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*This paper explains how prokaryotic bacteria and yeast retain deuterium while expelling protons in order to maintain unstable DNA for continuous growth via the fermentation of glycolytic substrates with high deuterium content:*

Kotyk A, Dvoráková M, Koryta J.

Deuterons cannot replace protons in active transport processes in yeast.

FEBS Letters 264(2):203-205, 1990

[https://doi.org/10.1016/0014-5793\(90\)80248-H](https://doi.org/10.1016/0014-5793(90)80248-H)

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*This paper explains how eukaryotic cells transform into a malignant phenotype once transfected with the deuterium collecting ATPase minipumps that make yeasts/bacteria grow unlimitedly:*

Perona R, Serrano R.

Increased pH and tumorigenicity of fibroblasts expressing a yeast proton pump.

Nature 334(6181):438-40, 1988

<https://www.nature.com/articles/334438a0>

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*This paper explains how deuterium regulates cell proliferation and thus how to use its depletion (deupletion) in the treatment of cancer as well as other medical conditions:*

Somlyai G, Jancsó G, Jákli G, Vass K, Barna B, Lakics V, Gaál T.

Naturally occurring deuterium is essential for the normal growth rate of cells.

FEBS Letters 317(1-2):1-4, 1993

[https://doi.org/10.1016/0014-5793\(93\)81479-J](https://doi.org/10.1016/0014-5793(93)81479-J)

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*This paper positions deuterium depleted water production and recycling in the mitochondrial matrix in combination with a natural ketogenic diet and explains how medicinal deupletion (MDeupletion - deuterium depletion) offers benefits via maintaining the differentiated phenotype of eukaryotic cells to prevent disease:*

Boros LG, D'Agostino DP, Katz HE, Roth JP, Meuillet EJ, Somlyai G.

Submolecular regulation of cell transformation by deuterium depleting water exchange reactions in the tricarboxylic acid substrate cycle.

Medical Hypotheses 2016 Feb;87:69-74

<https://doi.org/10.1016/j.mehy.2015.11.016>

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*This paper describes how medical deupleting (MDeupleting - deuterium depleting) natural ketogenic diets involving deuterium depleted water can be positioned for clinical, translational and medical benefits:*

Boros LG, Collins TQ, Somlyai G.

What to eat or what not to eat-that is still the question.

Neuro Oncology 19(4):595-596, 2017

<https://doi.org/10.1093/neuonc/now284>