



Correction

Correction: Khan et al. Anticancer Function and ROS-Mediated Multi-Targeting Anticancer Mechanisms of Copper (II) 2-hydroxy-1-naphthaldehyde Complexes. *Molecules* 2019, 24, 2544

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Due to the previous incorrect characterization of compound **C1**, the authors wish to make the following corrections to this paper [1] published in *Molecules*.

In order to be easier for the reader to follow, a short text from the original manuscript is cited together with the respective modification.

In Section 2.1. Development and Structure of Cu^{2+} Complexes:

Original:

C1 was crystallized in the space group P21/n making a monoclinic structure. The molecular structure of the arrangement of the Cu (II) metal center is listed in Table 1. The Cu (II) metal center was pentacoordinate with two nitrogen atoms and an oxygen atom of the ligand and two terminal chlorine atoms. The distances of the Cu–N/O bonds ranged from 1913–2.02 Å (Table S1). The coordination of the polyhedron surrounding the Cu atom at the center could be displayed by a square pyramid, with the metal displaced from the N1/N2/O basal plane, ranging from 88–175.9° (Table S2).

This should be replaced with:

C1 was crystallized in the space group P21/n, making a monoclinic structure. The molecular structure of the arrangement of the Cu (II) metal center is listed in Table 1. The Cu (II) metal center was pentacoordinate, with two nitrogen atoms and an oxygen atom of the ligand, and one terminal chlorine atom. The distances of the Cu–N/O bonds ranged from 1.895 to 2.009 Å (Table S1). The coordination of the polyhedron surrounding the Cu atom at the center could be displayed by a square planar, with the metal displaced from the N1/N2/O basal plane, ranging from 82 to 176.7° (Table S2).

In Section 4.2.2. Synthesis of **C1**:

Original:

L and CuCl_2 (0.5 mmol) were stirred for 1 h at 65 °C to give a clear solution and then filtered. The filtrate was kept in the air for a week, forming blue-black crystals. The crystals were directly isolated, washed three times with distilled water, and dried in a vacuum desiccator containing anhydrous CaCl_2 . Yield: 83%. Anal. Calc for $\text{C}_{17}\text{H}_{13}\text{Cl}_2\text{CuN}_2\text{O}$ (395.75): C, 51.59; H, 3.31 and N, 8.68. Found: C, 51.51; H, 3.24 and N, 8.60. IR (Main Peak cm^{-1}): 3461.33, 3090.05, 1719, 1601.92, 1344.26, 761.53, 702.21. MS m/z : 396.75 (M + H)⁺ (Tables S1 and S2).

This should be replaced with:

L and CuCl_2 (0.5 mmol) were stirred for 1 h at 65 °C to give a clear solution and then filtered. The filtrate was kept in the air for a week, forming blue-black crystals. The crystals were directly isolated, washed three times with distilled water, and dried in a vacuum desiccator containing anhydrous CaCl_2 . Yield: 83%. Anal. Calc for $\text{C}_{17}\text{H}_{13}\text{ClCuN}_2\text{O}$ (324.03): C, 56.67; H, 3.64 and N, 7.78. Found: C, 56.61; H, 3.70 and N, 7.72. IR (Main Peak cm^{-1}): 3461.33, 3090.05, 1719, 1601.92, 1344.26, 761.53, 702.21. MS m/z : 324.03 (M – Cl)⁺ (Tables S1 and S2).



Citation: Khan, M.H.; Cai, M.; Deng, J.; Yu, P.; Liang, H.; Yang, F.

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Received: 10 December 2020

Accepted: 16 June 2021

Published: 8 October 2021

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The Figure 1 should be replaced with the following version:

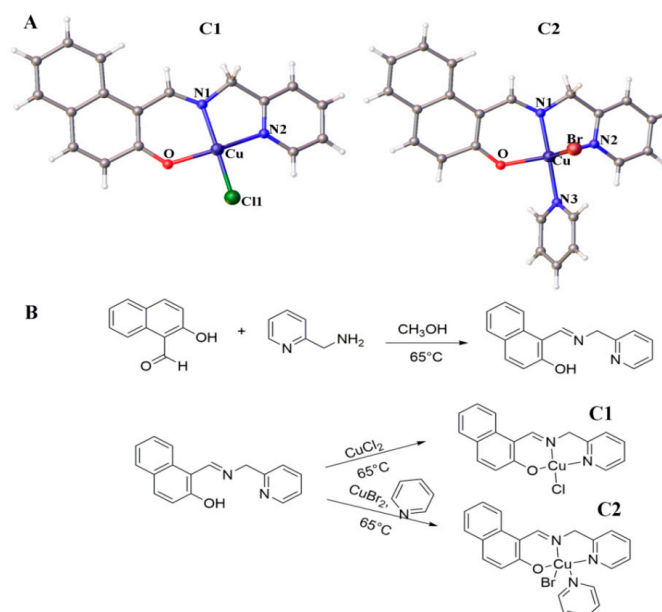


Figure 1. (A) Chemical structures of Cu²⁺ compounds. (B) Synthetic routes of Cu²⁺ compounds (C1 and C2).

The Table 1 should be replaced with the following version:

Table 1. Crystal data of the Cu (II) complexes (C1 and C2).

| Identification Code | C1 | C2 |
|--|--|--|
| Empirical formula | C ₁₇ H ₁₃ ClCuN ₂ O | C ₂₂ H ₁₈ BrCuN ₃ O |
| Formula weight | 360.30 | 483.86 |
| Temperature/K | 296.15 | 296.15 |
| Crystal system | monoclinic | monoclinic |
| Space group | P21/n | P21/n |
| a/Å | 8.100(6) | 8.6992(9) |
| b/Å | 8.632(7) | 13.6084(14) |
| c/Å | 21.270(16) | 16.4250(18) |
| α/° | 90 | 90 |
| β/° | 100.245(12) | 90.070(2) |
| γ/° | 90 | 90 |
| Volume/Å ³ | 1463.4(19) | 1944.4(4) |
| Z | 4 | 4 |
| ρ _{calc} /cm ³ | 1.6353 | 1.6527 |
| μ(Mo-Kα) mm ⁻¹ | 1.677 | 3.196 |
| F(000) | 734.2 | 972.6 |
| Data/restraints/parameters | 3007/0/199 | 4211/0/253 |
| Goodness of fit on F ² | 1.054 | 1.027 |
| Final R indexes (I ≥ 2σ (I)) | R1 = 0.0421 wR2 = 0.1358 | R1 = 0.0375 wR2 = 0.1023 |
| Largest diff. peak/hole /e Å ⁻³ | 0.63/−0.69 | 0.86/−0.46 |

All co-authors agree with the content of this correction and wish to apologize for any inconvenience to the readers resulting from this error.

Reference

1. Khan, M.H.; Cai, M.; Deng, J.; Yu, P.; Liang, H.; Yang, F. Anticancer Function and ROS-Mediated Multi-Targeting Anticancer Mechanisms of Copper (II) 2-hydroxy-1-naphthaldehyde Complexes. *Molecules* **2019**, *24*, 2544. [[CrossRef](#)] [[PubMed](#)]