



The cartoon shows the components of mitochondrial electron transport chain: at front -complex III (purple), and in the background - complexes I (blueish), II (yellowish), and IV (greyish). Complex III transfers electrons between quinone (yellow) and cytochrome c (red surface) and couple this process to vectorial transfer of protons across the membrane. Recent exciting investigations build up experimental evidence that the chains of cofactors in dimeric enzyme form an H-shaped electron transfer system (blue arrows) that connects four quinone oxidation/reduction sites. An inherent feature of this system is a two-heme bridge that electronically connects the two monomers (central blue horizontal double arrow).

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