Corrections

Molecular Engineering of Myoglobin: Influence of Residue 68 on the Rate and the Enantioselectivity of Oxidation Reactions Catalyzed by H64D/V68X Myoglobin, by Hui-Jun Yang, Toshitaka Matsui, Shin-ichi Ozaki, Shigeru Kato, Takafumi Ueno, George N. Phillips, Jr., Shunichi Fukuzumi, and Yoshihito Watanabe,* Volume 42, Issue 34, September 2, 2003, pages 10174−10181.

The data on pages 10178−10180 needs to be corrected. The assignments of *R*- and *S*-enantiomers of sulfoxide products listed in Tables 1 and 3 are erroneously reversed. This error occurred because we switched the chiral HPLC column used for identifying the sulfoxidation products from a Daicel OB column to a Daicel OD column during the course of the experiments. We were not aware that the retention times of the two enantiomers would be reversed.

Accordingly, the text of the third paragraph of page 10189 also requires correction. The lines reading, “Consequently, the activation energy for the Fe−O bond cleavage to form the (*R*)-sulfoxide is smaller, and the rate is faster than that for the (*S*)-sulfoxide. Thus, H64D/V68A and H64D/V68S Mb produce the (*R*)-sulfoxide with high enantioselectivity” should be replaced with the following: “Consequently, the selective (*S*)-sulfoxide formation is a reflection of the (*S*)-sulfoxide having a lower transition state energy that the (*R*)-sulfoxide.”

It should be noted that we are making similar corrections in seven related publications: Ozaki, S., et al. (1996) *J. Am. Chem. Soc*. *118*, 9784−9785; Ozaki, S., et al. (1997) *J. Am. Chem. Soc*. *119*, 6666−6667; Matsui, T., et al. (1999) *J. Am. Chem. Soc*. *121*, 9952−9957; Kato, S., et al. (2002) *J. Am. Chem. Soc*. *124*, 8506−8507; Ueno, T., et al. (2005) *J. Am. Chem. Soc*. *127*, 6556−6562; Watanabe, Y., et al. (2003) *Angew. Chem., Int. Ed*. *42*, 1005−1008; Ozaki, S., et al. (1999) *Tetrahedron Asymmetry 10*, 183−192.

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