cercariae of *S. japonicum*

**GSE59276**

**GSE61376**

- up-regulated LCN2 expression
- immune subtype

**LCN2 location**
- LCN2 expression
- inflammatory cytokines expression
- Correlation between LCN2 and cytokines

**Pathway inhibitor**
- siLCN2

- LCN2 expression
- inflammatory cytokines expression

**NF-κB signaling pathway**
- NF-κB signaling pathway
- inflammatory cytokines expression

- Macrophage polarization

**SWa**
**LCN2**

### Relative expression of mRNA

|          | control | SEA   | SWA   |
|----------|---------|-------|-------|
| Relative |         |       |       |
| expression| 100     | 150   | 200   |

### Relative protein levels

|          | control | SEA   | SWA   |
|----------|---------|-------|-------|
| Relative |         |       |       |
| protein  | 0.0     | 0.5   | 2.0   |

**Abbreviations:**
- LCN2: Lipocalin 2
- SEA: Specificity Enhancer of Activated T Cells
- SWA: Specificity Enhancer of Activated Macrophages
- GD: Glucorticoid Receptor

**Notes:**
- The asterisks indicate statistical significance: *** denotes p < 0.001.