71!"""



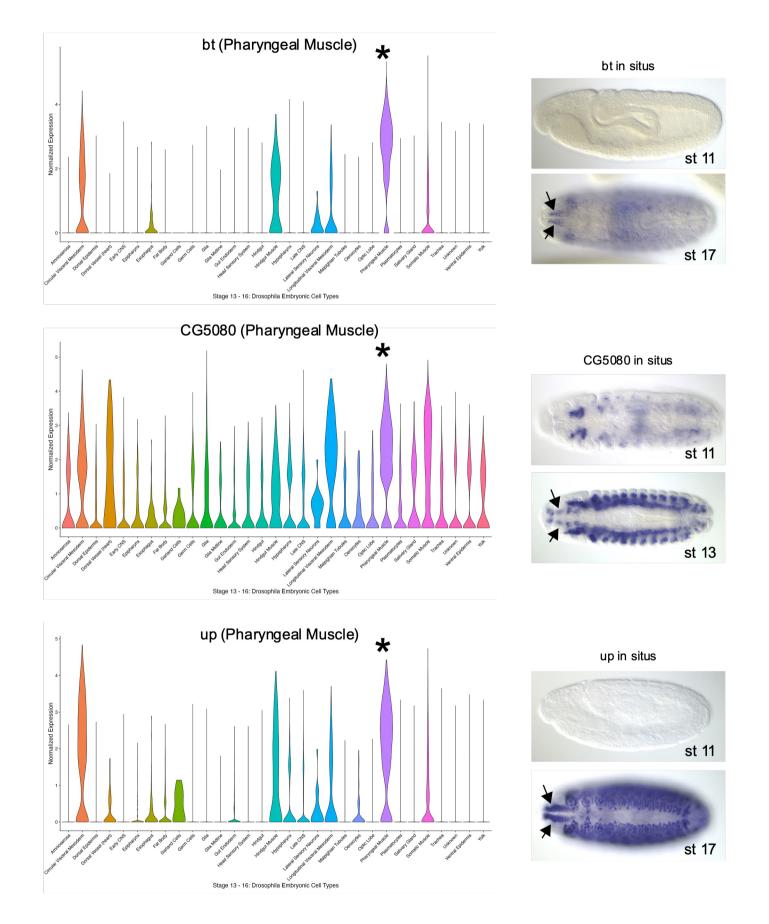
Late Cluster 21 Hindgut

-./., !5=!"P+)<+,G<).''0)," .(/" </5.1"3,8⁺,?'+;'"+73-/"5 6)7"9CO&"0)," .(/" 6+-(.1)'5"<3./"(+,8-;."73 6L/6"/,/'[" ,+-"0.)G1N/%&'//Q:" 07+88</1"3,8%&'(:Q;> 02)..)71!"""



Late Cluster 26 Hindgut Muscle

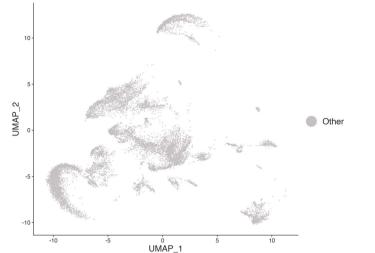
-./., !7>!"P+)<+,G<)."0)," .(/" </5.1"3,8[#],?'+;"+73-/"5 6)7"9CO&"0)," .(/" 6+-(.1)"5"<3./"(+,8-;."7 ;'4</" 736L/6" -/,/[" SHCD0.)G1NT.F07+88</1"3,8TF+0≫02)..)71!"""

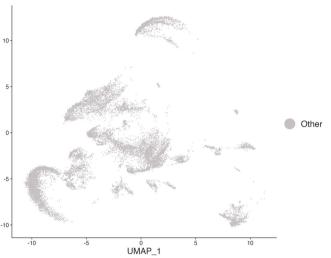


Late Cluster 13 Pharyngeal Muscle

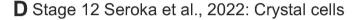
-./., !74!" P+)<+G<).''0),".(/" </5.1"3,8[#],?'+;'"+73-/"5 6)7"9CO&"0),".(/" 6+-(.1)5"<3./"G(36A,-/3<"7;'4</"736L/6" -/,/[" H+0.)G1N%&):Q:" 07+88</1"3,86->02)..)71!"""

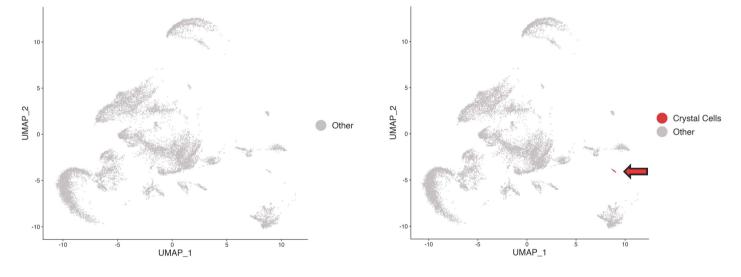






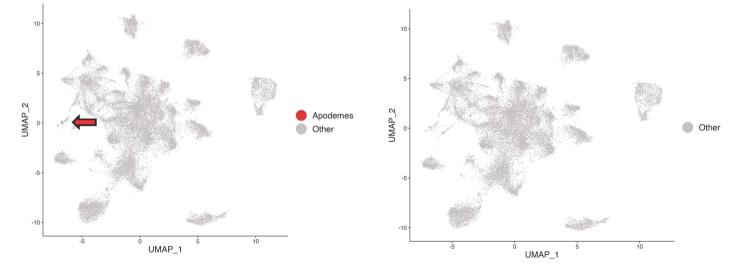
C Stage 12 Seroka et al., 2022: Malpighian tubules D Stage 12 Seroka et al., 2022: Crystal cells



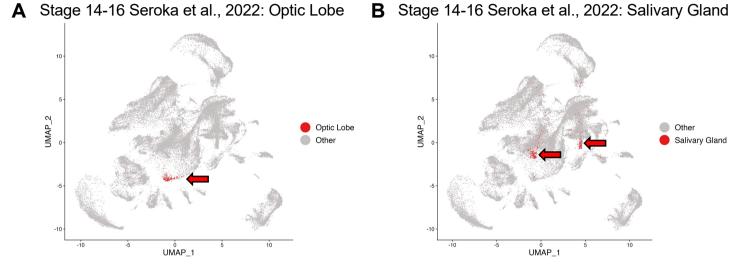


UMAP_2

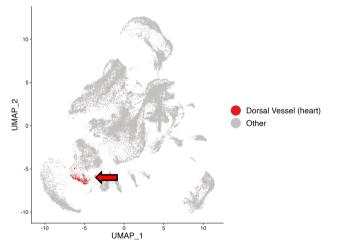
E Stage 10-12 Calderon et al., 2022: Apodemes **F** Stage 10-12 Calderon et al., 2022: Malpighian tubules

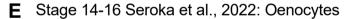


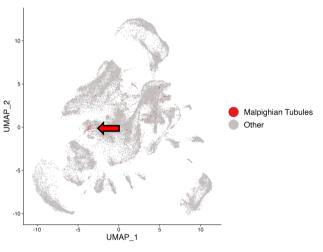
-./., !75!"B<3"+5+43.+),6/';<.")5":+,-</B/<<R/."4<3"+5+/6".63+,/\$",");6"83.3"3,8"3GG<+/8".(/"83.3"56)7" :/6)L3" /." 3<3,8" B3<8/6),"/."3<!#\$%&'" '()*+,-" '.3-/" =@/"726A),+4"4/<<'56)7":/6)L3" /." 3<!(3." 36/" 4<3"+5+/83"" 0% 13'G)8/7/'N "091.'ON'0B1"\$3<G+-(+3;2;</'N"3,8" 0C1"46A'.3<"4/<**#\$%**&'" '()*+,-" '.3-/" =>?=@/726A),+4"4/<<'"6)7" B3<8/6),"/. "3<"(3." 36/"4<3"+5+/83"" 0H1"3G)8/7/" 3,8" 0I1"\$3<G+-(+3,",2;</"!""

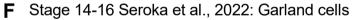


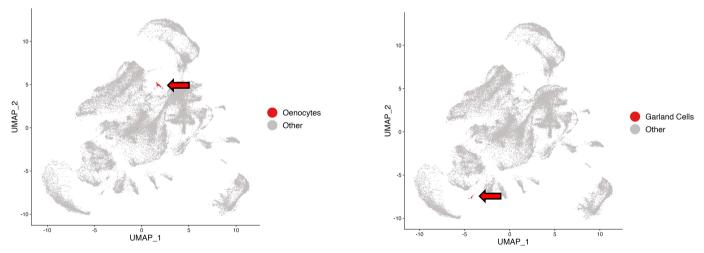




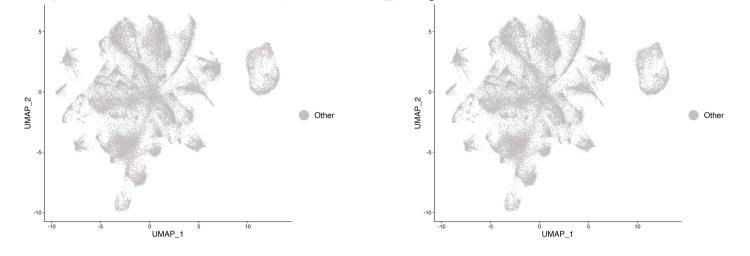








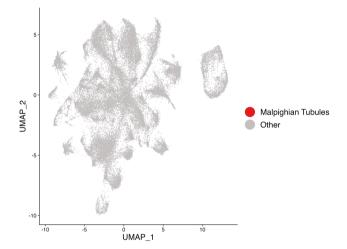
-./., !77!"B<3"+5+43.+),6/';<.'")5":+,-</B/<<R/."4<3"+5+/663+,/8"),");6"83.3"3,8"3GG<+/8".(/"83.3" 56)7":/6)L3"/."3<!\\$%&''''()*+,-"'.3-/" =Z?=E/726A),+4"4/<<'56)7":/6)L3"/."3<!'(3."36/"4<3"+5+/8" 3'"0%1")G.+4)'2/N"091'3<+K36A\3,8N0'B18)6'3<''K/''/<N" 0C1\$3<G+-(+3,:;2;</'N" 0H1")/,)4A./'" 3,8"0I1" -36<3,8"4/<<'!""

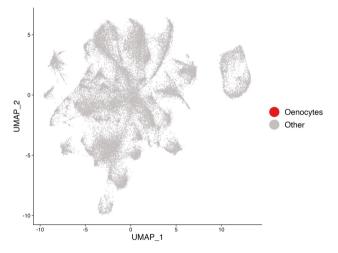


A Stage 14-16 Calderon et al., 2022: Optic Lobe

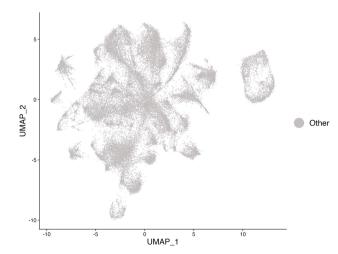
B Stage 14-16 Calderon et al., 2022: Dorsal Vessel

C Stage 14-16 Calderon et al., 2022: Malpighian Tubules **D** Stage 14-16 Calderon et al., 2022: Oenocytes





E Stage 14-16 Calderon et al., 2022: Garland cells



-./., !78!"B<3"+5+43.+),6/';<.")5":+,-</B/<<R/." 4<3"+5+/6".63+,/8");6"83.3"3,8" 3GG<+/8" .(/" 83.3"56)7" B3<8/6),"/."3<!#\$%&''' ()*+,-" '.3-/" =Z?=E/726A),+ 4"4/<<"56)7"B3<8/6),"/." 3<".(3."36/4<3"+5+/83"" 0%")G.+4" <)2/N"098)6'3<"K/''/<N"0B1'\$3<G+-(+3,:;2;</"N"0C1")/,)4A./" 3,8" 0H1-36<3,8"4/<<'!""

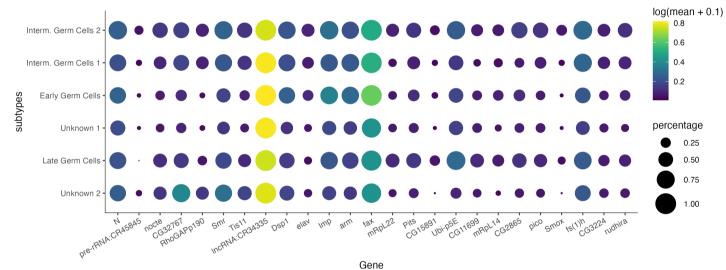
	3L	3R	2L	2R	4	Х
chromosomal	0.77	0.75	0.79	0.80	0.81	0.74
expression ratio)					

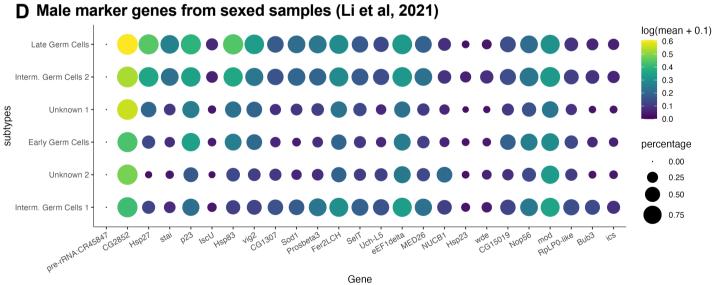
A Average chromosomal expression ratio of Unknown 1 GCs / major trajectory GCs

B Average chromosomal expression ratio of Unknown 2 GCs / major trajectory GCs

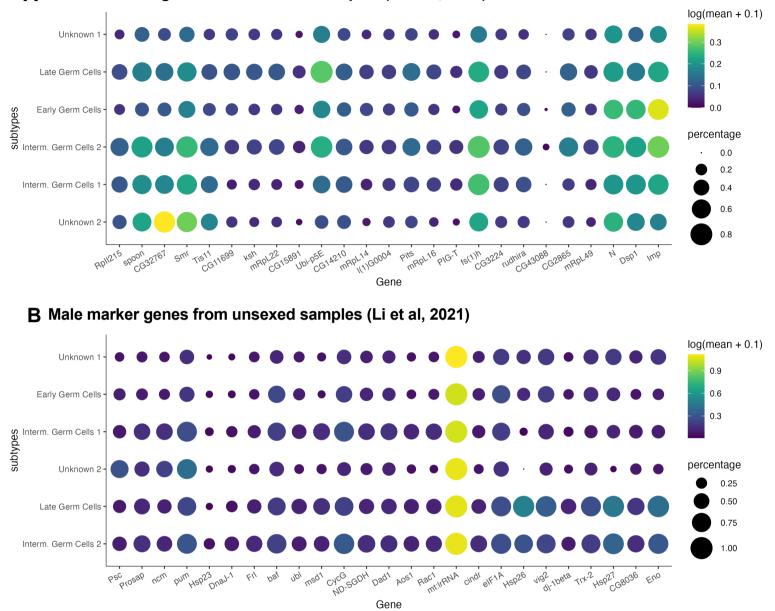
	3L	3R	2L	2R	4	Х
chromosomal	0.89	0.84	0.86	0.88	1	0.85
expression ratio						

C Female marker genes from sexed samples (Li et al, 2021)



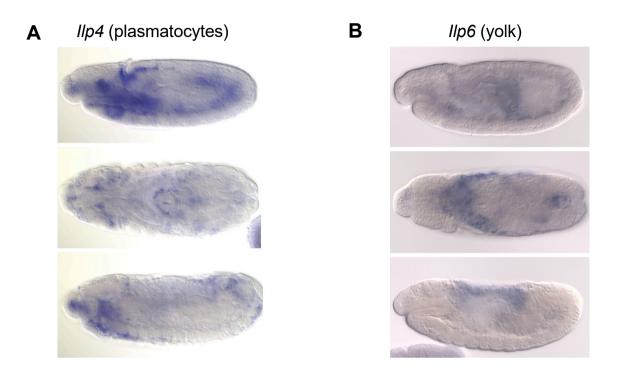


-./., !796, V3.+)")5"3K/63-/" 4(6)7)')73<" /JG6/"+), ")5"0%#",L,)*," ="-/67" 4/<<'")" .(/" 73+,".63S/4.)6A" -/67" 4/<<'0H36<@/67"B/<<'NT,./67!" O/67"B/<<'"=NT,./67!" O/67"B/<<'"@N3./"O/67"B/<<'1"3,8" 091" @-"/67" 4/<<'".)" .(/" 73+," .63S/4.)6A//67" 4/<<'!'C)." G<).")5'0B15/73</"marker genes and (D) #,L,)*," male marker genes derived from sexed samples from Li et al, 2021. The size of the dot represents the percentage of cells in the sub-population expressing the gene and the color of the dot represents the average expression of the gene in the sub-population.



A Female marker genes from unsexed samples (Li et al, 2021)

-./., !7:6, C)."G<).")5"%/61%/53</" 736L/6"-/,/"3 ,8" 091%/3</" 736L/6"-/,/" 8/6+K/856)7";,'/J/8" '37G</" 56)7" U+"/.3<N@>@=!"F(%/Q/")5".(/" 8)."6/G6/'/,." .(/" G/64/,.3-/")5"4/<<'"+,".(/" ';2?G)G;<3.+),"/JG6/"+,-" .(/" -/,/" 3,8" .(/"4)<)6")5".(/"8)."6/G6/'/,." .(/" 3K/63-/"/JG6/"+),")5".(/ "-/,/" +,".(/" ';2?G)G;<3.+),!"



-./., !7;6, R/*<A"3K3+<32◀/,"+.;"+73-/")5"0%"?@-0;8"091?@-5)>*"/JG6/"+)," +,"G<3'73.)4A./"3,8" G6/';7G.+K/"A)<L№"/G/4.+K/<AIR). /".(3."9CO&"43<<?@-5bG6/"+)," 3'"37,+)'/6)'3N",)."A)<L!" ?)@\$%,!4"HJG/6+7/,.3<"8/.3+<'")5726A)"4)<</4.+),' !"

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?)@\$%45!"C+55/6/,.+3<**4**4€G6/"/8" -/,/" 5)6"+,8+K+8;**3**<,"./6'" 6/<3.+K/)"6/'.")5".(/" /726A),+4"4/<\"+," '.3-/" =>?=@3,8"'.3-/" =D?=ᡛ726A)'! >

Available for download at https://journals.biologists.com/dev/article-lookup/doi/10.1242/dev.202097#supplementary-data

?)@\$%7!":/</4./8" 736L/6'"- /,/" 5)6⁺,8+K+8;3⁺<;'./6'" +,".3-/" =>?=[®],8"'.3-/" =D?=^E/726A)'" .(3." 36/"46)''?6/ 5/6/,4/8" *+.("9CO&"5)6"4/<*A*G/"+8/,.+5+43.+),!

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?)@\$%,!8"O:H%"6/';<.'" 5)6"ON".634(/3"3,8" -/67" 4/<<"6/<3.+K'/)"6/'.")5".(/" /726A),+4"4/<<'"+,"".3-/" =>?=@3,8"'.3-/" =D?=E/726A)'!"

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?)@\$%9!"C+55/6/,.+3<**4**\$\$`G6/''/8" -/,/" 5)6":O"';2?G) G;<3.+),'"0/36Å'3,8" <3./":O"4/<<'1"6/<3.+K/)"'3<<").(/6":O"4/<<'!"

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?)@\$%,!:!"O:H%"6/';<.'" 5)68+55/6/,.."O" ';2?G) G;<3.+),'"0/36</&;8" <3./":O" 4/<<'16/<3.+K/)"3<}".(/6" :O" 4/<<'!

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?)@\$%!;!" C+55/6/,.+3<<**A**'G6/"/8" -/,/" 5)6" .634(/3" ';2?G)G;<3.+),'" 0/36<A" .634(/3<" 4/<<'N" +,./67/8+3./".634(/3<"4/<<'N'',8".634(/3<".+@/<<'16/<3.+K/".)"3\$

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?)@\$%;"O:H%" 6/';<.'" 5)6"&55/6/,..'634(/3"';2?G)G;<3.+);"0/36<A634(/3<'4/<<'N"+,./67/8+3./" .634(/3<'4/<<'N"3.8'634(/3<".+G4/<<'1"6/<3.+K/**"**3<}:'(/6".634(/3<" 4/<<'!"

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?)@\$%,"C+55/6/,.+3<**4**C6/''/8" -/,/" 5)6"-/67"4/<<'";2?G)G;<3.+),'" 0/36<A/67" 4/<<'N",./67/8+3./" -/67" 4/<<''@N3./"-/67" 4/<<'N";,L,)*," ="3,8";,L,)*,"2) relative to all other germ cells.

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?)@\$%4>."O:H%"6/' ;<.'"5)6"-/67"4/<<"';2?G)G;<3.+),'" 0/36<A"-/67"4/<4\"+,./67/8+3./"-/67" 4/<<'"=N" +,./67/8+3./"-/67"4/<<'"@N"<3./"-/67"4/<<'\";,L,)*,"="3,8";,L,)*,"@1"6/<3.+K/".)"3<<").(/6"- /67"4/<<'!"

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?)@\$%44!"F(/" 3K/63-/" /JG6/"+)," 3,8" 4/<€/64/,." /JG6/' '+),")5"3<₹3.6+')7/"- /,/" '()*,"+," I+-;6/" E%N#>%N!=@'5)6"8+55/6/,."/**4**<"AG/"+," .3-/" =>?=@726A)'!"

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?)@\$%45!"F(/" 3K/63-/" /JG6/"+)," 3,8" 4/<<€/64/,."/JG6/"+),")5"3<₹3.6+')7/" -/,/" '()*," +,"I+-;6/" E9N"=>9N":=D"5)6"8+55/6/,."4/<ÆG/" +,".3-/" =D?=₽726A)'!"

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?)@\$%,47!"B/<<".AG/"(367),+Q3.+),"5)6":/6)L3"/."3<N"B3<8/6),"/."3<"3,8".(+'"'.;8A"

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