

ERRATUM

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# Erratum to: Development of a circulation direct sampling and monitoring system for O<sub>2</sub> and CO<sub>2</sub> concentrations in the gas–liquid phases of shake-flask systems during microbial cell culture

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**Erratum to: *AMB Expr* (2017) 7:163  
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Following publication of the original article (Takahashi et al. 2017), the authors reported that there was a mistake in the legend of Figure 2, which in the published article reads as follows:

Figure 2 Real-time CO<sub>2</sub> and O<sub>2</sub> concentrations in normal and specialised shake-flask culture of *E. coli* IFO3301. **a** In the headspace; **b** in the culture medium. Symbols: *circles* oxygen; *triangles* carbon dioxide; *closed* normal shake-flask culture; *open* specialised shake-flask culture (with removal of.....)

However, the sentence should read:

Figure 2 Real-time CO<sub>2</sub> and O<sub>2</sub> concentrations in normal and specialised shake-flask culture of *E. coli* IFO3301. **a** In the headspace; **b** in the culture medium. Symbols: *triangles* oxygen; *circles* carbon dioxide; *closed* normal shake-flask culture; *open* specialised shake-flask culture (with removal of.....)

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