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Identification of *Pasteurella multocida* transcribed genes in porcine lungs through RNAseq

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ACCEPTED MANUSCRIPT

1	IDENTIFICATION OF Pasteurella multocida TRANSCRIBED GENES IN
2	PORCINE LUNGS THROUGH RNAseq
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14	ABSTRACT
15	Pasteurella multocida is one of the most important pathogen that causes pneumonia in
16	swine. Although several virulence factors are known, the pathogenesis of this bacterium
17	is not well-studied. Therefore, to study the pathogenesis of P. multocida infection in
18	porcine lung, next-generation RNA sequencing was used to compare the transcriptomes
19	of P. multocida grown in vivo and in vitro, respectively. After P. multocida infection a
20	total of 704 genes were expressed in vitro, 1422 genes were expressed in vivo, and 237
21	genes were differentially expressed based on statistical analyses, padj of ≤0.1. Genes
22	encoding ribosomal proteins or other products that function in the regulation of
23	transcription and translation were downregulated, whereas genes whose products affected

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