



Cite this: *Nanoscale Horiz.*, 2025, 10, 647

Correction: Single glucose molecule transport process revealed by force tracing and molecular dynamics simulations

Yangang Pan,^a Yuebin Zhang,^c Pianchou Gongpan,^{dg} Qingrong Zhang,^{ae} Siteng Huang,^c Bin Wang,^f Bingqian Xu,^f Yuping Shan,^{*e} Wenyong Xiong,^{*d} Guohui Li^{*c} and Hongda Wang^{*abg}

DOI: 10.1039/d5nh90006a

rsc.li/nanoscale-horizons

Correction for 'Single glucose molecule transport process revealed by force tracing and molecular dynamics simulations' by Yangang Pan et al., *Nanoscale Horiz.*, 2018, **3**, 517–524, <https://doi.org/10.1039/C8NH00056E>.

The authors regret an error in Fig. 5A of the original article, whereby the white field image for E426A was identical to the white field image for K38A. This error most likely occurred due to a mislabelling of the white field image for E426A. The new Fig. 5 provided below replaces the originally published figure and contains new GFP and white field data for the blank, WT, K300A, E426A and K38A in Fig. 5A. The new data were obtained from a repeated set of imaging.

An independent expert has viewed the corrected figure and confirmed that it is consistent with the discussions and conclusions presented in the original article.

The Royal Society of Chemistry apologises for these errors and any consequent inconvenience to authors and readers.

^a State Key Laboratory of Electroanalytical Chemistry, Research Center of Biomembranomics, Changchun Institute of Applied Chemistry, Chinese Academy of Sciences, Changchun, Jilin 130022, P. R. China. E-mail: hdwang@ciac.ac.cn

^b Laboratory for Marine Biology and Biotechnology, Qingdao National Laboratory for Marine Science and Technology, Wenhai Road, Aoshanwei, Jimo, Qingdao, Shandong 266237, P. R. China

^c State Key Laboratory of Molecular Reaction Dynamics, Dalian Institute of Chemical Physics, Chinese Academy of Sciences, Dalian, Liaoning 116023, P. R. China. E-mail: ghli@dicp.ac.cn

^d State Key Laboratory of Phytochemistry and Plant Resources in West China, Kunming Institute of Botany, Chinese Academy of Sciences, Kunming, Yunnan 650201, P. R. China. E-mail: xiong.wenyong@mail.kib.ac.cn

^e School of Chemistry and Life Science, Advanced Institute of Materials Science, Changchun 130012, China. E-mail: shanyip@ciac.ac.cn

^f Single Molecule Study Laboratory, College of Engineering and Nanoscale Science and Engineering Center, University of Georgia, Athens, GA 30602, USA

^g Graduate University of Chinese Academy of Sciences, Beijing, 100049, P. R. China



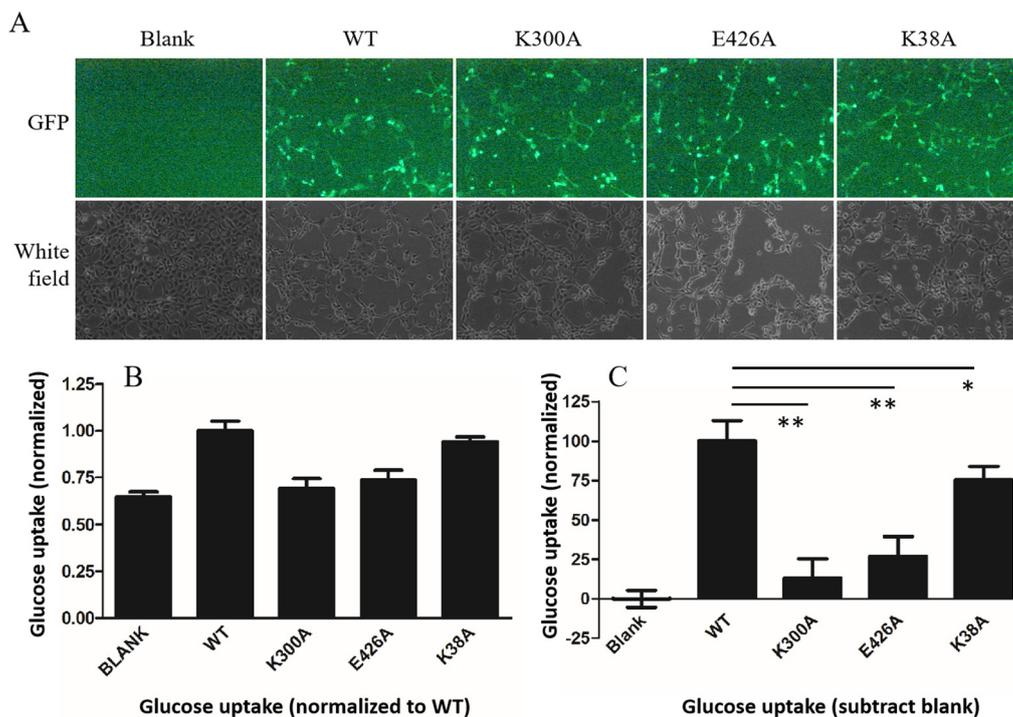


Fig. 5 Mutations of the K38, K300 or E426 residues of GLUT1 that blunted the uptake of glucose into the cells. (A) Representative images of the HEK293 cell expression of the WT or the K38A, K300A or E426A mutant versions of GLUT1-GFP. (B) Total glucose uptake into the cells. The data were normalized to the WT. (C) Percentage of glucose uptake inhibition observed by expressing the mutants or the WT GLUT1 in the cells. The data were subtracted from the blank and were normalized to the WT. The inhibition values caused by the K300A, E426A or K38A mutants are 86.84%, 72.92% and 24.43%, respectively. The data were subtracted from the blank and were normalized to the WT from B. * $P < 0.05$, ** $P < 0.01$.

