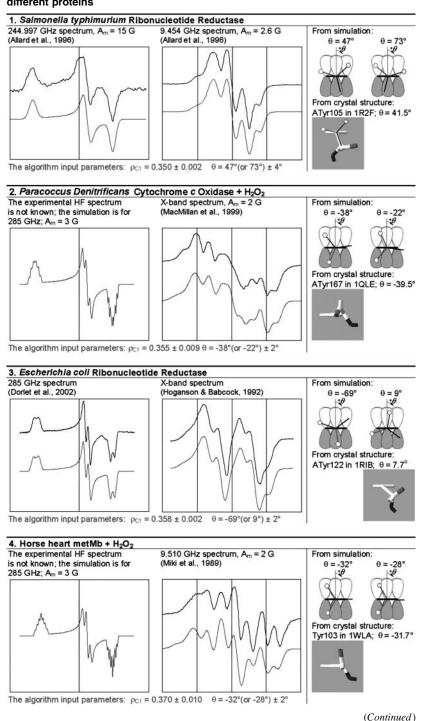
Svistunenko, Dimitri A., and Chris E. Cooper. 2004. A new method of identifying the site of tyrosyl radicals in proteins. *Biophys. J.* 87:582–595.

Table 1 did not print correctly. The correct table is as follows:

TABLE 1 The simulation of the HF and X-band EPR spectra of tyrosyl radical in different proteins



doi: 10.1529/biophysj.104.900110

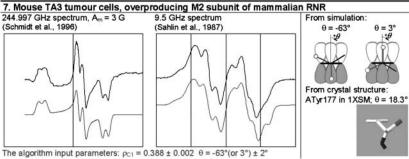
Correction 3615

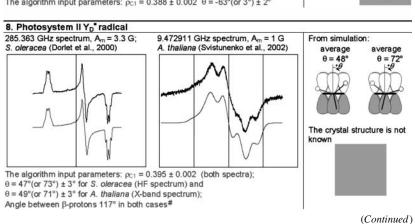
TABLE 1 (Continued)

5. Human metHb + H₂O₂ 9.797465 GHz spectrum, A_m = 2 G The experimental HF spectrum is not known; the simulation is for From simulation: (Svistunenko et al., 2002) $\theta = 67^{\circ}$ $\theta = 53^{\circ}$ 285 GHz; Am = 3 G From crystal structure: CTyr42 in 1HGB; $\theta = 49.8^{\circ}$ The algorithm input parameters: $\rho_{C1} = 0.375 \pm 0.010$ $\theta = 53^{\circ} (\text{or } 67^{\circ}) \pm 2^{\circ}$

From simulation: $\theta = 81^{\circ}$ $\theta = 39^{\circ}$ 1:0 From crystal structure: ATyr495 in 1PGF; $\theta = 38.0^{\circ}$ --- ΔH_x x 2.2 The algorithm input parameters: ρ_{C1} = 0.380 ± 0.003 θ = 39°(or 81°) ± 2°

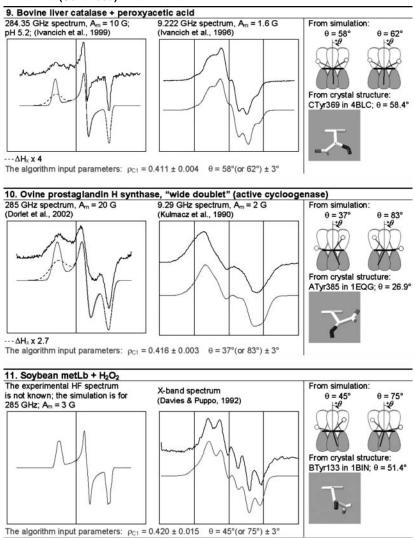
244.997 GHz spectrum, $A_m = 3$ G (Schmidt et al., 1996) 9.5 GHz spectrum (Sahlin et al., 1987)





3616 Correction

TABLE 1 (Continued)



In each box, the simulated spectrum is shown below the experimental one. All experimental spectra are taken from the literature. When experimental spectrum is not available, only the simulated one is present. In three cases (6, 9, and 10), the dashed trace corresponds to the spectrum simulated for a greater than the algorithm predicts *x*-component of the linewidth, all other parameters being generated by the algorithm. The optimal values of the algorithm input parameters ρ_{C1} and θ , used to calculate the simulation parameters (see Supplementary Material, *Simulation Data*), are indicated under the spectra. The radicals in the table are arranged by ascending ρ_{C1} . For each radical, the two optimal θ -angles, equivalent in terms of providing the simulation parameters, are compared with the θ -angle found from the crystal structure, the latter shown under the corresponding optimal angle. The tyrosine number and the Protein Data Bank (http://www.rcsb.org/pdb/) file, e.g., 1R2F for *S. typhimurium* RNR (Eriksson et al., 1998), are indicated. Other structure files quoted in the table were first presented in the articles: 1QLE (Harrenga and Michel, 1999), 1RIB (Nordlund and Eklund, 1993), 1WLA (Maurus et al., 1997), 1HGB (Liddington et al., 1992), 1PGF (Loll et al., 1996), 1XSM (Kauppi et al., 1996), 4BLC (Ko et al., 1999), 1EQG (Selinsky et al., 2001), and 1BIN (Hargrove et al., 1997). The details of 1), how the errors in optimal ρ_{C1} and θ were determined; 2), how the spectra were plotted on a common magnetic field axis; and 3), how the θ -values were found from the crystal structure, are all described in Software and Methods.

"The algorithm (available in Supplementary Material as the file calculator *algorithm.xls*) allows us to vary the angle between the projections of the bonds C_{β} - $H_{\beta 1}$ and C_{β} - $H_{\beta 2}$ to the *y*-*z* plane (default value is 120°). The photosynthetic Y_D radical is the only occasion when we exercised this option.