1) p30 line20: "This small drop may be an artefact of both sampling and analytical uncertainties."

change to "While this drop may be an artefact of both sampling and analytical uncertainties, a possibility also exists that it could be linked to shell repair processes. Brachiopods are well known to pose a remarkable shell repair ability (Cross et al. 2015, 2016), and thus it cannot be excluded that this shell part, although originally formed early in life under natural conditions, also contains a contribution from material precipitated in the culture seawater later in life, in particular under low-pH conditions."

2)p31 line24:

However, our brachiopod δ18O values are offset from calcite equilibrium δ18O (-4.4‰, relative to 10°C from Watkins et al., 2013) by -2.2‰ to -2.7‰, for the low-pH and the control specimen, respectively. This offset is comparable to that recorded by Bajnai et al. (2018).There, the *M. venosa* specimen showed apparent equilibrium δ18O relative to Kim and O’Neil (1997) which translates to a ca.-1.5‰ offset, relative to Watkins et al. (2013).In addition, alike in the experiment of Watkins et al.(2013), we observed a slight trend in pH, with higher Δ18Ocal–sw at lower pH."

change to "Similarly, for oxygen isotopes, we find variable Δ18Ocal-sw with an apparent trend with pH. These values are offset from the equilibrium Δ18Ocal-sw (Δ18Ocal-sw = 32.9 at 10°C) determined by Watkins et al. (2013, 2014). This suggests that M. venosa present non-equilibrium growth-rate related isotope effects up to about 2.9 ‰, larger than the app. 1.5 ‰ previously recorded by Bajnai et al. (2018). Providing that this offset can be constrained for, brachiopods continue to present robust archives for palaeo-temperature reconstructions."

3) p.31n line 29.

"Thus, the data suggest that large part of the secondary layer isotope record may reflect the environmental conditions supporting the interpretation of brachiopod shells as good archives of geochemical proxies, even when stressed by ocean acidification."

change to: "In summary, although it appears that variable growth rates present the most prominent confounding parameter complicating the interpretation of carbon and oxygen data, providing that we account for them, our results support the notion that brachiopods present robust geochemical archives, even when stressed by ocean acidification."

And the year of one reference needs to be change.

The reference

Baumgarten, s., Laudien, j., Jantzen, c., Häussermann, v., and Försterra, g. 2014.Population structure, growth and production of a recent brachiopod from the Chilean fjord region, Mar. Ecol., 35,401–413

should be 2014 not 2013. Should be change in both manuscript text and reference list.