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Corrigendum

Corrigendum to “Asymmetric oxidation catalyzed by myoglobin mutants”

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Throughout the manuscript, the assignments of *R*- and *S*-isomer of sulfoxide products listed in Table 1 are erroneously reversed. This error occurred as a result of switching the chiral HPLC column used for identifying the sulfoxidation products from Daicel OB to Daicel OD during the course of the experiments. We were not aware that the retention times of the two enantiomers would be reversed.

Accordingly, the discussion described in the first sentence of the first paragraph of Section 2.4 *Substrate binding orientation*, should be revised as follows: ‘In the oxidation of thioanisole, dihydrobenzothiophene, and styrene by L29H/H64L Mb, the orientations of the substrates are essentially the same, suggesting that the approach of the substrate to the active oxo-Fe species should be the same’.

Figures 4 and 5 should be deleted.

It should be noted that we are making related corrections in seven related publications: *J. Am. Chem. Soc.*, **1996**, *118*, 9784–9785; *J. Am. Chem. Soc*. **1997**, *119*, 6666–6667; *J. Am. Chem. Soc.* **1999**, *121*, 9952–9957; *J. Am. Chem. Soc.* **2002**, *124*, 8506–8507; *J. Am. Chem. Soc.* **2005**, *127*, 6556–6562; *Biochemistry* **2003** *42*, 10174–10181; and *Angew. Chem., Int. Ed.* **2003**, *42*, 1005–1008.

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