Erratum

To the PhD thesis The Role of Charge Regulation in iWeak Polyampholytes, submitted by Raju Lunkad

The text on page 41, below the table 4.5 reads

Here, we discuss two ∆pKA cases:
1. $\Delta pK_A \gg 0$ represented by $Glu_5 - His_5$ and $(Glu - His)_5$ peptides with $\Delta pK_A = 1.75$.
2. $\Delta pK_A \approx 0$ represented by $Lys_5 - Asp_5$ and $(Lys - Asp)_5$ peptides with $\Delta pK_A = 6.89$.

The correct version should read:

Here, we discuss two ∆pKA cases:
1. $\Delta pK_A \approx 0$ represented by $Glu_5 - His_5$ and $(Glu - His)_5$ peptides with $\Delta pK_A = 1.75$.
2. $\Delta pK_A \gg 0$ represented by $Lys_5 - Asp_5$ and $(Lys - Asp)_5$ peptides with $\Delta pK_A = 6.89$.

The text on page 67 in the discussion of $\Delta pK_A \approx 0$ reads:

This confirms that the adsorption of the diblock peptide to the star on the wrong side of the isoelectric point is not attributed to charge inversion but rather to the presence of charge patches.

The correct version should read:

Therefore, the inversion of charge in both $Glu_5 - His_5$ and $(Glu - His)_5$ peptides results in adsorption to the star on the wrong side of the isoelectric point due to the charge regulation.

The text on page 67 in the discussion of $\Delta pK_A \gg 0$ reads:

Therefore, the inversion of charge in both peptides cases results in adsorption to the star due to the charge regulation on the wrong side of the isoelectric point.

The correct version should read:

This confirms that the adsorption of the $Lys_5 - Asp_5$ diblock peptide to the star on the wrong side of the isoelectric point is not attributed to charge inversion but rather to the presence of charge patches.

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Raju Lunkad
28th June 2023