

Accepted Manuscript

Title: Putting a good face on touch: Facial expression reflects the affective valence of caress-like touch across modalities

Authors: Leah M. Mayo, Johan Lindé, Håkan Olausson, Markus Heilig, India Morrison



PII: S0301-0511(18)30513-1
DOI: <https://doi.org/10.1016/j.biopsycho.2018.07.001>
Reference: BIOPSY 7556

To appear in:

Received date: 16-11-2017
Revised date: 26-6-2018
Accepted date: 4-7-2018

Please cite this article as: Mayo LM, Lindé J, Olausson H, Heilig M, Morrison I, Putting a good face on touch: Facial expression reflects the affective valence of caress-like touch across modalities, *Biological Psychology* (2018), <https://doi.org/10.1016/j.biopsycho.2018.07.001>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

Putting a good face on touch: Facial expression reflects the affective valence of caress-like touch across modalities

Authors:

Leah M. Mayo, Johan Lindé, Håkan Olausson, Markus Heilig, India Morrison

Affiliations:

Center for Social and Affective Neuroscience, Department of Clinical and Experimental Medicine, Linköping University, Sweden

Author for correspondence:

Leah M. Mayo

Psychiatry Building, Entrance 27, Floor 9

Linköping University, Linköping, Sweden 581 83

leah.mayo@liu.se

Highlights

- Socially-relevant, caress-like touch is rated as hedonically pleasant
- This type of touch also attenuates negative facial expressions assessed via facial electromyography
- Responses to touch are supra-modal; they are evident in response to physical stimulation or the observation of touch

Abstract

Touch plays a central role in interpersonal behavior, especially in its capacity to convey—and induce— changes in affect. Previous research has established that slow, caress-like stroking over the skin elicits positive subjective affective responses, with higher ratings of “pleasantness” compared to a faster-moving touch stimulus. Ratings of pleasantness are associated with increased activity of a distinct class of nerve fibers: C-tactile (CT) afferents. Here, we used facial electromyography (EMG) to determine if touch that optimally activates CT afferents also influences facial muscle activity believed to reflect changes in affect. We found that less pleasant, fast-moving stroking (30 cm/s)

Download English Version:

<https://daneshyari.com/en/article/7278055>

Download Persian Version:

<https://daneshyari.com/article/7278055>

[Daneshyari.com](https://daneshyari.com)