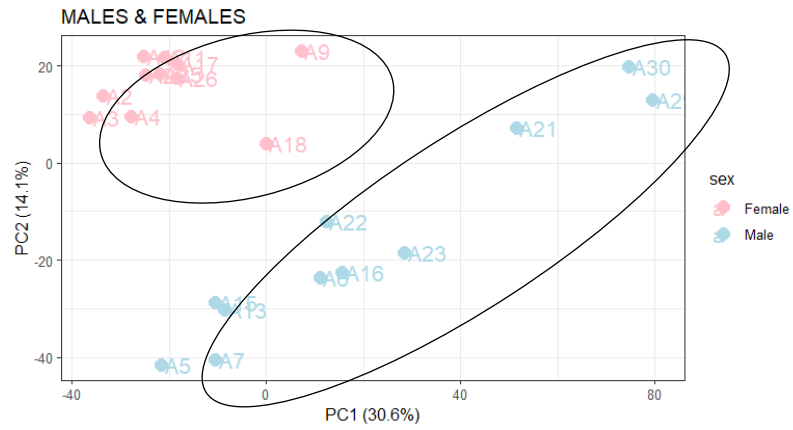


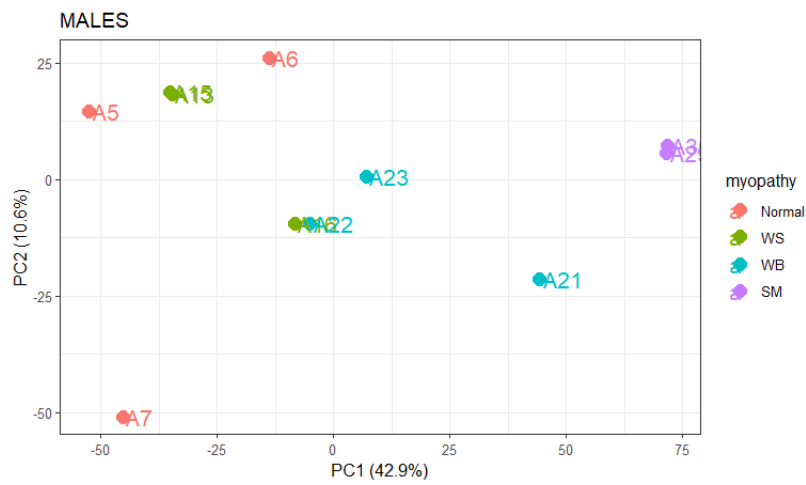
Supplementary Table 1. Synthesized and analyzed libraries in the RNA-seq study.

Sample label	Sex	Myopathies	Number of raw reads	Number of clean reads	Number of pseudoaligned reads	Percentage of pseudoaligned reads
A2	F	Normal	21,932,683	20,966,001	16,514,108	75,29%
A3	F	Normal	21,672,087	20,626,887	16,463,925	75,97%
A4	F	Normal	26,873,802	25,530,497	20,447,302	76,09%
A5	M	Normal	21,002,192	19,933,417	15,802,951	75,24%
A6	M	Normal	20,388,184	19,292,707	15,305,109	75,07%
A7	M	Normal	21,297,772	20,134,455	16,120,751	75,69%
A9	F	WS	22,095,113	20,993,033	16,811,033	76,08%
A11	F	WS	19,905,269	18,937,478	15,094,297	75,83%
A12	F	WS	23,651,118	22,509,612	17,883,513	75,61%
A13	M	WS	23,238,769	22,116,005	17,609,016	75,77%
A15	M	WS	19,949,668	18,958,752	15,119,757	75,79%
A16	M	WS	27,436,222	25,894,322	20,683,362	75,39%
A17	F	WB	20,955,572	20,045,585	15,910,285	75,92%
A18	F	WB	19,915,471	18,868,882	15,088,366	75,76%
A21	M	WB	22,160,911	21,158,908	17,219,295	77,70%
A22	M	WB	21,486,126	20,451,033	16,299,358	75,86%
A23	M	WB	21,752,868	20,656,322	16,588,781	76,26%
A25	F	SM	20,386,976	19,432,105	15,489,646	75,98%
A26	F	SM	20,659,277	19,757,380	15,879,969	76,87%
A28	F	SM	22,674,349	21,489,425	17,239,426	76,03%
A29	M	SM	22,440,896	21,403,649	17,694,310	78,85%
A30	M	SM	23,548,250	22,273,774	18,134,381	77,01%

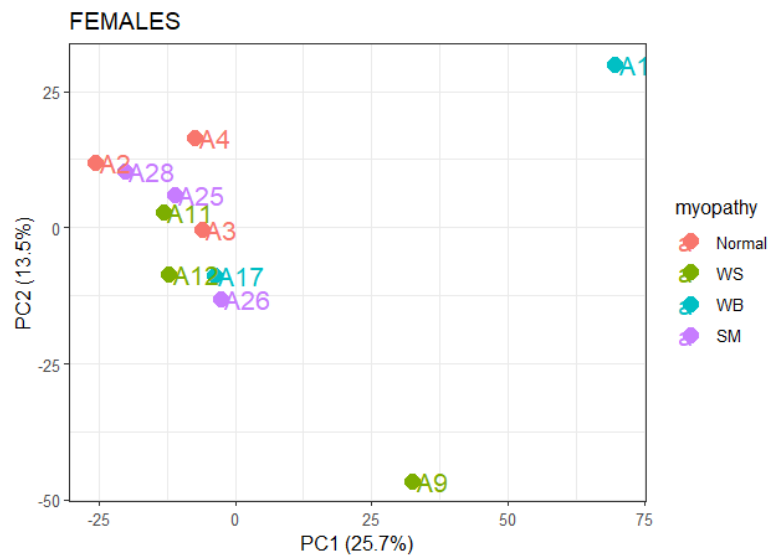
The table reports for each library the sex of the bird from which *p. major* muscle was collected (F: female; M: male), their myopathy (N: normal, no myopathy; WS: white striping; WB: wooden breast; SM: spaghetti meat), the number of raw reads sequenced, the number of clean reads (i.e., passing the quality-check), the number of reads pseudaligned (using kallisto pseudoaligner) against the reference genome, and the percentage of percentage of pseudoaligned reads.



(a)

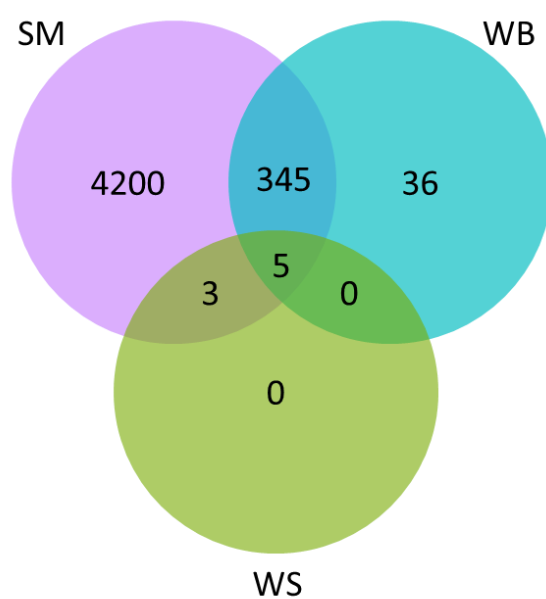


(b)



(c)

Supplementary Figure 1. Principal Component Analysis. Principal Component Analysis (PCA) conducted on both male and female (a), male (b) and female (c) gene expression profiles. WS: white striping, WB: wooden breast, SM: spaghetti meat, Normal: no myopathies



Supplementary Figure 2. Shared DEGs. Venn diagram showing shared DEGs between the following pairwise comparisons: white striping (WS) *versus* normal breast, wooden breast (WB) *versus* normal breast, and spaghetti meat (SM) *versus* normal breast.