

Erratum: Music structure determines heart rate variability of singers.

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Erratum: Music structure determines heart rate variability of singers

Björn Vickhoff¹*, Helge Malmgren², Rickard Åström³, Gunnar F. Nyberg⁴, Seth-Reino Ekström⁵, Mathias Engwall⁶, Johan Snygg³, Michael Nilsson¹,8 and Rebecka Jörnsten⁵

- ¹ Center for Brain Repair and Rehabilitation, Institute of Neuroscience and Physiology, Sahlgrenska Academy, University of Gothenburg, Gothenburg, Sweden
- ² Department of Philosophy, Linguistics and Theory of Science, University of Gothenburg, Gothenburg, Sweden
- ³ Professional Musician and Composer, Torslanda, Sweden
- ⁴ Department of Clinical Physiology, Sahlgrenska University Hospital, Gothenburg, Sweden
- ⁵ Cantor, Kalvshult, Sweden
- ⁶ Department of Cultural Sciences, University of Gothenburg, Gothenburg, Sweden
- Department of Anaesthesia and Intensive Care, Sahlgrenska University Hospital, Gothenburg, Sweden P
- ⁸ Hunter Medical Research Institute, University of Newcastle, Newcastle, NSW, Australia
- 9 Department of Mathematical Sciences, University of Gothenburg and Chalmers University of Technology, Gothenburg, Sweden
- *Correspondence: bjorn.vickhoff@neuro.gu.se

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Edward W. Large, Florida Atlantic University, USA

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A commentary on

Music structure determines heart rate variability of singers.

Vickhoff, B., Malmgren, H., Åström, R., Nyberg, G., Ekström, S.-R.,

Engwall, M., et al. (2013). Front. Psychol. 4:334. doi: 10.3389/fpsyg.2013. 00334

ERRATUM

Figures 4, 5, 10, 13 in the article "Music structure determines heart rate variability

of singers" by Vickhoff et al. published in Frontiers in Psychology, 09 July (doi: 10.3389/fpsyg.2013.00334) 2013 The contain labeling error: singing "Hymn" task tags and "Mantra" appear in the wrong order.

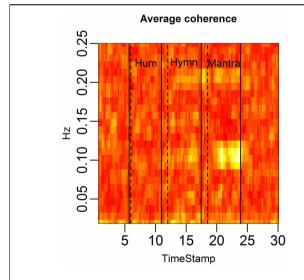
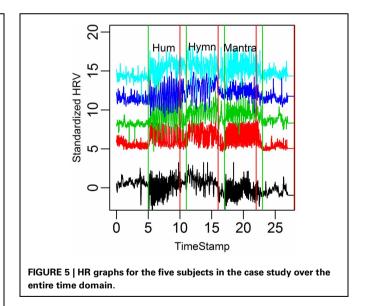


FIGURE 4 | HRV between-subject coherence. Each column of the figure represents the average coherence across pairs of subjects for a certain time window. Each row represents a frequency in Hz. The coherence is computed in rolling windows of length 96 s, step size 12 s. The coherence summarizes the co-variation (correlation) of two subjects per frequency. In the figure, brighter colors represent higher coherence. Coherence is clearly higher during the mantra than during any other condition (0.1 Hz). Coherence is also higher during the hymn than during humming and baseline.



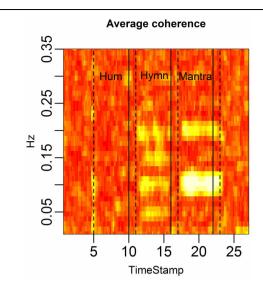


FIGURE 10 | HRV coherence for the case study. Each column of the figure represents the average coherence across pairs of subjects for a certain time window. Each row represents a frequency in Hz. The coherence was computed in rolling windows of length 96 s, step size 12 s (cf. **Figure 4**). Coherence is clearly high during the mantra (at 0.1 Hz and at the harmonic frequency 0.2 Hz). There is also high coherence during the hymn (at 0.05, 0.1, and 0.2 Hz, and the harmonic 0.15 Hz).

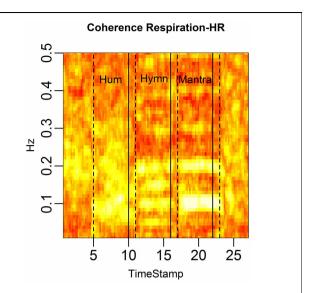


FIGURE 13 | RSA is defined as the coherence between respiration depth and HR. We depict the average RSA across subjects in rolling windows of length 96 s, stepped by 12 s. Each column represents the coherence at different frequencies for a given time point and each row the coherence for a particular frequency across time. RSA is markedly high during the mantra (at 0.1 and the 0.2 Hz harmonic) as well as during the hymn (at 0.05, 0.1, and 0.2 Hz). RSA is also high during the hum segment, albeit not a common dominant frequency as expected since respiration frequency is highly individual during humming.

The correct order of the singing task labels is: "Hum" (5–10 min segment), "Hymn" (11–16 min segment) and finally "Mantra" (17–22 min segment).

Figures with correct labeling appear in this Erratum.

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