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Estrogen signaling deregulation related with local immune response modulation in irritable bowel syndrome

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1 **Estrogen signaling deregulation related with local immune response**  
2 **modulation in irritable bowel syndrome**

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20 **Abstract**

21 The etiology and pathogenesis underlying irritable bowel syndrome (IBS), a common  
22 gastrointestinal disorder are still unclear. Cumulating data suggest dysregulation of

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