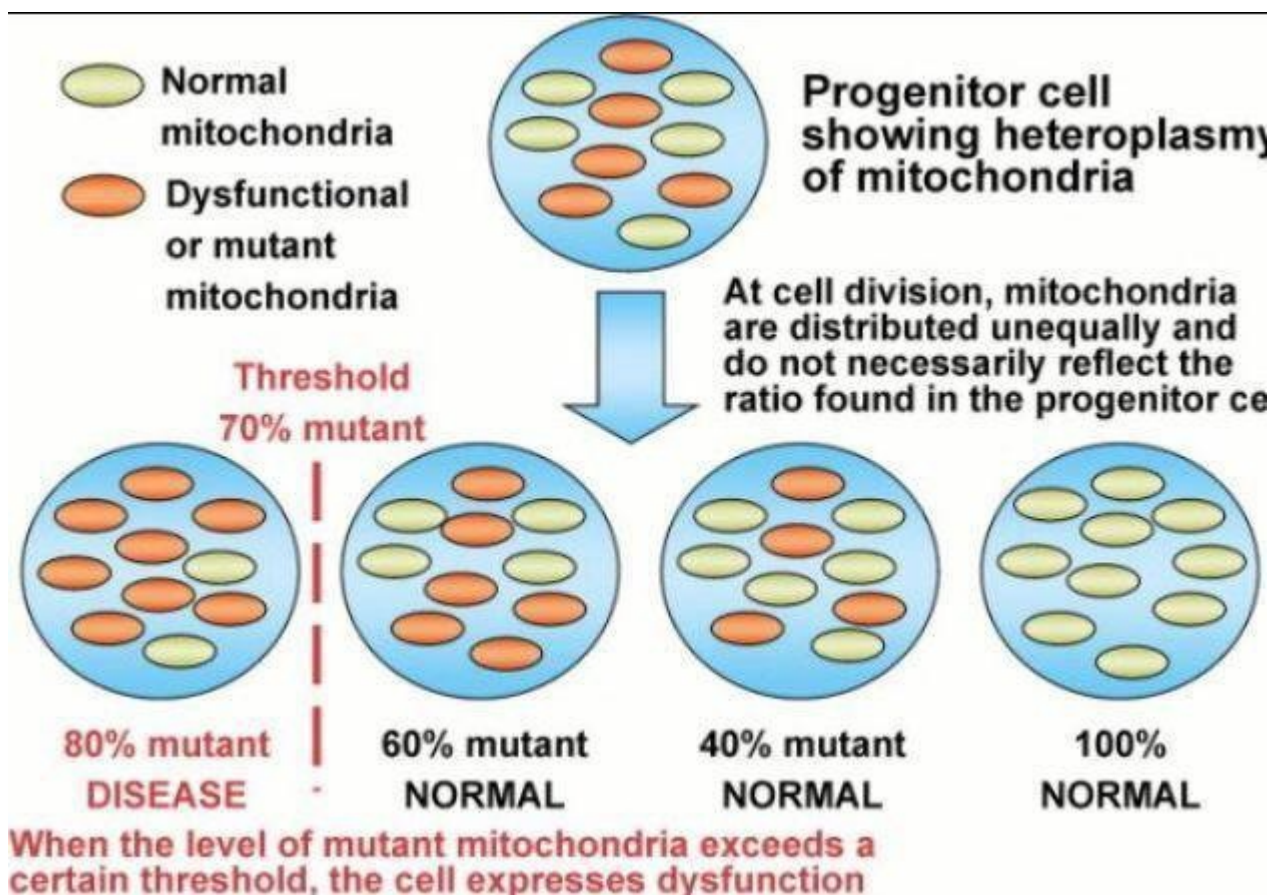


# CPC #16: Quantum Breathing Effects

The Bohr effect hinges around the electromagnetic allosteric interactions between the heme molecules of the hemoglobin tetramer. The Bohr effect a decrease in the amount of oxygen associated with hemoglobin and other respiratory compounds in the inner mitochondrial membrane in the cristae in response to a lowered blood pH resulting from an increased concentration of carbon dioxide in the blood. Recall that in humans, CO<sub>2</sub> levels, and not oxygenation stimulate breathing rhythms in the brain.



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