

### Supplementary Figure 3

#### Downregulated DEGs

<b>Top Canonical Pathways</b>	<b>p-Value</b>
Superpathway of Cholesterol Biosynthesis	1.83E-06
Cholesterol Biosynthesis I	5.64E-05
Cholesterol Biosynthesis II	5.64E-05
Cholesterol Biosynthesis III	5.64E-05
Hepatic Fibrosis	5.16E-04
<b>Top Diseases and Disorders</b>	<b>p-Value</b>
Inflammatory Disease	2.63E-03-3.17E-08
Inflammatory Response	1.91E-03-3.17E-08
Organismal Injury and Abnormalities	2.63E-03-3.17E-08
Renal and Urological Disease	2.63E-03-3.17E-08
Dermatological Diseases and Conditions	1.75E-03-1.07E-07
<b>“Activated” Upstream Regulators</b>	<b>p-Value</b>
Arsenic trioxide	4.36E-08
Beta-estradiol	1.23E-07
DICER1	1.80E-07
cholesterol	2.94E-07
Lysophosphatidic acid	3.02E-07

Supplementary Figure 3 shows IPA Core Analysis Results for DEGs (18) identified as downregulated in the ALS group by all three analyses.