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10.12201/bmr.202606.00080V1

1基金项目：广西自然科学基金面上项目（2025GXNSFAA069400） 作者单位：530001 广西中医药大学第一临床医学院（喻鑫荣、全宇婷）； 530023 广西中医药大学第一附属医院心血管内科二区（林琳）  
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[REDACTED]

[REDACTED]

[REDACTED] 依赖途径中，生理状态下 Nrf2 被 Keap1 结合泛素降解；氧化应激时 [REDACTED]

[REDACTED]

[REDACTED]

[REDACTED] Reactive Oxygen Species, [REDACTED]

[REDACTED]

10.12201/bmr.202606.00080V1

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[REDACTED] 调控 [REDACTED] 通路

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[Redacted text block] 诱导 [Redacted text block]

[Redacted text block] HIF-1 $\alpha$  [Redacted text block]

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[Redacted text block] HIF-1 $\alpha$  [Redacted text block]

[Redacted text block] HIF-1 $\alpha$  [Redacted text block]

### 3.3 调控 [Redacted text block]

10.12201/bmr.202606.00080V1



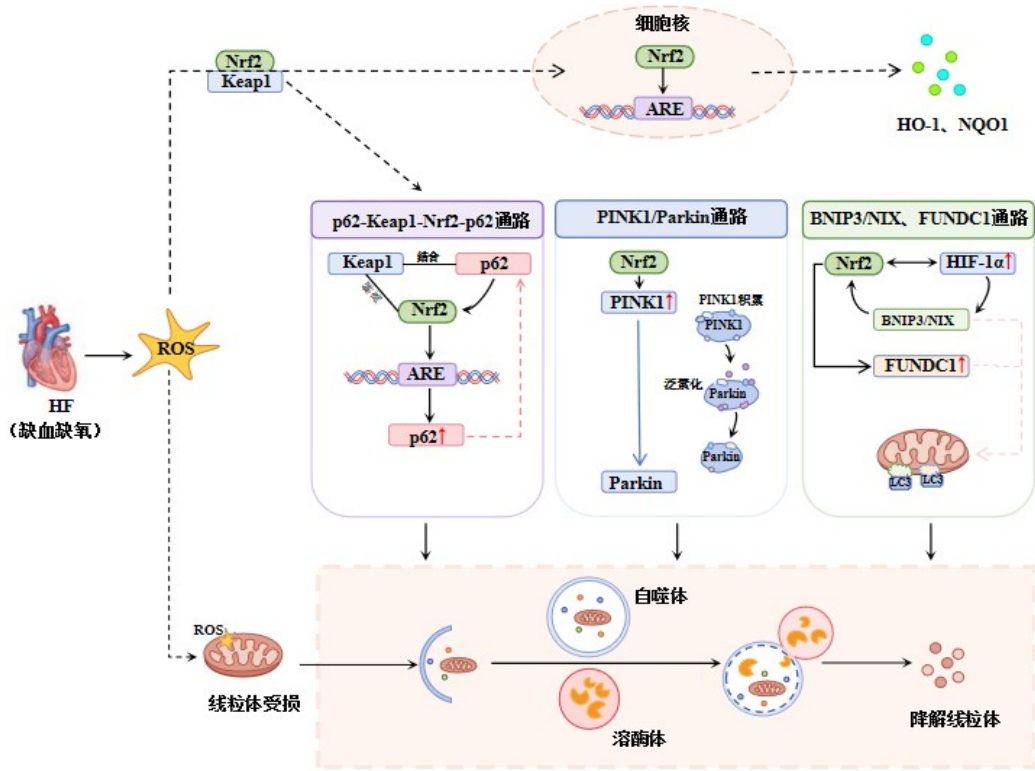


图 1 Nrf2 介导 MA 调控 HF 机制图

[REDACTED]

[REDACTED]

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