

Correction

# Correction: Belchior et al. Repair Kinetics of DSB-Foci Induced by Proton and $\alpha$ -Particle Microbeams of Different Energies. *Life* 2022, 12, 2040

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## Error in Table

In the original publication [1], there was a mistake in Table 3 as published. In one of the cells of this table (column 5, row labelled “ $\alpha$ —particles 20 MeV”), the same values as in the cell below (column 5, row labelled “ $\alpha$ —particles 10 MeV”) were shown. The corrected Table 3 appears below.

**Table 3.** Results of the model parameters obtained by simultaneous non-linear regression of all datasets: Number of radiation-induced foci per track  $\bar{n}_Q$ , fraction of persistent radiation-induced foci  $p_Q$ , mean number of persistent radiation-induced foci per track  $\bar{p}_Q$ , repair rates  $\beta_1$  and  $\beta_2$ , and respective standard errors (SE) obtained from the fit of the non-linear model (Equations (1)–(3)) to the ensemble of datasets for all radiation qualities and the sham-irradiated cells. The values are from the regression performed using the GDL MPfit procedure imposing  $\beta_0 = \beta_1$ . The upper and lower values in the cells in columns 3 through 7 are the fit results obtained by using Equation (4) and Equation (5), respectively, in conjunction with Equations (1)–(3). The values given in italics in columns 4 and 5 have been calculated from the values in the respective other column. The resulting ratio  $\chi^2/f$  of the weighted sum of squared residuals  $\chi^2$  (summed over all datasets) to the degrees of freedom  $f$  is about 4.8 in both cases. In columns 6 and 7, only one value is given, since these parameters were kept the same for all radiation qualities in the simultaneous fit.



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(1) Radiation Beam	(2) LET (keV/ $\mu$ m)	(3) Mean Number of Foci Per Track, $\bar{n}_Q$	(4) Proportion of Persistent Foci, $p_Q$	(5) Mean Number of Persistent Foci Per Track, $\bar{p}_Q$	(6) Repair Rate $\beta_1$ ( $\text{h}^{-1}$ )	(7) Repair Rate $\beta_2$ ( $\text{h}^{-1}$ )
Protons 3 MeV	$19 \pm 2$	$0.37 \pm 0.02$ $0.37 \pm 0.02$	$0.42 \pm 0.06$ $0.38 \pm 0.05$	$0.15 \pm 0.02$ $0.14 \pm 0.02$		
$\alpha$ —particles 20 MeV	$36 \pm 1$	$0.69 \pm 0.04$ $0.69 \pm 0.04$	$0.25 \pm 0.06$ $0.22 \pm 0.05$	$0.17 \pm 0.04$ $0.15 \pm 0.03$	$0.43 \pm 0.01$ $0.41 \pm 0.01$	$0.06 \pm 0.01$ $0.05 \pm 0.01$
10 MeV	$85 \pm 4$	$1.13 \pm 0.06$ $1.13 \pm 0.06$	$0.33 \pm 0.06$ $0.30 \pm 0.05$	$0.38 \pm 0.08$ $0.34 \pm 0.06$		
8 MeV	$170 \pm 40$	$1.68 \pm 0.18$ $1.68 \pm 0.18$	$0.31 \pm 0.08$ $0.27 \pm 0.07$	$0.52 \pm 0.15$ $0.47 \pm 0.10$		

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The authors state that the scientific conclusions are unaffected. This correction was approved by the Academic Editor. The original publication has also been updated.

### Reference

1. Belchior, A.; Canhoto, J.F.; Giesen, U.; Langner, F.; Rabus, H.; Schulte, R. Repair Kinetics of DSB-Foci Induced by Proton and  $\alpha$ -Particle Microbeams of Different Energies. *Life* **2022**, *12*, 2040. [[CrossRef](#)] [[PubMed](#)]

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