

**Table S3. Pearson correlation coefficients (r) of mRNA expression levels of PCOS-candidate genes and gestational age in less than 150 day bovine fetal ovaries (n = 27).**

	Age	<i>FBN3</i>	<i>GATA4</i>	<i>HMGA2</i>	<i>TOX3</i>	<i>LHCG R</i>	<i>FSHB</i>	<i>DENND1 A.X12,3,4</i>	<i>C8H9o rf3</i>	<i>RAB5B</i>	<i>ERBB4</i>	<i>YAPI</i>	<i>SUOX</i>	<i>RAD50</i>	<i>THADA</i>	<i>KRR I</i>	<i>INSR</i>	<i>FSH R</i>	<i>AMH</i>	<i>AR</i>	
<i>FBN3</i>	-0.675 <sup>a</sup>																				
<i>GATA4</i>	-0.650 <sup>a</sup>	0.920 <sup>d</sup>																			
<i>HMGA2</i>	-0.651 <sup>a</sup>	0.850 <sup>c</sup>	0.802 <sup>b</sup>																		
<i>TOX3</i>	0.223	0.119	0.219	0.021																	
<i>LHCGR</i>	-0.922 <sup>d</sup>	0.609 <sup>a</sup>	0.719 <sup>a</sup>	0.651 <sup>a</sup>	-0.126																
<i>FSHB (PPEx3)</i>	-0.530	0.515	0.679 <sup>a</sup>	0.688 <sup>a</sup>	0.059	0.730 <sup>a</sup>															
<i>DENNDIA. X1,2,3,4</i>	-0.165	0.641 <sup>a</sup>	0.708 <sup>a</sup>	0.591	0.502	0.295	0.518														
<i>C8H9orf3</i>	-0.163	0.723 <sup>a</sup>	0.572	0.536	0.168	0.006	0.128	0.569													
<i>RAB5B</i>	0.592	-0.325	-0.216	-0.231	0.375	-0.504	-0.314	0.088	-0.095												
<i>ERBB4</i>	0.426	-0.266	-0.237	-0.049	0.287	-0.412	-0.045	-0.047	-0.038	0.758 <sup>b</sup>											
<i>YAPI</i>	-0.064	0.617 <sup>a</sup>	0.671 <sup>a</sup>	0.632 <sup>a</sup>	0.553	0.159	0.448	0.607 <sup>a</sup>	0.501	0.324	0.335										
<i>SUOX</i>	-0.253	0.821 <sup>b</sup>	0.819 <sup>b</sup>	0.761 <sup>b</sup>	0.491	0.300	0.424	0.817 <sup>b</sup>	0.720 <sup>a</sup>	0.048	-0.027	0.841 <sup>b</sup>									
<i>RAD50</i>	0.237	0.043	0.0510	0.118	0.473	-0.247	0.014	0.048	0.092	0.679 <sup>a</sup>	0.872 <sup>c</sup>	0.628 <sup>a</sup>	0.234								
<i>THADA</i>	-0.189	0.139	0.104	0.436	0.242	0.222	0.420	0.172	-0.158	0.225	0.600	0.389	0.159	0.629 <sup>a</sup>							
<i>KRR1</i>	0.392	-0.081	-0.155	0.146	0.460	-0.355	0.151	0.180	0.017	0.385	0.688 <sup>a</sup>	0.489	0.192	0.695 <sup>a</sup>	0.740 <sup>b</sup>						
<i>INSR</i>	0.764 <sup>b</sup>	-0.114	-0.165	-0.245	0.387	-0.773 <sup>b</sup>	-0.323	0.208	0.469	0.393	0.289	0.333	0.256	0.276	-0.287	0.385					
<i>FSHR</i>	0.276	0.418	0.381	0.155	0.570	-0.291	-0.183	0.565	0.661 <sup>a</sup>	0.316	-0.030	0.625a	0.708a	0.217	-0.281	0.119	0.707 <sup>a</sup>				
<i>AMH</i>	0.719 <sup>a</sup>	-0.615 <sup>a</sup>	-0.458	-0.453	0.327	-0.470	-0.050	-0.014	-0.435	0.237	0.100	-0.034	-0.188	-0.047	-0.065	0.385	0.434	0.064			
<i>AR</i>	0.939 <sup>d</sup>	-0.584	-0.561	-0.520	0.133	-0.811 <sup>b</sup>	-0.319	-0.051	-0.139	0.377	0.266	-0.054	-0.186	0.064	-0.178	0.417	0.742 <sup>b</sup>	0.224	0.811 <sup>b</sup>		
<i>TGFβIII</i>	0.951 <sup>d</sup>	-0.456	-0.411	-0.488	0.371	-0.848 <sup>c</sup>	-0.404	0.088	0.071	0.553	0.344	0.132	0.019	0.216	-0.261	0.372	0.887 <sup>c</sup>	0.504	0.707 <sup>a</sup>	0.921 <sup>d</sup>	

<sup>a</sup>  $P < 0.05$ , <sup>b</sup>  $P < 0.01$ , <sup>c</sup>  $P < 0.001$ , <sup>d</sup>  $P < 0.0001$