cAMP signaling in cardiovascular diseases

**Key**
- C: Protein kinase A catalytic subunit
- R: Protein kinase A regulatory subunit
- cAMP

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**Hypertrophy**
- Cytokines
- Catecholamines
- MEK
- MEKS
- ERK5
- PDE4D3
- mAKAPβ
- AKAP-Lbc
- Phosphate group
- HDAC
- Hypertrophic gene expression

**Hypoxic cell death**
- Normoxia
  - PH2
  - DRP1
  - FIST
  - AKAP121
  - Mitochondrion
- Hypoxia
  - PH2
  - DRP1
  - FIST
  - AKAP121
  - Mitochondrion

**De-repression of gene expression**

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