

## *Errata corrigé*

1. The acronym section have been updated removing MCHand adding: DTSP (Dithiobis Succyninmidyl Propionate), DSC (DropSens Carbon devices), DSAu (DropSens gold devices), EEC (Electrical Equivalent Circuit), CPE (Constant Phase Element).
2. Figure 2.4: "Schematics" in the figure caption have been substituted by "Scheme".
3. Figures 3.10-3.12: the fugure captions have been modified specifying that the cells were treated for 24 hours.
4. Table 3.6: the table caption has been modified specifying that the cells were treated for 24 hours with 1 uM Clenbuterol.
5. Paragraph 3.5.4.2: it has been specified that the collected data showed in the respective figures have been obtained by 24 hours treatments with 1 uM Clenbuterol.
6. Figure 4.39: In the figure caption it has been specified that the Tris-HCl measurements are represented by the continuous line and that the HBRS ones are represented by the dotted line.
7. Table 4.1: The patrameters' measurement units are: a (uA/mM), b (nA).
8. Figure 4.54: The figure reports the calibration plot of the lactate biosensor in log scale for the lactate concentration. The figure's inset reports the same plot in linear scale, showing the linear fit of the recorded current in the biosensor's response linear range.
9. Just below Figure 4.54, the measurement unit of the biosensor's sensitivity is uA/mM.
10. Figure 5.2: The caption of the figure explains that the equivalent NADH concentrations reported on the y-axis are just the values obtained by the Lambert-Beer law from the recorded absorbance values with the urine samples.
11. Page 139, below figure 5.5: Only veal urine has been tested. Therefore, the comments on beef urine have been removed.
12. Page 140, below figure 5.6: "Veal urine were selected" has been corrected with "Veal urine was selected".
13. Page 145: "urine 100%" has been corrected with "100% urine", and "translated" with "shifted".
14. Table 5.1: measurement unit chenged from "mA/M" to "uA/mM"
15. Page 148: "subsequente" has been corrected with "next", and "full" with "complete"
16. All the "340 nm" referring to the NADH UV-Vis peak wavelength have been corrected with "339 nm".