Addition/Correction

# Coherence Spectroscopy Investigations of the Low-Frequency Vibrations of Heme: Effects of Protein-Specific Perturbations

Flaviu Gruia, Minoru Kubo, Xiong Ye, Dan Ionascu, Changyuan Lu, Robert K. Poole, Syun-Ru Yeh, and Paul M. Champion

*J. Am. Chem. Soc.*, **2008**, 130 (41), 13810-13810 • DOI: 10.1021/ja8067275 • Publication Date (Web): 19 September 2008

J|A|C|S
ADDITIONS AND CORRECTIONS

**Coherence Spectroscopy Investigations of the Low-Frequency Vibrations of Heme: Effects of Protein-Specific Perturbations** [*J. Am. Chem. Soc.* **2008,** *130,* 5231–5244]. Flaviu Gruia, Minoru Kubo, Xiong Ye, Dan Ionascu, Changyuan Lu, Robert K. Poole, Syun-Ru Yeh, and Paul M. Champion*

Page 5242. The normal coordinate structural decomposition (NSD) calculations in this paper had an error in the calculation of the *absolute scale* of the mass-weighted displacements determined from the X-ray structures. As a result, the horizontal axis of Figure 10 should be corrected as shown below. The conclusions in the paper, based on *relative* changes of the NSD-determined structural distortions, remain unchanged.

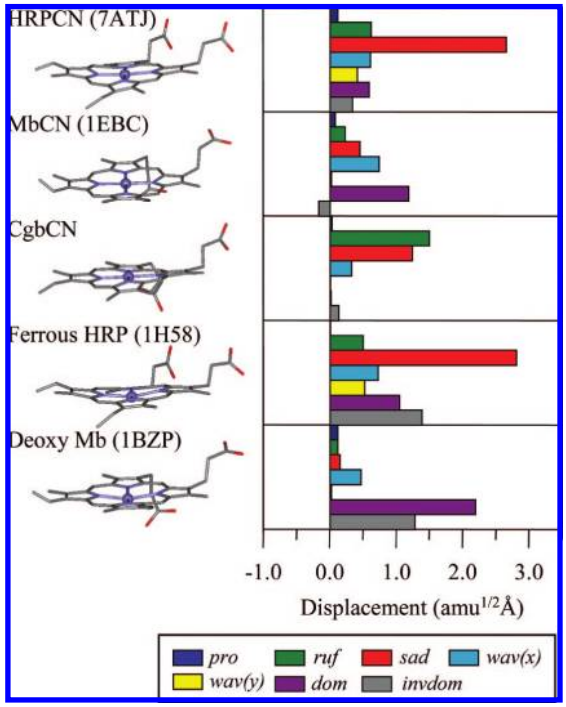


***Figure 10.*** Comparison of heme structures in HRP and Mb for the ferricyanide adducts and the ferrous forms. The heme in Cgb is shown for the ferricyanide adduct only. The NSD heme distortion analysis is in the right panel of the figure. A displacement of 1 amu$^{1/2}$ Å represents that the square root of the sum of squares of the displacements of Fe and 24 porphyrin (4 N, 20 C) atoms is 1 amu$^{1/2}$ Å. The color coding for the modes is pro, propellering (blue); ruf, ruffling (green); sad, saddling (red); wav(x), waving$_x$ (light blue); wav(y), waving$_y$ (yellow); dom, doming (purple); invdom, inverse doming (gray). The minus sign of displacement is defined only for doming and inverse doming to indicate the direction of Fe displacement (+, proximal; −, distal). The HRP and Mb structure files were downloaded from PDB, and all structures were visualized with ViewerLite. The PDB ID numbers are shown in parenthesis.

JA8067275

10.1021/ja8067275
Published on Web 09/19/2008

**Detection of Trace $Hg^{2+}$ via Induced Circular Dichroism of DNA Wrapped Around Single-Walled Carbon Nanotubes** [*J. Am. Chem. Soc.* **2008,** *130,* 9190–9191]. Xueyun Gao,* Gengmei Xing, Yanlian Yang, Xiaoli Shi, Ru Liu, Weiguo Chu, Long Jing, Feng Zhao, Chang Ye, Hui Yuan, Xiaohong Fang, Chen Wang, and Yuliang Zhao*

Page 9191. The following sentence was inadvertently omitted from the Acknowledgment paragraph: The CD data were collected at beam line 4B8 of the Beijing Synchrotron Radiation Facility (BSRF) with the help of Prof. Ye Tao.

JA8056453

10.1021/ja8056453
Published on Web 09/24/2008

**Lewis Acid-Catalyzed Intermolecular [4 + 2] Cycloaddition of 3-Alkoxycyclobutanones to Aldehydes and Ketones** [*J. Am. Chem. Soc.* **2008,** *130,* 11600–11601]. Jun-ichi Matsuo,* Shun Sasaki, Hiroyuki Tanaka, and Hiroyuki Ishibashi

Page 11601. The footnote *c* in Table 2 was cited incorrectly. The footnote *c* should be cited in entry 3 of column 1, and its citation in entry 4 should be removed.

JA806907A

10.1021/ja806907a
Published on Web 09/19/2008


**10.1021/ja8067275 CCC: $40.75** 