Title and brief description: OB-scene, a live audio/visual performance for photoplethysmograph and female body.

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**Additional Information:**  
Originality  
The balance between gesture and acoustic results is of great interest for electroacoustic artistic research and there are several artists who considered the body as source of music or sound working on the enhancement of the gesture in live performance through wearable instruments. In OB-scene the reverse is the case. Here the author wanted to experiment with a “sentic” approach. Emotional response is conceived as input to the machine, which becomes an active and autonomous participant in both the composition and the performance. This is an interdisciplinary new approach where methods borrowed from science, technology, bio-art and sound are combined in order to create novel methods of composition and performance.

Rigor  
The performance consists of a live sonification of biological data gathered in real time through a customised vaginal probe (photoplethysmograph or VPP). The probe operates on the principle that vasocongestion occurs within the vagina. An infrared diode and a photodetector that detects the backscattered incident light indicate the vasocongestion. The signal AC (Alternating Capacitive Coupling) is used to generate live data for the performance. The interface between the medical probe and the software (Supercollider) is an Arduino Duemilanove. Data is processed and transformed, through original software coded in Supercollider, into sound and raw data projected in the exhibition space.

Significance  
The author has been invited to present on this project at Transmediale (2016); FutureFest (London 2016); DRHA 2016: Digital Research in the Humanities and Arts (Brighton 2016); Metabody Forum (Brunel University 2016), an EU-funded program involving collaborators and advisors such as Donna Haraway, N. Katherine Hayles, Annie Sprinkle, and Ricardo Dal Farra. Additionally the single authored article presented here was written, at the invitation of the editor.

**Interdisciplinary:** Y

Troisi, A.. OB-scene – Portfolio (documents, dissemination, impact)