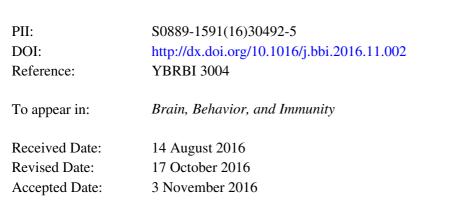
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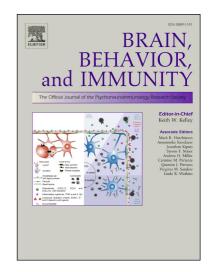
Microbial lysate upregulates host oxytocin

Bernard J. Varian, Theofilos Poutahidis, Brett T. DiBenedictis, Tatiana Levkovich, Yassin Ibrahim, Eliska Didyk, Lana Shikhman, Harry K. Cheung, Alexandros Hardas, Catherine E. Ricciardi, Kumaran Kolandaivelu, Alexa H. Veenema, Eric J. Alm, Susan E. Erdman



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ACCEPTED MANUSCRIPT

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26 27	ABSTRACT
28	Neuropeptide hormone oxytocin has roles in social bonding, energy metabolism,
29	and wound healing contributing to good physical, mental and social health. It was
30	previously shown that feeding of a human commensal microbe Lactobacillus
31	reuteri (L. reuteri) is sufficient to up-regulate endogenous oxytocin levels and
32	improve wound healing capacity in mice. Here we show that oral L. reuteri-
33	induced skin wound repair benefits extend to human subjects. Further, dietary
34	supplementation with a sterile lysate of this microbe alone is sufficient to boost
35	systemic oxytocin levels and improve wound repair capacity. Oxytocin-producing

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