Review of: "The role of pH in cancer biology and its impact on cellular repair, tumor markers, tumor stages, isoenzymes, and therapeutics"

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Potential competing interests: No potential competing interests to declare.

The manuscript deals with the role of pH in cancers which is intriguing, but lack of consistency for instance the coupling of cell cycle and pH changes in different cancer cells is not reported and discussed. A table summarizing the different cancer cell types, the pH changes and the cell cycle stage needs to be reported.

Currently there is association of cell cycle, resting potentials and intracellular Ca2+ ions see for referenceCell Cycle Regulation by Ca^{2+}-Activated K^+ (BK) Channels Modulators in SH-SY5Y Neuroblastoma Cells.

Maqoud F, et al., .Int J Mol Sci. 2018 Aug 18;19(8):2442. doi: 10.3390/ijms19082442.

Carbonic anhydrase inhibitors other than regulation of pH, also directly target ion channels with effects on cell proliferation for instance BK channels see for reference :

Emerging role of calcium-activated potassium channel in the regulation of**cell** viability following potassium ions challenge in HEK293 cells and pharmacological modulation.

Tricarico et al. .PLoS One. 2013 Jul 16;8(7):e69551. doi: 10.1371/journal.pone.0069551. Print 2013.