## cGMP-PKG SIGNALING PATHWAY K04166.. K04634... Hypertrophic response genes K09260... K04346... β-МНС Reduced cardiac hypertrophy K04348... K04446.. K04969 K12335 Ca<sup>2+</sup> DNA Decrease in intracellular free calcium K04969 K04378 K09183 +p K18154 K04850.. K03121 Transcription Ca<sup>2+</sup> **♦**+p IP3 Hyperpolarization Calcium signaling pathway K05858 K04936.. .**⊘.** Sarcoplasmic reticulum (SR) 7<del>+</del>p Decreased calcium Decrease in intracellular free calcium **O**4 release from store Ca<sup>2+</sup> Increased calcium sequestration K01539... ္**တ**ိုင္မ<sup>2+</sup> K05853 K02183 K12337 K05850 **○**4 K05852 Ca<sup>2+</sup> K00907 Myosin +b, Smooth muscle relaxation K12755 0 K04513 K04514... ANP p-GCs +p K12323 cGMP K06269... BNP K07376.. K12324 CNP Vascular smooth H<sub>2</sub>O<sub>2</sub>° muscle contraction K04948.. 🟲 Phototransduction Increased pH K05862.. **\*** Cardioprotection Phototransduction κţ K18050 5' GMP K18050 K18283 K08041.. **-**0-**-**0 K05001 cAMP AMP K12318... ಄ Mitochondria NO Increased Apoptosis , expression of 0 K03916 K05870.. Decreased activity\_ of caspase-3 anti-apoptotic proteins Bradykinin Inhibition of apoptosis **⊘**NO K04213 0 Opioids Decreased release of cytochrome C K02158 PI3K-Akt K04630 K04265... signaling pathway Adenosine Cell growth and differentiation Platelet inhibition K04526 K04456 K13242 K04527 K16172... K00922... K06274 K04141.. K04630 MAPK K04366 signaling pathway 04022 7/21/15 (c) Kanehisa Laboratories