Erratum to: Bone mineral: update on chemical composition and structure

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1. In the section headed “Non-apatitic environments in bone mineral,” the last sentence of the second paragraph (left column, p. 1018) should have been: “For example, importantly, the FTIR spectra of wet HPO_4^{2-} containing synthetic nanocrystals have been found to be very similar but not identical to OCP, while ^{31}P solid-state NMR spectra are very different from those of octacalcium phosphate, which contain HPO_4^{2-} environments very similar to those of dicalcium phosphate dihydrate (DCPD) [56].”

2. There were four errors in the section headed “Precursor phase(s) of apatitic nanocrystals”:

- (a) The last sentence of the second paragraph (left column, p. 1019) should have been: “We do not feel that the conclusion that OCP or “OCP-like” crystals exist in bone as distinct crystalline phases can account for the very large number of non-apatite environments found in newly formed bone mineral at any stage of new bone formation”.
- (b) The second sentence of the sixth paragraph (right column, p. 1019) should have been: “In addition, a careful examination of spectroscopic data obtained by different techniques and an exploration of all spectroscopic characteristics (not only special features) does not support the existence of separate crystalline phases different from those of apatite, even in the samples of bone from the youngest animals.”
- (c) The sentence beginning on line 24 of the sixth paragraph (right column, p. 1019) should have been: “As already noted, these ions are not compatible with the formation of OCP crystals, and to date, no carbonate-containing OCP crystals or other non-apatitic phases have been detected.”
- (d) The first sentence of the penultimate paragraph (left column, p. 1020) should have been: “We also note the following reservations we have about the conclusions reached by Mahamid et al. [69]: The FTIR band at 961 cm^{-1} is characteristic of apatite and not carbonated apatite; this band is due to phosphate ions in any HPO_4^{2-} or carbonate-containing apatite.”

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