Errata List for Biology Matters for GCE 'O' Level Textbook (3rd Edition)
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Note: The following errata will be corrected in subsequent reprints of this book.

| Chapter | Page No. | Original | Change |
| :---: | :---: | :---: | :---: |
| 1 | 6 | Chromosomes, <br> - Each ehromosome is a long thread-like structure found within the nucleus. (A humancellcontains 46 chromosomes.) <br> - It is made up of proteins and a compound called deoxyribonucleic acid or DNA. Hereditary information is stored in DNA. DNA carries instructions that a cell needs for carrying out its activities. <br> - When the cell is dividing, the thromosomes condense and shorten to become thick, rod shaped structures ${ }_{\text {I }}$ | 'Chromosomes' changed to <br> 'Chromatin' <br> Other changes within text as highlighted below: <br> - Each chromatin is a long thread-like structure found within the nucleus. <br> - It is made up of proteins and a compound called deoxyribonucleic acid or DNA. Hereditary information is stored in DNA. DNA carries instructions that a cell needs for carrying out its activities. <br> - When a cell is dividing, the chromatin condenses and shortens to become thick, rodlike structures called chromosomes. (A human cell contains 46 chromosomes.) |
| 2 | 36 | Living cells are able to absorb certain subbtances even though these substances are of higher concentration inside the cell than they are in the external environment. This means that the cells are absorbing substances against a concentration gradient (Figure 2.30). Such a process requires energy/and is called active transport. | Last line: Such a process requires energy from the cell and is called active transport. |
| 4 | 59 | Figure 4.2 Activation energy is needed to start a chemical reaction. <br> Note: If the overall energy change is negative, there is a decrease in energy content (as shown in graph). If the overall energy change <br> Figure 4.3 Activation energy for an enzyme-catalysed reaction | Change double-headed arrows to single-headed arrows. <br> Figure 4.2: <br> - the arrow for activation energy to point upwards <br> Figure 4.3: <br> - the 2 arrows for 'activation energy with and without enzyme' to point upwards, and <br> - arrow for 'overall energy change' should point downwards <br> - X-axis label, change to "Progress of reaction" |
| 5 | 74 | - Assimilation - Nutrients are used by cells to provide energy or to make new eytoplasm for growth. | Change to: <br> "Assimilation - Nutrients are used by cells to provide energy or to make new protoplasm for growth." |


| Chapter | $\begin{gathered} \hline \text { Page } \\ \text { No. } \end{gathered}$ | Original | Change |
| :---: | :---: | :---: | :---: |
| 5 | 82 | Protein Digestion <br> Proteins are digested by proteases. <br> - Some protein digestion begins in the stomach, where stomach protease <br> digests proteins to polypeptides. <br> - The undigested proteing that enter the small intestine are/digested by <br> intestinal protease to/pölypeptides. <br> - The polypeptides produced are further digested to amino acids by intestinal protease. | Change to: <br> Proteins are digested by proteases. <br> - Protein digestion begins in the stomach, where stomach protease digests proteins to polypeptides. <br> - The polypeptides that enter the small intestine are further digested by pancreatic protease to smaller polypeptides. <br> - The polypeptides produced are further digested to amino acids by intestinal protease. |
| 5 | 83 |  | Delete text "or small intestine" above first arrow. |
| 10 | 202 | Figure 10.7 | Change "spinal" to "cranial" |
| 12 | 248 |  | Reposition labels for "phloem" and "cambium" as marked up in red in diagram on the left. |


| Chapter | Page No. | Original | Change |
| :---: | :---: | :---: | :---: |
| 12 | 257 |  | Graph: move broken line to the left to where the curve first levels off (refer to blue broken line) Change " $38 \%$ " to " $X$ ". |
| 14 | 327 | Figure 14.10 | Shorten the mRNA to position shown by the red vertical line. |

