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Expression of bone morphogenetic protein 2, 4, and related components of the BMP signaling pathway in the mouse uterus during the estrous cycle

Key words: BMP, BMP receptor, Smad, Uterus, Estrous cycle

Research Summary

This article mainly focused on the mRNA expression patterns of BMP 2, 4 and components of the signaling pathway, and summarized the key roles they played in the following aspects:

- **Degradation and remodeling of the endometrium**

- **Cyclic changes in the endometrium**

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Innovation points

●Providing highly novel information regarding the expression of Bmp2 and Bmp4 members of the BMP family and components of the signaling pathway at the mRNA level in the mouse uterus during the estrous cycle.

●Summary of differential contribution of three murine BMP receptors to the control of growth and development of endometrium during the estrous cycle.

●With special emphasis on the roles of Smad1 and Smad5 in all three subtypes of Smads

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