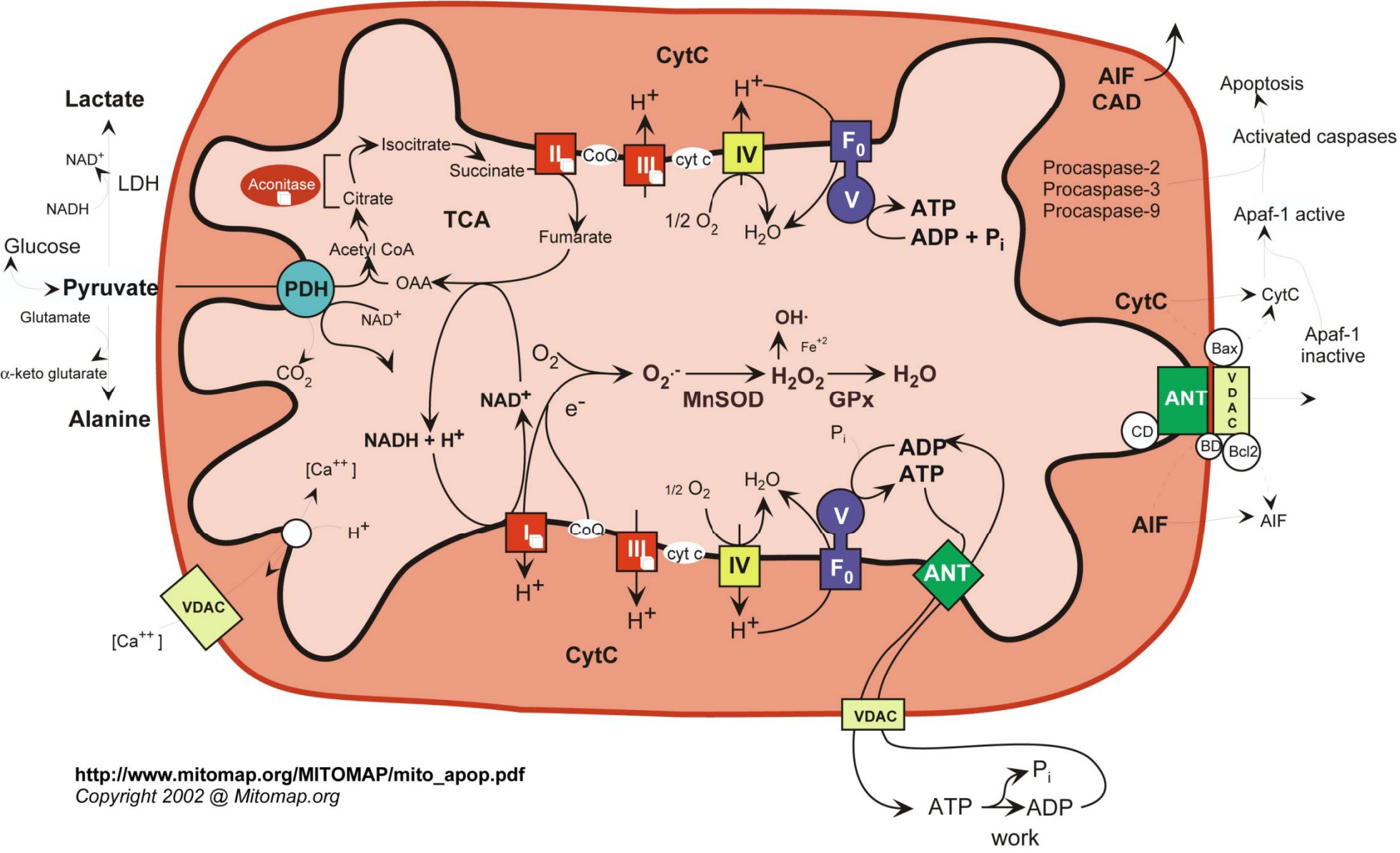


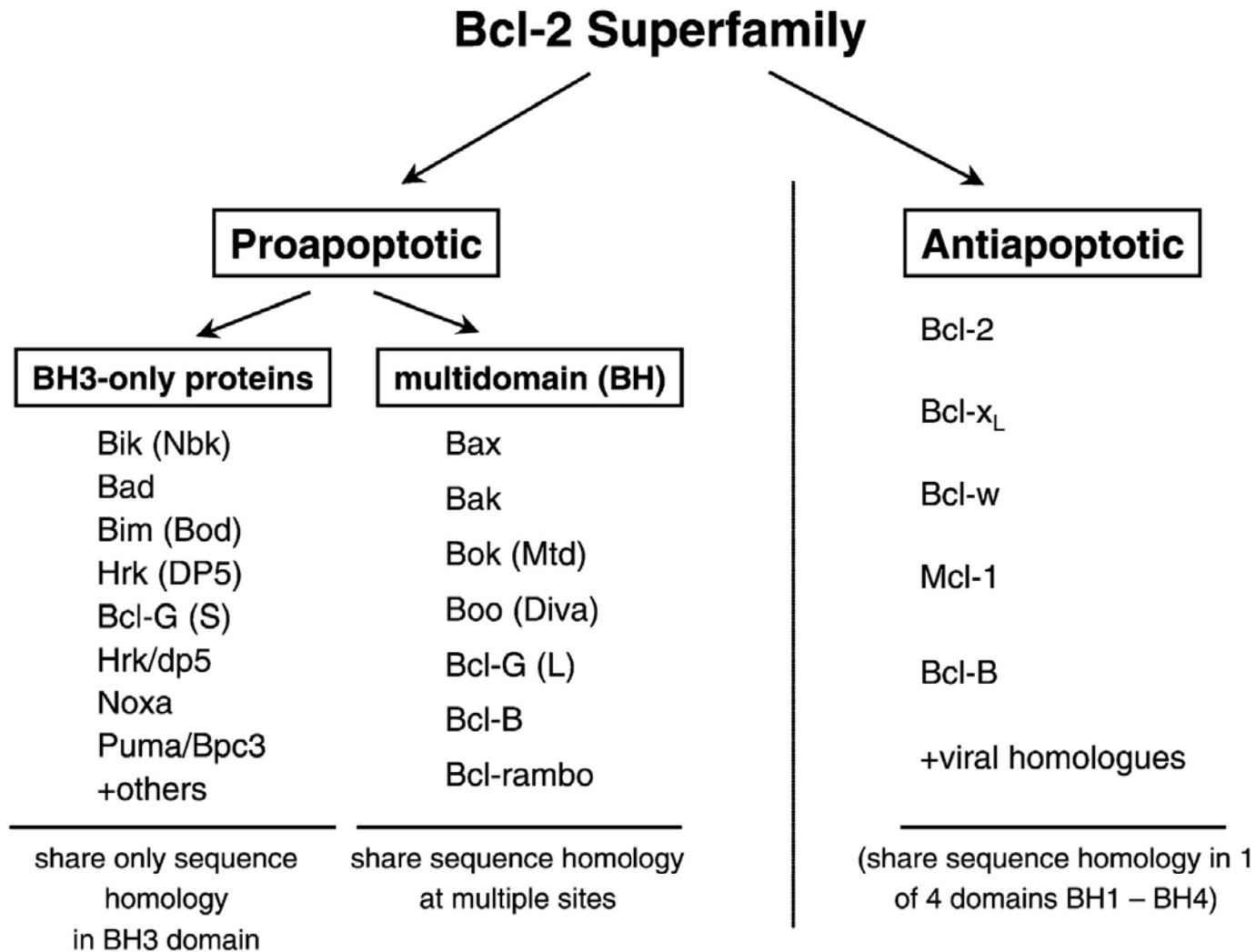
Mitochondrial Energetics



http://www.mitomap.org/MITOMAP/mito_apop.pdf
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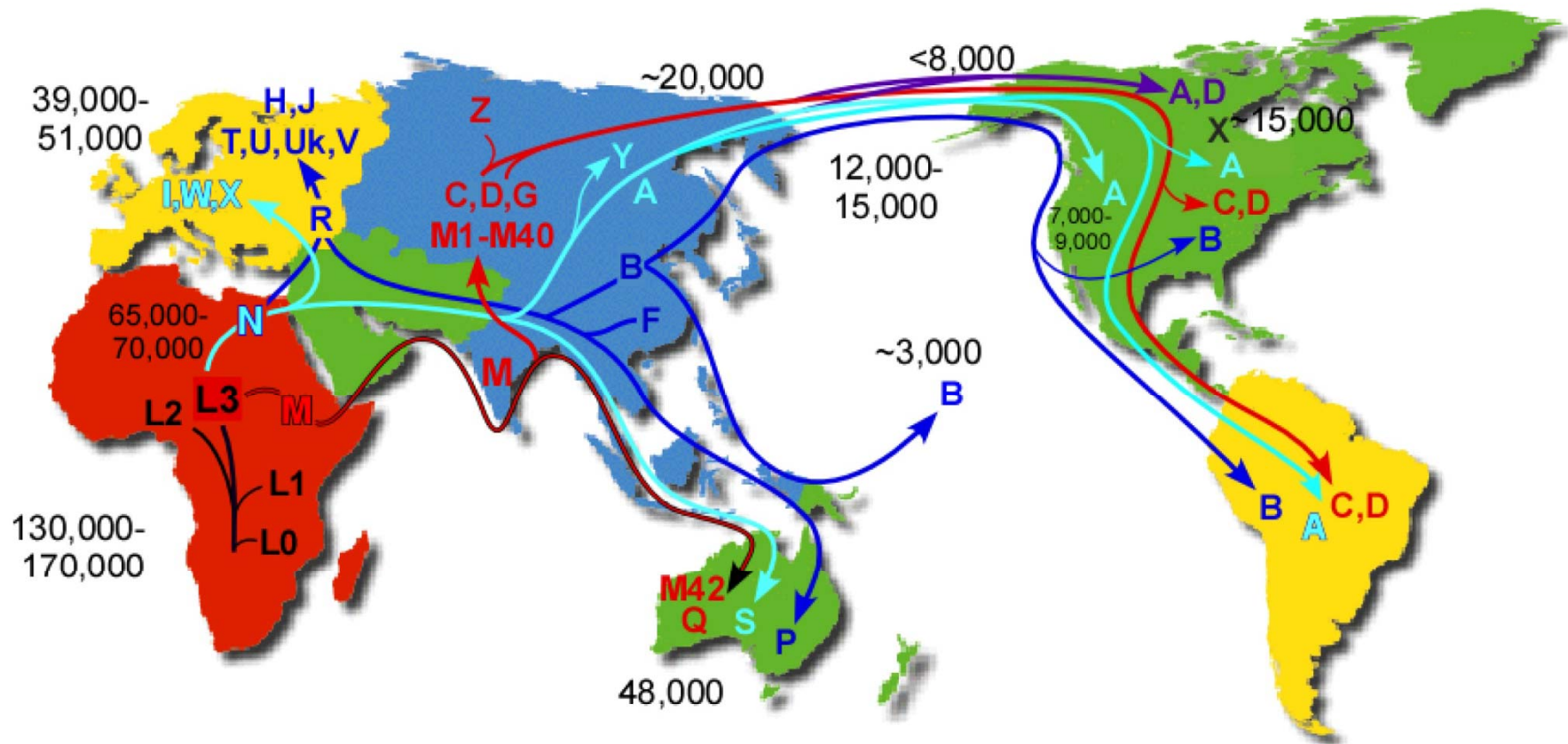
Diagram of the mammalian mitochondrion showing the relationship between energy production, ROS generation, and regulation of apoptosis.

Members of the Bcl-2 superfamily are key regulators of mitochondrial apoptosis The Bcl-2 superfamily can be subdivided into pro- and antiapoptotic family members.



Human mtDNA Migrations

from <http://www.mitomap.org>



Mutation rate = 2.2 – 2.9% / MYR
Time estimates are YBP