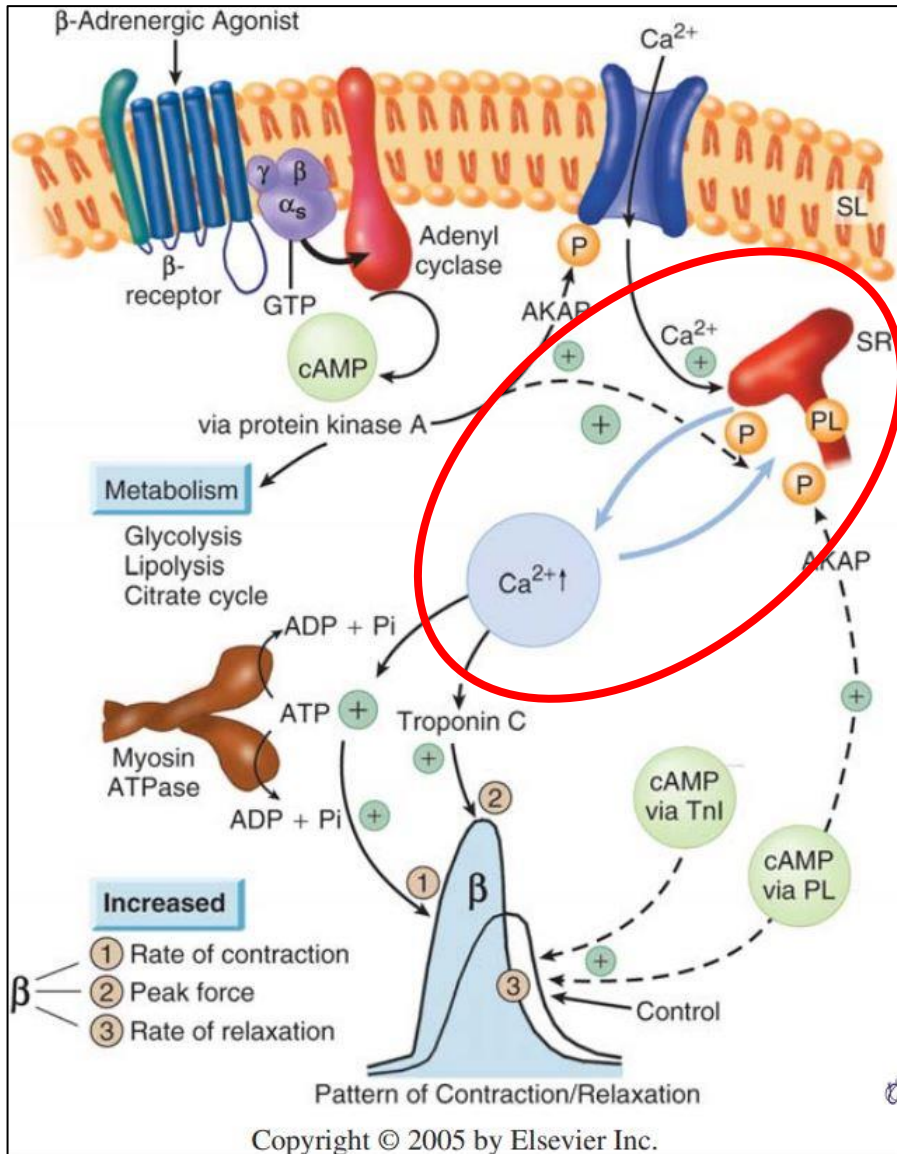


Magneto- ionography

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Magnetoionography (MIG) is a new method derived from MCG and patented by bmp in Aug 2022, which for the first time allows for the characterisation of individual ionic currents in cardiac muscle cells (intracellular and membrane currents).

Ca²⁺ transient



ECG vs MCG: MCG is a New Quality



The electrocardiogram is blind to the Ca²⁺ transient, because of isolation of the cell membrane.



Because the membranes of cardiac cells are completely permeable to the intracellularly generated magnetic fields, the MCG measures both the cell membrane potential as well as the Ca²⁺ transients.

Since the invention of the ECG in 1895 and MCG in 1963 the MCG was held to be the better ECG. Now we can look with the MCG directly into the cell !