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**LncRNA MIAT facilitated BM-MSCs differentiation into endothelial cells and restored  
erectile dysfunction via targeting miR-200a in a rat model of erectile dysfunction**

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Running title: the underlying role of LncRNA MIAT in ED

**Abstract**

**Background** Bone-marrow derived mesenchymal stem cells (BM-MSCs) implantation effectively restored rats' erectile dysfunction (ED). Long noncoding RNA (LncRNA)-myocardial infarction-associated transcript (MIAT) has been reported to play an important role in regulating endothelial cells (ECs) function via vascular endothelial growth factor (VEGF) that induced BM-MSCs differentiation into ECs. However, the molecular functions and biological roles of LncRNA MIAT in ED remained unclear.

**Methods** The rat model of ED was established. Quantitative real-time PCR (qRT-PCR) and

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