

## Correction



# Correction: Alzheimer's A $\beta$ Peptides with Disease-Associated N-Terminal Modifications: Influence of Isomerisation, Truncation and Mutation on Cu $^{2+}$ Coordination

The PLOS ONE Staff

There are errors in Table 2. Please see the corrected Table 2 below.

**Table 2.** SH parameters corresponding to the different coordination modes of various Cu $^{2+}$ /A $\beta$ x-16 complexes.

Peptide	$g_{  }$	$g_{\perp}$	$A_{  }(\text{Cu}^{63})^a$	$A_{\perp}(\text{Cu}^{63})^a$	$a_{iso}$ (ligand nuclei)	Ref
<b>A<math>\beta</math>1[isoAsp]-16</b>						
{NH <sub>2</sub> <sup>D1</sup> , COO <sup>-D1</sup> , N <sub>Im</sub> , N <sub>Im</sub> }	2.255 ± 0.002	2.054 ± 0.002	185 ± 2	14.3 ± 0.5	10.6 ± 0.5 ( <sup>14</sup> NH <sub>2</sub> <sup>D1</sup> ) 13.1 ± 0.5 ( <sup>14</sup> N- <sub>Im</sub> ) 14.7 ± 0.5 ( <sup>14</sup> N- <sub>Im</sub> )	This work <sup>c</sup>
<b>A<math>\beta</math>1-16, A<math>\beta</math>1-16(A2V)</b>						
{NH <sub>2</sub> <sup>D1</sup> , CO <sup>D1</sup> , N <sub>Im</sub> <sup>H6</sup> , N <sub>Im</sub> <sup>H13/H14</sup> } ("component Ia/b'")	2.272 ± 0.005	2.056 ± 0.005	171 ± 3	14.5 ± 0.5	11.3 ± 0.5 ( <sup>14</sup> NH <sub>2</sub> <sup>D1</sup> ) 13.0 ± 0.5 ( <sup>14</sup> N- <sub>Im</sub> <sup>H6</sup> ) 14.0 ± 0.5 ( <sup>14</sup> N <sub>Im</sub> <sup>H13/H14</sup> )	[15,16], this work <sup>b,c</sup>
{CO <sup>A2,V2</sup> , N <sub>Im</sub> <sup>H6</sup> , N <sub>Im</sub> <sup>H13</sup> , N <sub>Im</sub> <sup>H14</sup> } ("component II'") <sup>d</sup>	2.227 ± 0.003	2.043 ± 0.003	157 ± 3	21.0 ± 1.0	15.0 ± 1.0 ( <sup>14</sup> N- <sub>Im</sub> <sup>H6</sup> ) 12.5 ± 1.0 ( <sup>14</sup> N- <sub>Im</sub> <sup>H13</sup> ) 12.5 ± 1.0 ( <sup>14</sup> N- <sub>Im</sub> <sup>H14</sup> )	[15,16], this work <sup>b,c</sup>
<b>A<math>\beta</math>3-16, A<math>\beta</math>3[pE]-16</b>						
{3N1O} "low pH" <sup>e</sup>	2.261 ± 0.002	2.053 ± 0.002	183 ± 1	16.8 ± 0.5	12.1 ± 0.5 ( <sup>14</sup> N <sub>1</sub> ) 14.3 ± 0.5 ( <sup>14</sup> N <sub>2</sub> ) 15.9 ± 0.5 ( <sup>14</sup> N <sub>3</sub> )	This work <sup>b</sup>
{4N} "high pH" <sup>f</sup>	2.194 ± 0.002	2.034 ± 0.002	193 ± 1	16.3 ± 0.5	10.6 ± 0.5 ( <sup>14</sup> N <sub>1</sub> ) 13.2 ± 0.5 ( <sup>14</sup> N <sub>2</sub> ) 14.2 ± 0.5 ( <sup>14</sup> N <sub>3</sub> ) 16.1 ± 0.5 ( <sup>14</sup> N <sub>4</sub> )	This work <sup>b</sup>
<b>A<math>\beta</math>4-16</b>						
{4N}	2.178 ± 0.001	2.049	209 ± 1	n.d. <sup>g</sup>	n.d.	[50]

<sup>a</sup>All hyperfine parameters are expressed in units of  $A_i [10^{-4}\text{cm}^{-1}] = A_i [\text{MHz}] / 2.9979 = A_i [\text{G}] \times 10^4(g_i\beta_e/hc)$ , where  $i = ||$  or  $\perp$ ,  $h$  is Plank's constant,  $c = 2.9979 \times 10^{10}\text{cm.s}^{-1}$  and  $\beta_e = 9.274 \times 10^{-28}\text{J.G}^{-1}$ . <sup>b</sup>To aid comparison with other work in which natural abundance copper (69% <sup>63</sup>Cu, 31% <sup>65</sup>Cu) has been used, hyperfine couplings have been converted from <sup>65</sup>Cu to those expected for <sup>63</sup>Cu using the scaling factor  $|g_n(\text{Cu}^{65}) / g_n(\text{Cu}^{63})| = 1.07$ . Uncertainties in parameters represent the estimated range. <sup>c</sup>SH parameters from simulation of wt peptide [15]. <sup>d</sup>{NH<sub>2</sub><sup>D1</sup>, N<sub>am</sub><sup>A2</sup>, CO<sup>A2</sup>, N<sub>Im</sub><sup>H6</sup>} coordination has also been proposed [17]. <sup>e</sup>Parameters based upon simulation of Cu $^{2+}$ /A $\beta$ 3[pE]-16 at pH 6.9. <sup>f</sup>Parameters based upon simulation of Cu $^{2+}$ /A $\beta$ 3-16 at pH 8.5. <sup>g</sup>n.d. = not determined.

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## Reference

1. Drew SC, Masters CL, Barnham KJ (2010) Alzheimer's A $\beta$  Peptides with Disease-Associated N-Terminal Modifications: Influence of Isomerisation, Truncation and Mutation on Cu $^{2+}$  Coordination. PLoS ONE 5(12): e15875. doi:10.1371/journal.pone.0015875

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