

CORRECTION

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

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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 ¹H NMR and ¹³C data for compound **1e**, given in the left column of page 16168, should be changed as follows:

Incorrectly assigned ¹H NMR data for **1e**
6.70 (ddd, 1H, C3_{Ar}–H, ³J_{HH} = 8.0, ⁴J_{HP} = 2.1, ⁵J_{HH} = 1.0)
7.12 (dd, 1H, C4_{Ar}–H, ³J_{HH} = 8.0, ⁵J_{HP} = 1.0)

Corrected assignments for ¹H NMR data for **1e**
6.70 (ddd, 1H, C4_{Ar}–H, ³J_{HH} = 8.0, ⁴J_{HH} = 2.1, ⁵J_{HP} = 1.0)
7.12 (dd, 1H, C3_{Ar}–H, ³J_{HH} = 8.0, ⁴J_{HP} = 1.0)

Incorrectly assigned ¹³C NMR data for **1e**
120.66 (d, 1C, C3_{Ar}–H, ³J_{CP} = 1.6)
139.43 (d, 1C, C4_{Ar}–H, ⁴J_{CP} = 2.7)

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

Incorrect assignment: “¹H NMR (500 MHz, 20 °C, CD₃CN): δ 1.31 (dd, 6H, CH(CH₃)(CH₃), ³J_{HH} = 7.0, ³J_{HP} = 15.2), 1.46 (dd, 6H, CH(CH₃)(CH₃), ³J_{HH} = 7.2, ³J_{HP} = 17.6), 2.45 (oct, 2H, CH(CH₃)₂, ³J_{HH} ≈ ²J_{HP} = 7.2), 6.69 (s, 1H, C6_{Ar}–H), 6.70 (ddd, 1H, C3_{Ar}–H, ³J_{HH} = 8.0, ⁴J_{HP} = 2.1, ⁵J_{HH} = 1.0), 7.12 (dd, 1H, C4_{Ar}–H, ³J_{HH} = 8.0, ⁵J_{HP} = 1.0). ¹³C{¹H} NMR (125.7 MHz, 20 °C, CD₃CN): δ 16.39 (d, 2C, CH(CH₃)(CH₃), ²J_{CP} = 1.9), 18.00 (d, 2C, CH(CH₃)(CH₃), ²J_{CP} = 2.7), 28.73 (d, 2C, CH(CH₃)(CH₃), ¹J_{CP} = 28.8), 110.44 (d, 1C, C6_{Ar}–H, ³J_{CP} = 13.5), 120.66 (d, 1C, C3_{Ar}–H, ³J_{CP} = 1.6), 131.74 (s, 1C, C5_{Ar}–Cl), 132.09 (d, 1C, C2_{Ar}–Ni, ²J_{CP} = 34.2), 139.43 (d, 1C, C4_{Ar}–H, ⁴J_{CP} = 2.7), 167.35 (d, 1C, C1_{Ar}–OP, ²J_{CP} = 12.8).”

Corrected assignment: “¹H NMR (500 MHz, 20 °C, CD₃CN): δ 1.31 (dd, 6H, CH(CH₃)(CH₃), ³J_{HH} = 7.0, ³J_{HP} = 15.2), 1.46 (dd, 6H, CH(CH₃)(CH₃), ³J_{HH} = 7.2, ³J_{HP} = 17.6), 2.45 (oct, 2H, CH(CH₃)₂, ³J_{HH} ≈ ²J_{HP} = 7.2), 6.69 (s, 1H, C6_{Ar}–H), 6.70 (ddd, 1H, C4_{Ar}–H, ³J_{HH} = 8.0, ⁴J_{HP} = 2.1, ⁵J_{HP} = 1.0), 7.12 (dd, 1H, C3_{Ar}–H, ³J_{HH} = 8.0, ⁴J_{HP} = 1.0). ¹³C{¹H} NMR (125.7 MHz, 20 °C, CD₃CN): δ 16.39 (d, 2C, CH(CH₃)(CH₃), ²J_{CP} = 1.9), 18.00 (d, 2C, CH(CH₃)(CH₃), ²J_{CP} = 2.7), 28.73 (d, 2C, CH(CH₃)(CH₃), ¹J_{CP} = 28.8), 110.44 (d, 1C, C6_{Ar}–H, ³J_{CP} = 13.5), 120.66 (d, 1C, C4_{Ar}–H, ⁴J_{CP} = 1.6), 131.74 (s, 1C, C5_{Ar}–Cl), 132.09 (d, 1C, C2_{Ar}–Ni, ²J_{CP} = 34.2), 139.43 (d, 1C, C3_{Ar}–H, ³J_{CP} = 2.7), 167.35 (d, 1C, C1_{Ar}–OP, ²J_{CP} = 12.8).”

2. In the ¹³C 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 ¹³C NMR data for compound **1k**, given in the left column of page 16169, should be changed as follows:

Incorrectly assigned ¹³C NMR data for **1k**
125.16 (d, 1C, C3_{Ar}–H, ³J_{CP} = 12.1)
127.99 (d, 2C, *m*-C_{Ar}–H (Ph), ³J_{CP} = 139.5)
129.12 (d, 2C, *o*-C_{Ar}–H (Ph), ³J_{CP} = 106.8)
138.64 (d, 1C, C5_{Ar}–H, ⁵J_{CP} = 2.7)
139.78 (s, 1C, *p*-C_{Ar}–H (Ph))
C_{qAr}–Ar were not detected

Corrected assignments for ¹³C NMR data for **1k**
125.16 (d, 1C, C6_{Ar}–Ph, ⁴J_{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))
138.64 (d, 1C, C3_{Ar}–H, ³J_{CP} = 2.7)
139.78 (s, 1C, *ipso*-C_{Ar} (Ph))

Incorrect assignment: $^{13}\text{C}\{^1\text{H}\}$ NMR (125.7 MHz, 20 °C, CD_3CN): δ 16.98 (d, 2C, $\text{CH}(\text{CH}_3)(\text{CH}_3)$, $^2J_{\text{CP}} = 1.9$), 18.50 (d, 2C, $\text{CH}(\text{CH}_3)(\text{CH}_3)$, $^2J_{\text{CP}} = 2.7$), 29.14 (d, 2C, $\text{CH}(\text{CH}_3)(\text{CH}_3)$, $^1J_{\text{CP}} = 29.4$), 122.21 (d, 1C, $\text{C}4_{\text{Ar}}\text{-H}$, $^4J_{\text{CP}} = 1.9$), 125.16 (d, 1C, $\text{C}3_{\text{Ar}}\text{-H}$, $^3J_{\text{CP}} = 12.1$), 127.99 (d, 2C, $m\text{-C}_{\text{Ar}}\text{-H}$ (Ph), $J_{\text{CP}} = 139.5$), 129.12 (d, 2C, $o\text{-C}_{\text{Ar}}\text{-H}$ (Ph), $J_{\text{CP}} = 106.8$), 135.65 (d, 1C, $\text{C}2_{\text{Ar}}\text{-Ni}$, $^2J_{\text{CP}} = 33.0$), 138.64 (d, 1C, $\text{C}5_{\text{Ar}}\text{-H}$, $^5J_{\text{CP}} = 2.7$), 139.78 (s, 1C, $p\text{-C}_{\text{Ar}}\text{-H}$ (Ph)), 163.78 (d, 1C, $\text{C}1_{\text{Ar}}\text{-OP}$, $^2J_{\text{CP}} = 12.6$), $\text{C}_{\text{qAr}}\text{-Ar}$ were not detected.”

Corrected assignment: $^{13}\text{C}\{^1\text{H}\}$ NMR (125.7 MHz, 20 °C, CD_3CN): δ 16.98 (d, 2C, $\text{CH}(\text{CH}_3)(\text{CH}_3)$, $^2J_{\text{CP}} = 1.9$), 18.50 (d, 2C, $\text{CH}(\text{CH}_3)(\text{CH}_3)$, $^2J_{\text{CP}} = 2.7$), 29.14 (d, 2C, $\text{CH}(\text{CH}_3)(\text{CH}_3)$, $^1J_{\text{CP}} = 29.4$), 122.21 (d, 1C, $\text{C}4_{\text{Ar}}\text{-H}$, $^4J_{\text{CP}} = 1.9$), 125.16 (d, 1C, $\text{C}6_{\text{Ar}}\text{-Ph}$, $^4J_{\text{CP}} = 12.1$), 127.43 (s, 1C, $p\text{-C}_{\text{Ar}}\text{-H}$ (Ph)), 128.55 (s, 1C, $\text{C}5_{\text{Ar}}\text{-H}$), 128.69 (s, 2C, $m\text{-C}_{\text{Ar}}\text{-H}$ (Ph)), 129.55 (s, 2C, $o\text{-C}_{\text{Ar}}\text{-H}$ (Ph)), 135.65 (d, 1C, $\text{C}2_{\text{Ar}}\text{-Ni}$, $^2J_{\text{CP}} = 33.0$), 138.64 (d, 1C, $\text{C}3_{\text{Ar}}\text{-H}$, $^3J_{\text{CP}} = 2.7$), 139.78 (s, 1C, $ipso\text{-C}_{\text{Ar}}$ (Ph)), 163.78 (d, 1C, $\text{C}1_{\text{Ar}}\text{-OP}$, $^2J_{\text{CP}} = 12.6$).

The Royal Society of Chemistry apologises for these errors and any consequent inconvenience to authors and readers.

