

***Escherichia coli* MltA: MAD phasing and refinement of a tetartohedrally twinned protein crystal structure. Addendum and erratum**

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In the paper by Barends *et al.* [(2005), *Acta Cryst.* **D61**, 613–621] errors were published in equations (4) and (6). The correct versions of these equations are given in this article. Addenda to the caption for Fig. 2 and one of the references in the article are also given.

The correct versions of equations (4) and (6) from the paper by Barends *et al.* (2005) are as follows,

$$R = \left[ \sum_{hkl} \left| |F_{\text{obs}}| - k(\alpha|F_{\text{calc}}|^2 + \alpha'T'|F_{\text{calc}}|^2 + \alpha''T''|F_{\text{calc}}|^2 + \alpha'''T'''|F_{\text{calc}}|^2)^{1/2} \right| \right] / \sum_{hkl} |F_{\text{obs}}|, \tag{4}$$

$$dt = \frac{-2k}{\sum_{hkl} |F_{\text{obs}}|^2} \cdot \left\{ \left[ (|F_{\text{obs}}| - k|F_{\text{calc}}^{\text{tetartohedral}}|) \frac{\alpha F_{\text{calc}}}{|F_{\text{calc}}^{\text{tetartohedral}}|} \right] + T' \left[ (|F_{\text{obs}}| - k|F_{\text{calc}}^{\text{tetartohedral}}|) \frac{\alpha' F_{\text{calc}}}{|F_{\text{calc}}^{\text{tetartohedral}}|} \right] + T'' \left[ (|F_{\text{obs}}| - k|F_{\text{calc}}^{\text{tetartohedral}}|) \frac{\alpha'' F_{\text{calc}}}{|F_{\text{calc}}^{\text{tetartohedral}}|} \right] + T''' \left[ (|F_{\text{obs}}| - k|F_{\text{calc}}^{\text{tetartohedral}}|) \frac{\alpha''' F_{\text{calc}}}{|F_{\text{calc}}^{\text{tetartohedral}}|} \right] \right\} \tag{6}$$

where

$$|F_{\text{calc}}^{\text{tetartohedral}}| = (\alpha|F_{\text{calc}}|^2 + \alpha'|T'F_{\text{calc}}|^2 + \alpha''|T''F_{\text{calc}}|^2 + \alpha'''|T'''F_{\text{calc}}|^2)^{1/2}.$$

In Fig. 2(b) of the original paper, a cutoff of 3σ was used for reflections between 2.3 and 2.15 Å resolution because of the weak data at this high resolution. Also an addition is made to the reference for van Straaten *et al.* (2004) which is given in full in the reference list below.

**References**

Barends, T. R. M., de Jong, R. M., van Straaten, K. E., Thunnissen, A.-M. W. H. & Dijkstra, B. W. (2005). *Acta Cryst.* **D61**, 613–621.  
van Straaten, K. E., Dijkstra, B. W. & Thunnissen, A.-M. W. H. (2004). *Acta Cryst.* **D60**, 758–760.