Correction to: Morphometric analysis of Chattian–Early Aquitanian Miogypsinidae from Iraq and their stratigraphic distribution in the Arabian Tethys

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Published online: 15 January 2018
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Correction to: Arab J Geosci (2017) 10:542
<https://doi.org/10.1007/s12517-017-3311-7>

The original version of this article, unfortunately, contained errors.

Corrections in Figures and Plates were incorrectly carried out. Given in this article is the correct list of images.

The original article was corrected.

The online version of the original article can be found at <https://doi.org/10.1007/s12517-017-3311-7>

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Fig. 1 Location of the studied wells and outcrop. Source:Google Earth (www.googleearth.com)

Fig. 2 General stratigraphy of the Oligocene–Miocene sediment sequence (Baba and Azkand Formation) from Khabaz-9, Kurmur-3 and Bai-Hassan-25 boreholes and the Qarah Chauq Dag section

Fig. 3 Schematic drawing showing the methods of counting and measuring the internal features in horizontally sectioned embryonic stages of the megalospheric form (most parameters are explained in Table 1). a Single-spiralled Miogypsinids (A–F apical–frontal axis, P–D embryonic axis, $X = 12$; $Y = 5$, and $\gamma^\circ = \text{negative}$). b Miogypsinids with two primary auxiliary chamberlets (PAC). $\gamma^\circ = \text{positive}$ (Amato and Drooger 1969; Drooger 1952, 1963)

Fig. 4 Scatter diagrams of P–X values on the left and D–Y values on the right in Miogypsinids assemblages from Kurmur well-3 of the Azkand Formation and Bia-Hassan well-25 of the Baba Formation

Plate 1 All A-forms. Magnification, $\times 40$. 1–17: *Miogypsina gunteri* Cole. Khabaz well-9, early lower Aquitanian, depth 2255 m. 1–8: Equatorial sections. M/Khabaz 22. 1 (2–1), 2 (3), 3 (9–2), 4 (5–4), 5 (5), 6 (11–6), 7 (12–1), 8 (15–1). 9–10: Axial sections. M/Khabaz 22. 9 (2–1), 10 (8–1). 11–17: Equatorial sections. M/Khabaz 22. 11 (19–2), 12

(17–3), 13 (18–1), 14 (18–3), 15 (18–5), 16 (6), 17 (25–1). 18–21: *Miogypsina ex. interc.* Tani Drooger-gunteri Cole, Khabaz well-9, lower Aquitanian, Depth 2252 m. Equatorial sections. M/Khabaz 23. 18 (3), 19 (6), 20 (3–3), 21 (19–2)

Plate 2 All A-forms. Magnification, $\times 40$. 1–12: *Miogypsina* ex. interc. Gunteri Cole–basraensis Bronnimann, Khabaz well-9, early lower Aquitanian, depth 2258 m., equatorial section. M/Khabaz 21. 1 (2–2), 2 (3–1), 3 (3–2), 4 (6), 5 (6–1), 6 (25–1), 7 (8), 8 (14–1), 9 (14–2), 10 (14–3), 11 (6), 12 (24). 13–15: *Miogypsina* basraensis Bronnimann, Bia-Hassan 25, late Oligocene (Chattian). Equatorial section. M/Bia-

Hassan. 13 (3–1), depth 1396m. 14 (3–2), depth 1396m. 15 (6–3), depth 1375 m. 16–21: *Miogypsinoides* sivasensis Özcan and Less, 2009, Qarah Chauq Dag section, early lower Aquitanian. equatorial section. 16 M/Qarah Chauq 12–1, 17 M/Qarah Chauq 12, 18 M/Qarah Chauq 12–2, 19 M/Qarah Chauq 12–3, 20 M/Qarah Chauq 17 C, 21M/Qarah Chauq 20 d

Plate 3 All A-forms. Magnification, $\times 40$. 1–6: *Miogypsinoides formosensis* Yabe and Hanzawa 1928, Qarah Chauq Dagh section. Late Oligocene (Chattian), equatorial section. 1 Ms/Qarah Chauq 3C-3, 2 Ms/Qarah Chauq 3C-9, 3 Ms/Qarah Chauq 3E-1, 4 Ms/Qarah Chauq 3L-1, 5 Ms/Khabaz 7, 6 Ms/Khabaz 17. 7–8: *Miogypsinoides bantamensis* (Tan Sin Hok) .Khabaz well-9, early lower Aquitanian, equatorial section. Depth 2264 m. 7 Ms/Khabaz 19–2, 8 Ms/Khabaz 19–7. 9–20: *Miogypsinoides dehaartii*, Khabaz well-9, early lower Aquitanian. 9–12

Equatorial section. Depth 2258m., 9 Ms/Khabaz 21-17-2, 10 Ms/Khabaz 21-21-1, 11 Ms/Khabaz 21-13, 12 Ms/Khabaz 22-19-2. 13–15 Equatorial section. Depth 2255 m., 13 Ms/Khabaz 22-1-1, 14 Ms/Khabaz 22-6-1, 15- Ms/Khabaz 22-11-4. 16 A. Equatorial section. Ms/Khabaz 22-11-4. B. Axial section, depth 2255 m. 17–19 Equatorial section. Depth 2255 m., 17 Ms/Khabaz 22-14-5, 18 Ms/Khabaz 22–8-1, 19 Ms/Khabaz 22-11-3. 20 Ms/Khabaz 22-19; A—axial section, B—oblique axial section

Fig. 5 Scatter diagrams of P-X values (on the left) and D-Y values (on the right) in Miogypsinids assemblages from Khabaz well-9 and Qara Chauq Dag section of the Azkand Formation

Fig. 6 Scatter diagrams of P-X values (on the left) and D-Y values (on the right) in Miogypsinids assemblages from Khabaz well-9 of the Azkand Formation (M Miogypsina, Ms Miogypsinoides)

Fig. 7 Scatter diagrams of P–X values (on the left) and D–Y values (on the right) in Miogypsinids assemblages from Khabaz well-9 of the Azkand Formation (M Miogypsina, Ms Miogypsinoides)

Fig. 8 Correlation of stratigraphic sections based on the evolutionary stages of Oligocene–Early Miocene Miogypsinids and Lepidocyclinid assemblages (Nephrolepidina) in northern Iraq (no. 1 refers to the Miogypsina embryo and no. 2 refers to the Miogypsinoidea embryo). Nephrolepidina data are from Ghafor and Muhammed (2005)