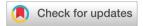
## Dalton Transactions



## CORRECTION

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## Correction: C-H nickellation of phenol-derived phosphinites: regioselectivity and structures of cyclonickellated complexes

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139.43 (d, 1C,  $C4_{Ar}$ -H,  ${}^{4}J_{CP}$  = 2.7)

Correction for 'C-H nickellation of phenol-derived phosphinites: regioselectivity and structures of cyclonickellated complexes' by Loïc P. Mangin *et al.*, *Dalton Trans.*, 2017, **46**, 16159–16170, DOI: 10.1039/C7DT03403B.

We have noticed that the following incorrectly assigned NMR data need correcting:

1. In the NMR data given for compound 1e, the assignments of  $C3_{Ar}$ -H and  $C4_{Ar}$ -H should be switched. This assignment was not discussed in the main body of the report, and so a correction of only the data given in the Experimental section is sufficient. The  $^{1}$ H NMR and  $^{13}$ C data for compound 1e, given in the left column of page 16168, should be changed as follows:

```
Incorrectly assigned ^{1}H NMR data for 1e 6.70 (ddd, 1H, C3<sub>Ar</sub>–H, ^{3}J_{HH} = 8.0, ^{4}J_{HP} = 2.1, ^{5}J_{HH} = 1.0) 7.12 (dd, 1H, C4<sub>Ar</sub>–H, ^{3}J_{HH} = 8.0, ^{5}J_{HP} = 1.0) Incorrectly assigned ^{13}C NMR data for 1e 120.66 (d, 1C, ^{23}<sub>Ar</sub>–H, ^{3}^{3}<sub>CP</sub> = 1.6)
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Corrected assignments for ^{1}H NMR data for 1e 6.70 (ddd, 1H, C4<sub>Ar</sub>-^{2}H, ^{3}J<sub>HH</sub> = 8.0, ^{4}J<sub>HH</sub> = 2.1, ^{5}J<sub>HP</sub> = 1.0) 7.12 (dd, 1H, C3<sub>Ar</sub>-^{2}H, ^{3}J<sub>HH</sub> = 8.0, ^{4}J<sub>HP</sub> = 1.0)
```

Corrected assignments for  $^{13}$ C NMR data for **1e** 120.66 (d, 1C,  $C4_{Ar}$ -H,  $^{4}J_{CP}$  = 1.6) 139.43 (d, 1C,  $C3_{Ar}$ -H,  $^{3}J_{CP}$  = 2.7)

Incorrect assignment: "¹H NMR (500 MHz, 20 °C, CD<sub>3</sub>CN):  $\delta$  1.31 (dd, 6H, CH(CH<sub>3</sub>)(CH<sub>3</sub>),  ${}^3J_{\rm HH}$  = 7.0,  ${}^3J_{\rm HP}$  = 15.2), 1.46 (dd, 6H, CH(CH<sub>3</sub>)(CH<sub>3</sub>),  ${}^3J_{\rm HH}$  = 7.2,  ${}^3J_{\rm HP}$  = 17.6), 2.45 (oct, 2H, CH(CH<sub>3</sub>)<sub>2</sub>,  ${}^3J_{\rm HH}$   $\approx$   ${}^2J_{\rm HP}$  = 7.2), 6.69 (s, 1H, C6<sub>Ar</sub>-H), 6.70 (ddd, 1H, C3<sub>Ar</sub>-H,  ${}^3J_{\rm HH}$  = 8.0,  ${}^4J_{\rm HP}$  = 2.1,  ${}^5J_{\rm HH}$  = 1.0), 7.12 (dd, 1H, C4<sub>Ar</sub>-H,  ${}^3J_{\rm HH}$  = 8.0,  ${}^5J_{\rm HP}$  = 1.0).  ${}^{13}$ C{¹H} NMR (125.7 MHz, 20 °C, CD<sub>3</sub>CN):  $\delta$  16.39 (d, 2C, CH(CH<sub>3</sub>)(CH<sub>3</sub>),  ${}^2J_{\rm CP}$  = 1.9), 18.00 (d, 2C, CH(CH<sub>3</sub>)(CH<sub>3</sub>),  ${}^2J_{\rm CP}$  = 2.7), 28.73 (d, 2C, CH(CH<sub>3</sub>)(CH<sub>3</sub>),  ${}^1J_{\rm CP}$  = 28.8), 110.44 (d, 1C, C6<sub>Ar</sub>-H,  ${}^3J_{\rm CP}$  = 13.5), 120.66 (d, 1C, C3<sub>Ar</sub>-H,  ${}^3J_{\rm CP}$  = 1.6), 131.74 (s, 1C, C5<sub>Ar</sub>-Cl), 132.09 (d, 1C, C2<sub>Ar</sub>-Ni,  ${}^2J_{\rm CP}$  = 34.2), 139.43 (d, 1C, C4<sub>Ar</sub>-H,  ${}^4J_{\rm CP}$  = 2.7), 167.35 (d, 1C, C1<sub>Ar</sub>-OP,  ${}^2J_{\rm CP}$  = 12.8)."

Corrected assignment: "¹H NMR (500 MHz, 20 °C, CD<sub>3</sub>CN):  $\delta$  1.31 (dd, 6H, CH(CH<sub>3</sub>)(CH<sub>3</sub>),  ${}^{3}J_{\rm HH}$  = 7.0,  ${}^{3}J_{\rm HP}$  = 15.2), 1.46 (dd, 6H, CH(CH<sub>3</sub>)(CH<sub>3</sub>),  ${}^{3}J_{\rm HH}$  = 7.2,  ${}^{3}J_{\rm HP}$  = 17.6), 2.45 (oct, 2H, CH(CH<sub>3</sub>)<sub>2</sub>,  ${}^{3}J_{\rm HH}$   $\approx$   ${}^{2}J_{\rm HP}$  = 7.2), 6.69 (s, 1H, C6<sub>Ar</sub>-H), 6.70 (ddd, 1H, C4<sub>Ar</sub>-H,  ${}^{3}J_{\rm HH}$  = 8.0,  ${}^{4}J_{\rm HH}$  = 8.0,  ${}^{4}J_{\rm HH}$  = 2.1,  ${}^{5}J_{\rm HP}$  = 1.0), 7.12 (dd, 1H, C3<sub>Ar</sub>-H,  ${}^{3}J_{\rm HH}$  = 8.0,  ${}^{4}J_{\rm HP}$  = 1.0). <sup>13</sup>C{¹H} NMR (125.7 MHz, 20 °C, CD<sub>3</sub>CN):  $\delta$  16.39 (d, 2C, CH(CH<sub>3</sub>)(CH<sub>3</sub>),  ${}^{2}J_{\rm CP}$  = 1.9), 18.00 (d, 2C, CH(CH<sub>3</sub>)(CH<sub>3</sub>),  ${}^{2}J_{\rm CP}$  = 2.7), 28.73 (d, 2C, CH(CH<sub>3</sub>)(CH<sub>3</sub>),  ${}^{1}J_{\rm CP}$  = 28.8), 110.44 (d, 1C, C6<sub>Ar</sub>-H,  ${}^{3}J_{\rm CP}$  = 13.5), 120.66 (d, 1C, C4<sub>Ar</sub>-H,  ${}^{4}J_{\rm CP}$  = 1.6), 131.74 (s, 1C, C5<sub>Ar</sub>-Cl), 132.09 (d, 1C, C2<sub>Ar</sub>-Ni,  ${}^{2}J_{\rm CP}$  = 34.2), 139.43 (d, 1C, C3<sub>Ar</sub>-H,  ${}^{3}J_{\rm CP}$  = 2.7), 167.35 (d, 1C, C1<sub>Ar</sub>-OP,  ${}^{2}J_{\rm CP}$  = 12.8)."

2. In the <sup>13</sup>C NMR data for compound **1k**, the C-P coupling patterns were incorrectly interpreted. This interpretation was discussed in the last part of the discussion and the data given in the Experimental section also needs to be corrected.

The last paragraph of the Results & discussion section (page 16166, left column, "Very informative coupling [...] detected at all") should be disregarded.

The <sup>13</sup>C NMR data for compound 1k, given in the left column of page 16169, should be changed as follows:

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Incorrectly assigned ^{13}C NMR data for 1k 125.16 (d, 1C, C_{3Ar}–H, ^{3}_{JCP} = 12.1) 127.99 (d, 2C, m-C_{Ar}–H (Ph), J_{CP} = 139.5) 129.12 (d, 2C, o-C_{Ar}–H (Ph), J_{CP} = 106.8) 138.64 (d, 1C, C_{5Ar}–H, ^{5}_{JCP} = 2.7) 139.78 (s, 1C, p-_{CAr}–H (Ph)) C_{qAr}–Ar were not detected
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Corrected assignments for ^{13}C NMR data for 1\mathbf{k} 125.16 (d, 1C, C6_{\mathrm{Ar}}-Ph, ^{4}J_{\mathrm{CP}} = 12.1) 127.43 (s, 1C, p-C_{\mathrm{Ar}}-H (Ph)), 128.55 (s, 1C, C5_{\mathrm{Ar}}-H) 128.69 (s, 2C, m-C_{\mathrm{Ar}}-H (Ph)), 129.55 (s, 2C, o-C_{\mathrm{Ar}}-H (Ph)) 138.64 (d, 1C, C3_{\mathrm{Ar}}-H, ^{3}J_{\mathrm{CP}} = 2.7) 139.78 (s, 1C, pso-C_{\mathrm{Ar}} (Ph))
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Correction

Incorrect assignment: "\$^{13}C{^{1}H}\$ NMR (125.7 MHz, 20 °C, CD\_3CN): \$\delta\$ 16.98 (d, 2C, CH(CH\_3)(CH\_3), \$^{2}J\_{CP} = 1.9\$), 18.50 (d, 2C, CH(CH\_3)(CH\_3), \$^{2}J\_{CP} = 2.7\$), 29.14 (d, 2C, CH(CH\_3)(CH\_3), \$^{1}J\_{CP} = 29.4\$), 122.21 (d, 1C, \$C4\_{Ar}\$-H, \$^{4}J\_{CP} = 1.9\$), 125.16 (d, 1C, \$C3\_{Ar}\$-H, \$^{3}J\_{CP} = 12.1\$), 127.99 (d, 2C, \$m\$-\$C\_{Ar}\$-H (Ph), \$J\_{CP} = 139.5\$), 129.12 (d, 2C, \$o\$-\$C\_{Ar}\$-H (Ph), \$J\_{CP} = 106.8\$), 135.65 (d, 1C, \$C2\_{Ar}\$-Ni, \$^{2}J\_{CP} = 33.0\$), 138.64 (d, 1C, \$C5\_{Ar}\$-H, \$^{5}J\_{CP} = 2.7\$), 139.78 (s, 1C, \$p\$-\$C\_{Ar}\$-H (Ph)), 163.78 (d, 1C, \$C1\_{Ar}\$-OP, \$^{2}J\_{CP} = 12.6\$), \$C\_{qAr}\$-Ar were not detected." Corrected assignment: "\$^{13}C{^{1}H}\$ NMR (125.7 MHz, 20 °C, CD\_3CN): \$\delta\$ 16.98 (d, 2C, CH(CH\_3)(CH\_3), \$^{2}J\_{CP} = 1.9\$), 18.50 (d, 2C, CH(CH\_3)(CH\_3), \$^{2}J\_{CP} = 2.7\$), 29.14 (d, 2C, CH(CH\_3)(CH\_3), \$^{1}J\_{CP} = 29.4\$), 122.21 (d, 1C, \$C4\_{Ar}\$-H, \$^{4}J\_{CP} = 1.9\$), 125.16 (d, 1C, \$C6\_{Ar}\$-Ph, \$^{4}J\_{CP} = 12.1\$), 127.43 (s, 1C, \$p\$-\$C\_{Ar}\$-H (Ph)), 128.55 (s, 1C, \$C5\_{Ar}\$-H), 128.69 (s, 2C, \$m\$-\$C\_{Ar}\$-H (Ph)), 129.55 (s, 2C, \$o\$-\$C\_{Ar}\$-H (Ph)), 135.65 (d, 1C, \$C2\_{Ar}\$-Ni, \$^{2}J\_{CP} = 33.0\$), 138.64 (d, 1C, \$C3\_{Ar}\$-H, \$^{3}J\_{CP} = 2.7\$), 139.78 (s, 1C, \$ipso\$-\$C\_{Ar}\$ (Ph)), 163.78 (d, 1C, \$C1\_{Ar}\$-OP, \$^{2}J\_{CP} = 12.6\$)." The Royal Society of Chemistry apologises for these errors and any consequent inconvenience to authors and readers.