Inhibition of LSD1 phosphorylation alleviates colitis symptoms induced by dextran sulfate sodium

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Running title: Roles of LSD1 in DSS-induced colitis

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**Supplementary table 1. Disease activity index (DAI) scoring.** DAI scoring of acute colitis was performed based on the weight loss, stool consistency, and stool blood, which was adapted from the previous publication (Cooper et al., 1993).

| weight loss | 0: none  
|            | 1: 1-5%  
|            | 2: 6-10% 
|            | 3: 11-18% 
|            | 4: >18%  
| stool consistency | 0: normal 
|                  | 1: soft but still formed 
|                  | 2: soft 
|                  | 3: wet 
|                  | 4: watery diarrhea 
| stool blood     | 0: negative 
|                | 1: positive and red 
|                | 2: positive and black 
|                | 3: blood traces in stool visible 
|                | 4: rectal bleeding 

Cooper HS, Murthy SN, Shah RS and Sedergran DJ (1993) Clinicopathologic study of dextran sulfate sodium experimental murine colitis. Lab Invest 69, 238-249
Supplementary table 2. Scoring indicator for histological analysis. Histological scores were measured based on the following criteria; the mucosal hyperemia, surface epithelium loss, and crypt damage in H&E stained sections.

| mucosal hyperemia | 0: none                  |
|-------------------|--------------------------|
|                   | 1: mild                  |
|                   | 2: moderate              |
|                   | 3: Severe                |

| surface epithelium loss | 0: none                        |
|-------------------------|--------------------------------|
|                         | 1: 0%-10% loss                |
|                         | 2: 10%-20% loss               |
|                         | 3: over 20% loss              |

| crypt damage | 0: none                   |
|--------------|---------------------------|
|              | 1: 0%-10% loss            |
|              | 2: 10%-20% loss           |
|              | 3: over 20% loss          |
Supplementary table 3. Primers used for quantitative RT-PCR of mouse mRNAs

|      | Primers (FW/ RV)                                      |
|------|-------------------------------------------------------|
| **IL-1β** | 5’-GATGATAACCTGCTGGTGTGTGA-3’ (FW)  
                   | 5’-GTTGT TCATCTCGAGCCTGTAG-3’ (RV) |
| **IL-6**  | 5’-CATAAAATAGTCCTTCTACCCCAAT-3’ (FW)  
                   | 5’-CACTCCTTCTGTGACTCCAGCTTA-3’ (RV) |
| **IL-8**  | 5’-TGTCCTCACAAGTGCAAGAAA-3’ (FW)  
                   | 5’-TGTCAGAAGCCAGCGTTAC-3’ (RV) |
| **Cyclophilin** | 5’-ATGGTCAACCCC ACCGTGT-3’ (FW)  
                   | 5’-TGCTGTCTTTGGAACCTTTGTC-3’ (RV) |