Table S5 Functional classification of DEGs using PANTHER ontologies. Enriched biological processes separating sirolimus from vehicle group as derived on the level of differential gene expression by SAM. Categories are ranked by the p-value (comparison of expected number of genes and observed number of genes in each biological process) indicating the relevance of a particular process.

Enriched Biological Processes			
-			
down vogulated games by Siralinava tweetment			
down-regulated genes by Sirolimus treatment number of genes			
biological process	(n=76)	p-value	
response to stimulus	21	<0.001	
immune system process	23	<0.001	
lipid metabolic process	13	<0.001	
immune response	11	<0.001	
cellular process	35	<0.001	
anion transport	4	0.001	
cell cycle	14	0.003	
Transport	18	0.003	
B cell mediated immunity	6	0.004	
Mitosis	7	0.005	
cellular amino acid and derivative			
metabolic process	5	0.006	
metabolic process	40	0.008	
cellular defense response	6	0.009	
cellular component morphogenesis	9	0.014	
anatomical structure morphogenesis	9	0.014	
complement activation	3	0.015	
signal transduction	22	0.016	
developmental process	17	0.017	
primary metabolic process	37	0.020	
cell communication	22	0.024	
vitamin metabolic process	2	0.027	
induction of apoptosis	4	0.027	
ion transport	6	0.028	
defense response to bacterium	2	0.028	
vitamin transport	2	0.035	
coenzyme metabolic process	2	0.036	
Cytokinesis	3	0.039	
cell-cell signaling	8	0.040	
chromosome segregation	3	0.042	

up-regulated genes by Sirolimus treatment			
biological process	number of genes (n=8)	p-value	
response to external stimulus	3	<0.001	
blood coagulation	3	<0.001	
response to stimulus	4	0.005	
immune system process	4	0.011	
regulation of biological process	1	0.020	
regulation of vasoconstriction	1	0.020	
anion transport	1	0.046	

According to PANTHER classification down-regulated transcripts belong to response to stimulus, metabolic processes, immune system, transport and signal transduction. Up-regulated transcripts belong also to response to stimulus, immune system and transport but also to blood coagulation and regulation of vasoconstriction (table S2).