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HucMSC-Ex alleviates inflammatory bowel disease via the lnc78583-mediated miR3202/HOXB13 pathway

Keywords: Inflammatory bowel disease, mesenchymal stem cellderived exosome, long non-coding RNAs, homeobox B13, mir3202

Research Summary

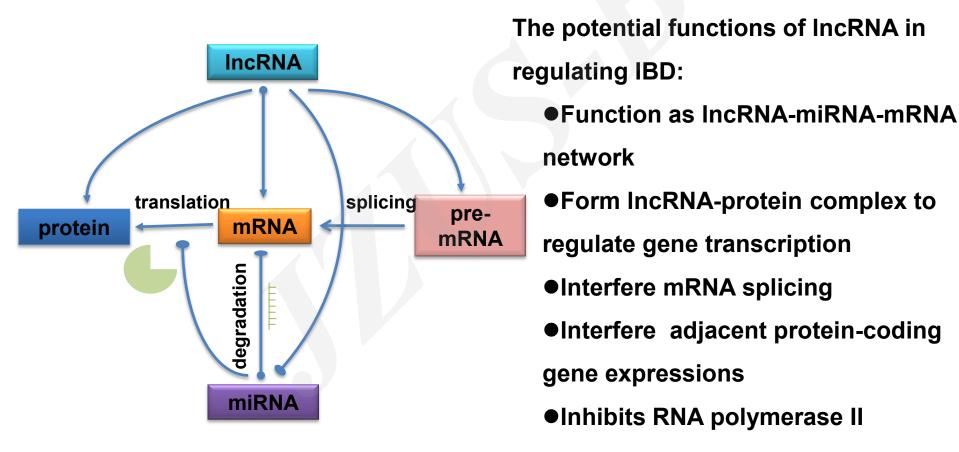
This correspondence mainly focused on a novel IncRNAs involved in inflammatory bowel disease (IBD) and the research was performed from the following parts:



- Determination of differentially expressed IncRNAs and mRNAs in IBD versus health control tissues
- Verification of screened novel IncRNAs
- Protective effects of Inc78583 on LPS induced FHC inflammation through targeting HOXB13
- HucMSC-Ex alleviated LPS induced FHC inflammation through Inc78583/HOXB13
- Sponge function of miR3202 for Inc78583 and HOXB13

Innovation points

LncRNAs are tissue-specific and organ-specific, which can regulate gene expression at multiple levels.



Innovation points

Key findings in our research

- Lnc78583 protects IBD through negtively mediating
 HOXB13
- HucMSC-Ex regulates
 Inc78583/HOXB13 pathway
- MiR3202 plays functional role between Inc78583 and HOXB13

