

Corrigendum

Corrigendum to “XRRA1 Targets ATM/CHK1/2-Mediated DNA Repair in Colorectal Cancer”

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In the article titled “XRRA1 Targets ATM/CHK1/2-Mediated DNA Repair in Colorectal Cancer” [1], there were errors in the reported sequences. It was raised to our attention [2] that the article includes mistargeted primer sequences as follows:

(a) The reverse primer for cyclin E, TTTCACCTTGTC ATGTCGTCCTTG TAGTCCG, does not target cyclin E despite being reported to do so in previous studies [3, 4]

(b) The primers given for P21, TACTCCCCTGCCCTCA ACAAG and CGCTATCTGAGCAGCGCTCAT, actually target TP53

(c) The primers given for GADPH, AATGGACAACCT GGTCGTGGAC and CCCTCCAGGGGATCTGTTTG, actually target glyceraldehyde-3-phosphate dehydrogenase, spermatogenic. This is a paralog of GADPH that is only expressed in high levels in the testes [5]

The authors say they used the correct primers and provided purchase orders (see the supplementary materials (available here)), but incorrectly included primers used in their other research when preparing the article. The correct primer sequences are shown below:

(i) XRRA1 forward 5'-TCAGGAATCTACAAGCTGG ATGA-3'

(ii) XRRA1 reverse 5'-CTGAACCACTAACCAGTGT CC-3'

(iii) Cyclin E forward 5'-GCCAGCCTTGGGACAATAA TG-3'

(iv) Cyclin E reverse 5'-CTTGCACGTTGAGTTTGGG T-3'

(v) Cyclin A2 forward 5'-CGCTGGCGGTACTGAA GTC-3'

(vi) Cyclin A2 reverse 5'-GAGGAACGGTGACATG CTCAT-3'

(vii) P21 forward 5'-CGATGGAACCTCGACTTTGTC A-3'

(viii) P21 reverse 5'-GCACAAGGGTACAAGACAG TG-3'

(ix) GAPDH forward 5'-ACAACCTTGGTATCGTGGA AGG-3'

(x) GAPDH reverse 5'-GCCATCACGCCACAGT TTC-3'

Supplementary Materials

Purchase orders for the primers from Tianyi Huiyuan.
(*Supplementary Materials*)

References

- [1] W. Wang, M. Guo, X. Xia, C. Zhang, Y. Zeng, and S. Wu, "XRRA1 targets ATM/CHK1/2-mediated DNA repair in colorectal cancer," *BioMed Research International*, vol. 2017, Article ID 5718968, 11 pages, 2017.
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- [3] H. Montazeri, S. Bouzari, K. Azadmanesh, S. N. Ostad, and M. H. Ghahremani, "P53 but not cyclin E acts in a negative regulatory loop to control HER-2 expression in MCF-7 breast carcinoma cell line," *Acta Medica Iranica*, vol. 51, no. 8, pp. 513–519, 2013, <https://acta.tums.ac.ir/index.php/acta/article/view/4400>.
- [4] H. Montazeri, S. Bouzari, K. Azadmanesh, S. N. Ostad, and M. H. Ghahremani, "Overexpression of cyclin E and its low molecular weight isoforms cooperate with loss of p53 in promoting oncogenic properties of MCF-7 breast cancer cells," *Asian Pacific Journal of Cancer Prevention*, vol. 16, no. 17, pp. 7575–7582, 2015.
- [5] *Glyceraldehyde-3-Phosphate Dehydrogenase, Spermatogenic*-GeneCards <https://www.genecards.org/cgi-bin/carddisp.pl?gene=GAPDHS>.