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| **Table S1. Characteristics of studies composing the LPS-induced ALI gene expression compendium.** |
| **GEO Dataset** | **Samples used in this study** | **Seq Platform** |
| GSE102016 | GSM2721962 | Mouse lung control, biological rep 1 | Affymetrix Mouse Gene 1.1 ST Array  |
| GSM2721963 | Mouse lung control, biological rep 2 |
| GSM2721964 | Mouse lung control, biological rep 3 |
| GSM2721965 | Mouse lung LPS, biological rep 1 |
| GSM2721966 | Mouse lung LPS, biological rep 2 |
| GSM2721967 | Mouse lung LPS, biological rep 3 |
| GSM2721968 | Mouse lung LPS, biological rep 4 |
| GSE104214  | GSM2792637 | C57BL/6 8H WT1 | Agilent-028005 SurePrint G3 Mouse GE 8x60K Microarray |
| GSM2792638 | C57BL/6 8H WT2 |
| GSM2792639 | C57BL/6 8H WT3 |
| GSM2792640 | C57BL/6 8H WT4 |
| GSM2792641 | C57BL/6 8H WT5 |
| GSM2792642 | C57BL/6 8H WT6 |
| GSM2792648 | C57BL/6 24H WT1 |
| GSM2792649 | C57BL/6 24H WT2 |
| GSM2792650 | C57BL/6 24H WT3 |
| GSM2792651 | C57BL/6 24H WT4 |
| GSM2792652 | C57BL/6 24H WT5 |
| GSM2792659 | C57BL/6 CTRL WT1 |
| GSM2792660 | C57BL/6 CTRL WT2 |
| GSM2792661 | C57BL/6 CTRL WT3 |
| GSM2792662 | C57BL/6 CTRL WT4 |
| GSM2792663 | C57BL/6 CTRL WT5 |
| GSM2792664 | C57BL/6 CTRL WT6 |
| GSE2411 | GSM45427 | Control 1 |  Affymetrix Mouse Expression 430A Array |
| GSM45428 | Control 2 |
| GSM45429 | Control 3 |
| GSM45430 | Control 4 |
| GSM45431 | Control 5 |
| GSM45432 | Control 6 |
| GSM45439 | LPS 1 |
| GSM45440 | LPS 2 |
| GSM45441 | LPS 3 |
| GSM45442 | LPS 4 |
| GSM45443 | LPS 5 |
| GSM45444 | LPS 6 |
| GSE16409 | GSM412476 | Wild-type, Control, Replicate 1 | Duke-GE/Amersham CodeLink UniSet Mouse 20K I Bioarray |
| GSM412477 | Wild-type, Control, Replicate 2 |
| GSM412478 | Wild-type, Control, Replicate 3 |
| GSM412479 | Wild-type, 1.5 hours post LPS, Replicate 1 |
| GSM412480 | Wild-type, 1.5 hours post LPS, Replicate 2 |
| GSM412481 | Wild-type, 1.5 hours post LPS, Replicate 3 |
| GSM412482 | Wild-type, 6 hours post LPS, Replicate 1 |
| GSM412483 | Wild-type, 6 hours post LPS, Replicate 2 |
| GSM412484 | Wild-type, 6 hours post LPS, Replicate 3 |
| GSM412485 | Wild-type, 12 hours post LPS, Replicate 1 |
| GSM412486 | Wild-type, 12 hours post LPS, Replicate 2 |
| GSM412487 | Wild-type, 12 hours post LPS, Replicate 3 |
| GSE18341 | GSM457845 | lung\_21 day old, untreated, spontaneously breathing control\_rep1 | Affymetrix Mouse Genome 430 2.0 Array |
| GSM457846 | lung\_21 day old, untreated, spontaneously breathing control\_rep2 |
| GSM457847 | lung\_21 day old, untreated, spontaneously breathing control\_rep3 |
| GSM457848 | lung\_21 day old, untreated, spontaneously breathing control\_rep4 |
| GSM457852 | lung\_21 day old, treated with inhaled LPS, then spontaneous breathing for 2 hr\_rep1 |
| GSM457853 | lung\_21 day old, treated with inhaled LPS, then spontaneous breathing for 2 hr\_rep2 |
| GSM457854 | lung\_21 day old, treated with inhaled LPS, then spontaneous breathing for 2 hr\_rep3 |
| GSM457855 | lung\_21 day old, treated with inhaled LPS, then spontaneous breathing for 2 hr\_rep4 |
| GSM457859 | lung\_16 week old, untreated, spontaneously breathing control\_rep1 |
| GSM457860 | lung\_16 week old, untreated, spontaneously breathing control\_rep2 |
| GSM457861 | lung\_16 week old, untreated, spontaneously breathing control\_rep3 |
| GSM457862 | lung\_16 week old, untreated, spontaneously breathing control\_rep4 |
| GSM457867 | lung\_16 week old, treated with inhaled LPS, then spontaneous breathing for 2 hr\_rep1 |
| GSM457868 | lung\_16 week old, treated with inhaled LPS, then spontaneous breathing for 2 hr\_rep2 |
| GSM457869 | lung\_16 week old, treated with inhaled LPS, then spontaneous breathing for 2 hr\_rep3 |
| GSM457870 | lung\_16 week old, treated with inhaled LPS, then spontaneous breathing for 2 hr\_rep4 |