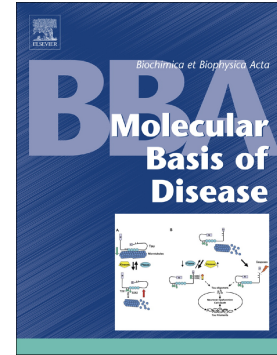


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**Hrd1 induces cardiomyocyte apoptosis via regulating the degradation of IGF-1R  
by sema3a**

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**Running title:** Hrd1 and cardiomyocytes

**Abstract**

**Objective:** To explore the underlying mechanisms of Hrd1/sema3a/IGF-1R on cardiomyocyte apoptosis. **Methods:** AMI model was established by the left-anterior descending coronary artery (LAD) ligation. The expressions of Hrd1, sema3a and IGF-1R were examined by western blot. The activity of caspase-3 and caspase-8 was measured using corresponding activity detection kit. Cardiomyocyte apoptosis was detected by flow cytometry assay. Co-immunoprecipitation and ubiquitination assay were used to test the relationship among Hrd1, sema3a and IGF-1R. **Results:** Hrd1 expression and the activity of caspase-3 and caspase-8 was increased in cardiac tissues of AMI rats and hypoxia-induced cardiomyocytes, while IGF-1R expression was decreased. Hrd1

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