

## Examination of Electric Field Effects on Tissues by Using Back Propagation Neural Network

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The given data in some parts of the published paper were incorrect:

On pages 685–686, Group I, last sentence, “*Thus a prediction performance of 99.34 % (general average) is obtained*”. 99.34% must be changed to 99.39%.

The corrected text is given below:

### Group I

Some of the experiment results belonging to SOD data of spleen tissue of electric fields applied in different exposure periods are shown in Table 3. The minimum error value (MSE) obtained is 0.06799. As it is seen in Figure 2, the learning error reached approximately to 0.06799 at the 2977th step (trial), and the learning was completed successfully in the 10,000th step.

After the learning had been completed successfully (MSE <0.06), real experiment results (Table 3) were compared with experiment results which were pre-

dicted by the neural network (Table 4). The prediction performance obtained after the comparison is computed as seen in Table 5. The prediction performance was 99.87% at the 1st day, 97.84% at the 3rd day, 99.54% at the 5th day, and 99.92% at the 7th day and 99.78% at 10th day. Thus a prediction performance of 99.39% (general average) is obtained.

Also on page 686, Group II, last sentence, “*Thus a prediction performance of 99.39 % (general average) is obtained*”. 99.39% must be changed to 99.18%.

The corrected text is given below:

### Group II

Some of the experiment results belonging to MDA data of spleen tissue of electric fields applied in different exposure periods are shown in Table 6. The minimum error value (MSE) obtained is 0.12914. As it is seen in Figure 3, the learning error reached approximately to 0.12914 at the 2732th step (trial), and the learning was completed successfully in the 10,000th step.

After the learning had been completed successfully (MSE <0.13), real experiment results (Table 6) were compared with experiment results which were predicted by the neural network (Table 7). The prediction performance obtained after the comparison is computed as seen in Table 8. The prediction performance was 99.88% at the 1st day, 98.78% at the 3rd day, 99.27% at the 5th day, and 99.02% at the 7th day and 98.96% at 10th day. Thus a prediction performance of 99.18% (general average) is obtained.

Table 5 and Table 8 are one and the same. The correct Table 8 is shown below:

On page 697, 2nd paragraph, “99.34% and 99.39%” must be changed to “99.39% and 99.18%” respectively. This is in relation with the corrections made in the text and in Table 8.

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**Table 8** The prediction performance belonging to group II in experiment 1

Test number	1 day (%)	3 days (%)	5 days (%)	7 days (%)	10 day (%)	Mean (%)
1	0.02	2.60	1.52	0.27	1.08	1.10
2	0.11	0.44	1.01	1.08	1.76	0.88
3	0.11	0.44	0.81	1.98	1.58	0.98
4	0.23	1.31	0.00	0.67	0.48	0.54
5	0.14	1.30	0.30	0.81	0.36	0.58
Mean	0.12	1.22	0.73	0.98	1.04	0.82
Prediction Performance	99.88	98.78	99.27	99.02	98.96	99.18

The corrected text is given below:

In the study of electric field applied different exposure periods (Experiments 1), 99.39% of the average prediction performance of the neural network of experiment data belonging to Group I; 99.18% of the average prediction

performance of the neural network of experiment data belonging to Group II; 99.51% of the average prediction performance of the neural network of experiment data belonging to Group III and 97.27% of the average prediction performance of the neural network of experiment data belonging to Group IV is computed correctly.