

Erratum

In the original article by Lee, et al., entitled „Expressional and Functional Characterization of Intracellular pH Regulators and Effects of Ethanol in Human Oral Epidermoid Carcinoma Cells“ [Cell Physiol Biochem 2018;47:2056-2068, DOI: 10.1159/000491473], there have been made several mistakes in the manuscript and results as well as a mistake in Fig. 7A.

The corrected versions of the respective sentences are displayed below, together with their respective page number. The corrected Fig. 7 is also displayed below.
The authors sincerely apologize for this mistake.

On page 2057: „Such low pH_e inside solid tumors is mainly attributable to the pH_i extruders, such as Na^+H^+ exchanger (NHE) and $Na^+HCO_3^-$ cotransporter (NBC) [6, 7].“

On page 2059: „Fig. 1A showed the emission ratio observed on perfusion with five different pH calibration solutions (5.5~8.5) in OEC-M1 cells. The maximum and minimal emitted ratio (R_{max} and R_{min}) of 530nm at 490nm and 440nm excitations were obtained from perfusion with pH 8.5 and 5.5 calibration solution, respectively.“

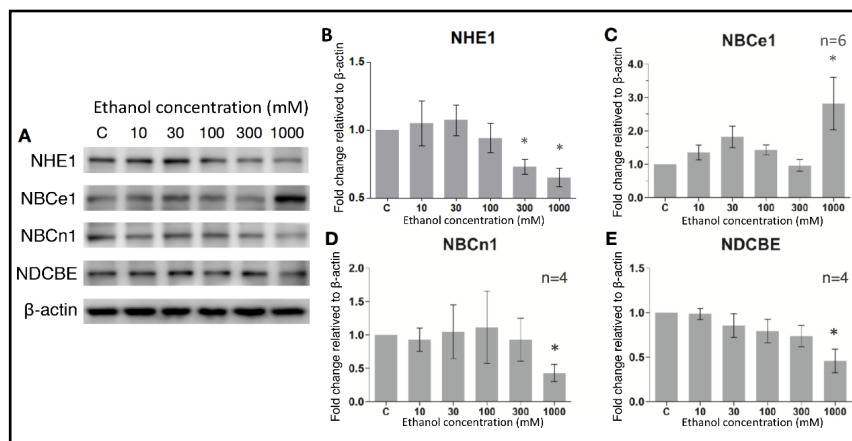
On page 2060, Figure Legend 1: „In situ calibration of BCECF fluorescent dye, resting pH_i and kinetic steady-state pH_i in OEC-M1 cells. (A) The trace shows the BCECF fluorescence (530 nm emission at 490 nm and 440 nm excitations) that calibrated by superfusing with 5 different pH (5.5-8.5) of nigericin solutions in OEC-M1 cells. (B) The curve and equation show the relationship of BCECF fluorescence ratio and pH_i that averaged from 5 similar experiments as shown in A. [...]“

On pages 2060-2061: „Our present results showed that ethanol (10-1000 mM) showed a concentration-dependent inhibitory effect on resting pH_i (-0.01~-0.05 pH_i unit) in HEPES-buffered solution, while a concentration-dependent and biphasic effect on resting pH_i (+0.01~-0.04 pH_i unit) in CO_2/HCO_3^- -buffered condition, as shown in histograms of Fig. 4E.“

On page 2063, Figure Legend 7: „Effect of chronic treatment of ethanol (24 hr) on isoforms of acid extruders in OEC-M1 cells. (A) The western blot results show the changes of isoforms of NHE1, NBCe1, NBCn1, NDCBE and β -actin expression (marked at the most left) after 24 hr treatment with ethanol (10 to 1000 mM; marked at the top) in OEC-M1 cells. [...]“

On page 2064: „The ethanol-induced changes on expression of acid extruders, i.e. NHE and NBC isoforms (Fig. 7), might be the reason to account for the higher extend on pH_i changes upon 24 h ethanol treatment.“

Fig. 7. Effect of chronic treatment of ethanol (24 hr) on isoforms of acid extruders in OEC-M1 cells. (A) The western blot results show the changes of isoforms of NHE1, NBCe1, NBCn1, NDCBE and β -actin expression (marked at the most left) after 24 hr treatment with ethanol (10 to 1000



mM; marked at the top) in OEC-M1 cells. (B, C, D, E) The histogram show the relative expression ratio of NHE1, NBCe1, NBCn1 and NDCBE to β -actin that were averaged for 4 to 6 experiments similar to those shown in A, respectively. * $p < 0.05$ or ** $p < 0.01$ verse to control.