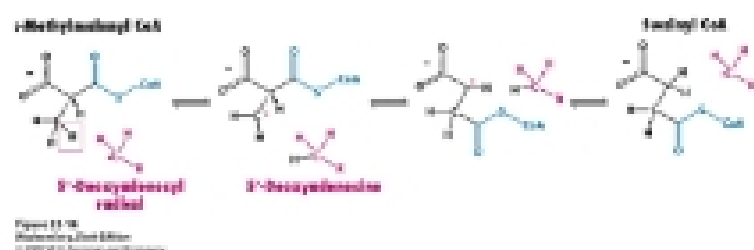


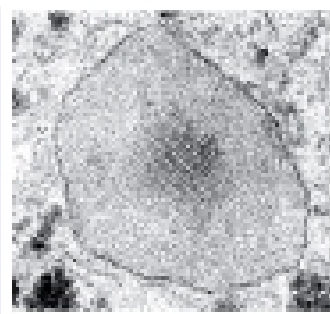
Formation of Succinyl CoA from Methylmalonyl CoA

1. Radical abstracts a hydrogen atom from the methyl group to form $\text{CH}_2\cdot$ radical.
2. Spontaneous rearrangement of CO-S-CoA and radical.
3. Radical abstracts a hydrogen atom from 5'-deoxyadenosine to form a 5'-deoxyadenosine radical.



Catabolism occurs in both the mitochondrial matrix and peroxisomes in mammals, and occurs in peroxisomes *exclusively* in plants and in yeast.

Single membrane-bound organelle
Thought to arise from the ER
Many enzymes are found there
Many reactions that result in the production of peroxides, H_2O_2 , occur there.



In mammals, long chain FA are catabolized here to shorter octanoyl CoA chains.

