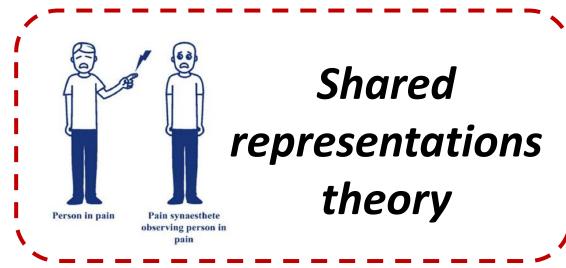
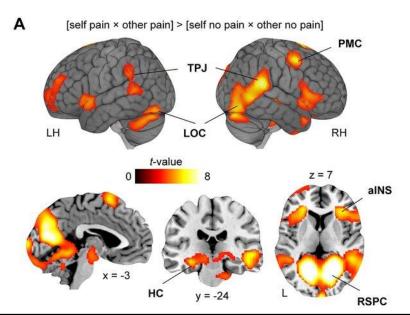


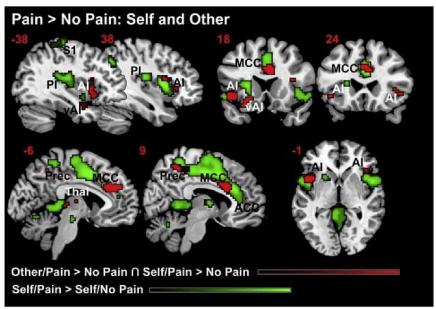
The linkage between first-hand pain sensitivity and empathy for others' pain: Attention matters

Human Brain Mapping, 2020

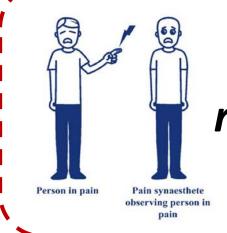
Yang Ziyang 2025.1.24







Rütgen, Seidel, Silani, et al., 2015



Shared representations theory

JOURNAL ARTICLE

From painkiller to empathy killer: acetaminophen

(paracetamol) reduces empathy for pain a

Dom

Socio

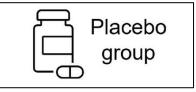
Placebo analgesia and its opioidergic regulation suggest that empathy for pain is grounded in self pain

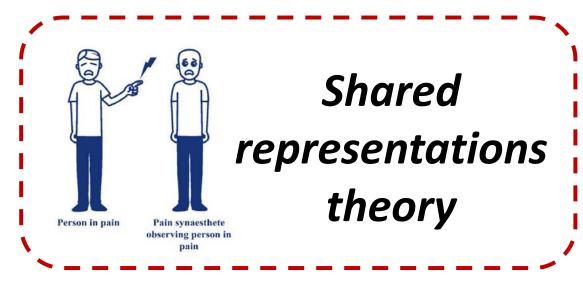
Markus Rütgen, Eva-Maria Seidel, Giorgia Silani, +4 , and Claus Lamm

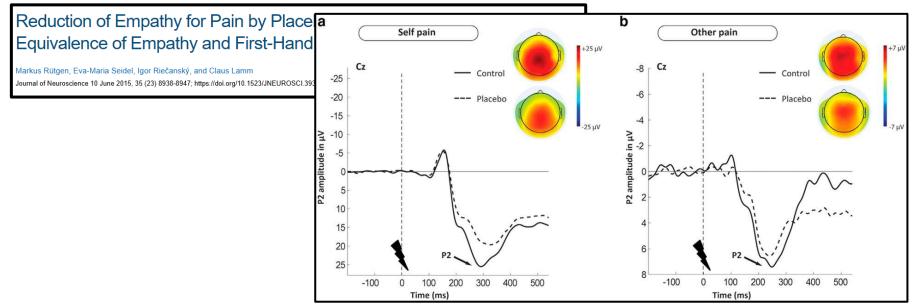
△ Authors Info & Affiliations

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September 28, 2015 112 (41) E5638-E5646 https://doi.org/10.1073/pnas.1511269112







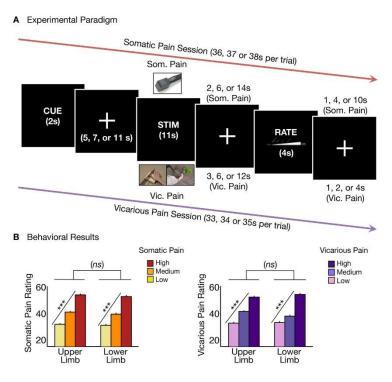
specialized neural circuits

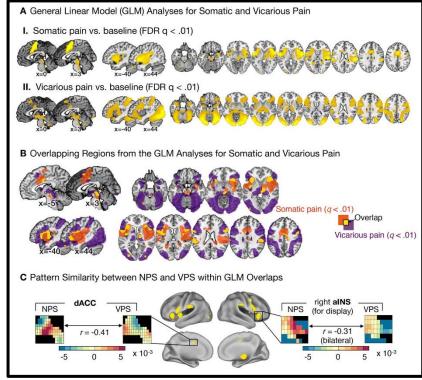
Research Article

Neuroscience

Somatic and vicarious pain are represented by dissociable multivariate brain patterns

Anjali Krishnan , Choong-Wan Woo, Luke J Chang, Luka Ruzic, Xiaosi Gu, Marina López-Solà, Philip L Jackson, Jesús Pujol, Jin Fan, Tor D Wager





specialized neural circuits

Autism spectrum

Somatoform pain disorder

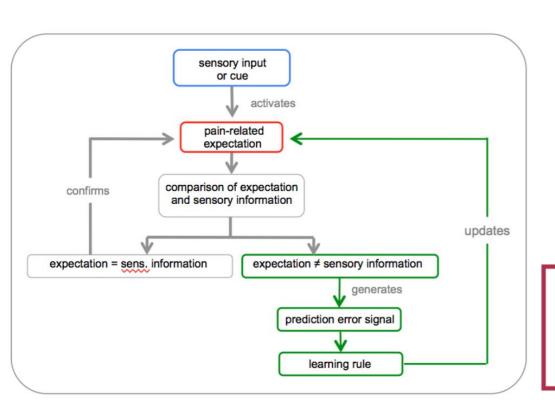
Hypersensitivity to first-hand pain but hyposensitivity to vicarious pain

Dissociable!

Deconstructing the sensation of pain: The influence of cognitive processes on pain perception

Science

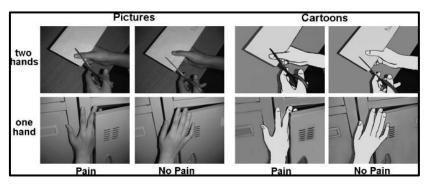
KATJA WIECH Authors Info & Affiliations

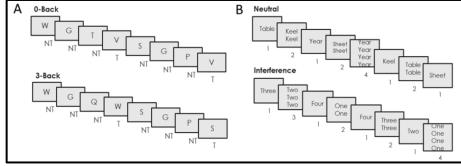




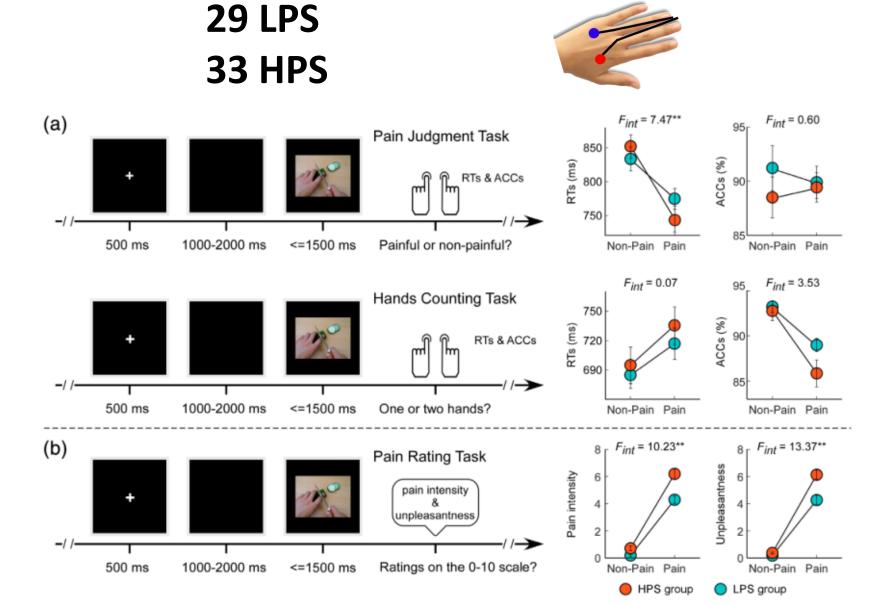
high-level executive functions

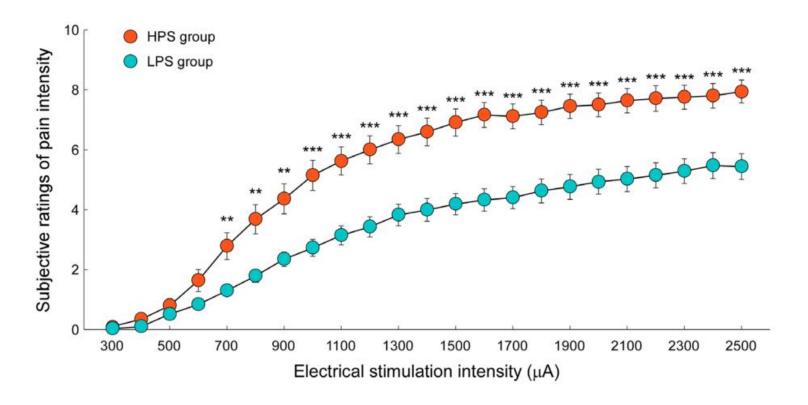
First-hand experience of an emotion Empathic experience of an emotion



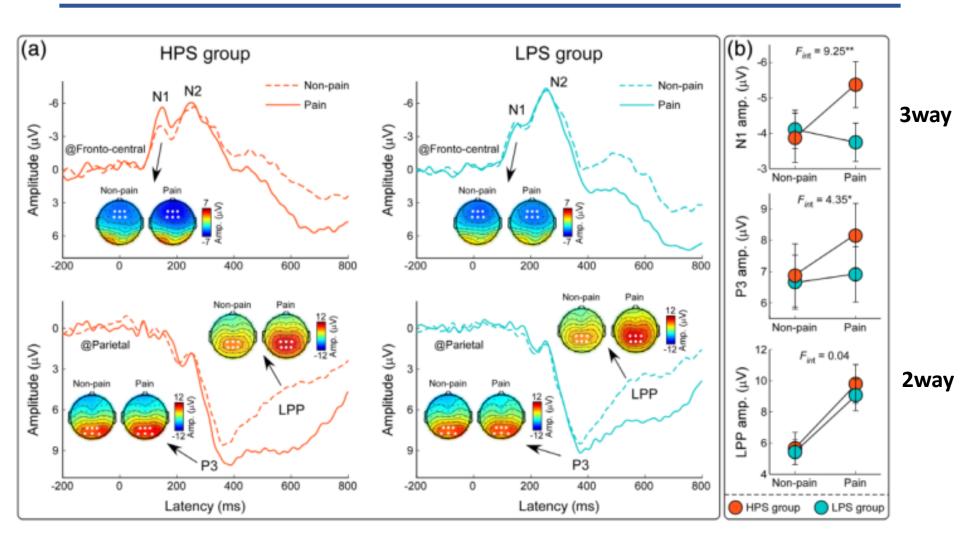


Design

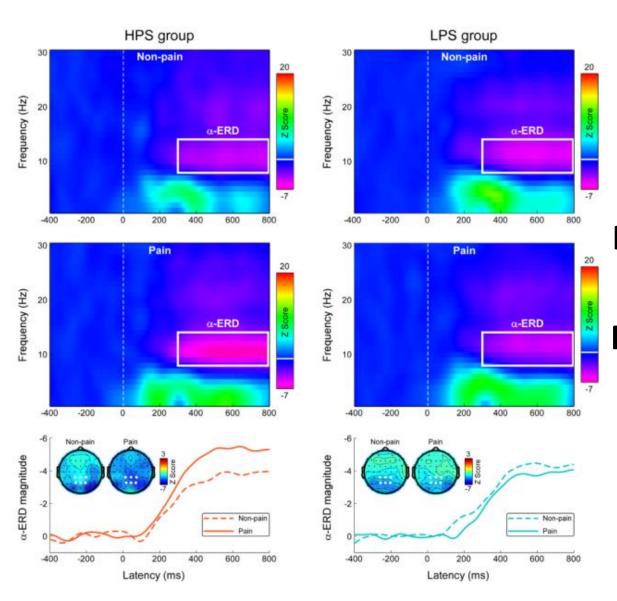




IRI				
Perspective taking	15.59 ± 0.76	14.91 ± 0.53	0.70	.48
Fantasy	17.55 ± 0.73	15.39 ± 0.62	2.27	.027
Empathic concerns	16.00 ± 0.58	16.39 ± 0.54	0.49	.62
Personal distress	14.55 ± 1.01	10.24 ± 0.70	3.58	.001

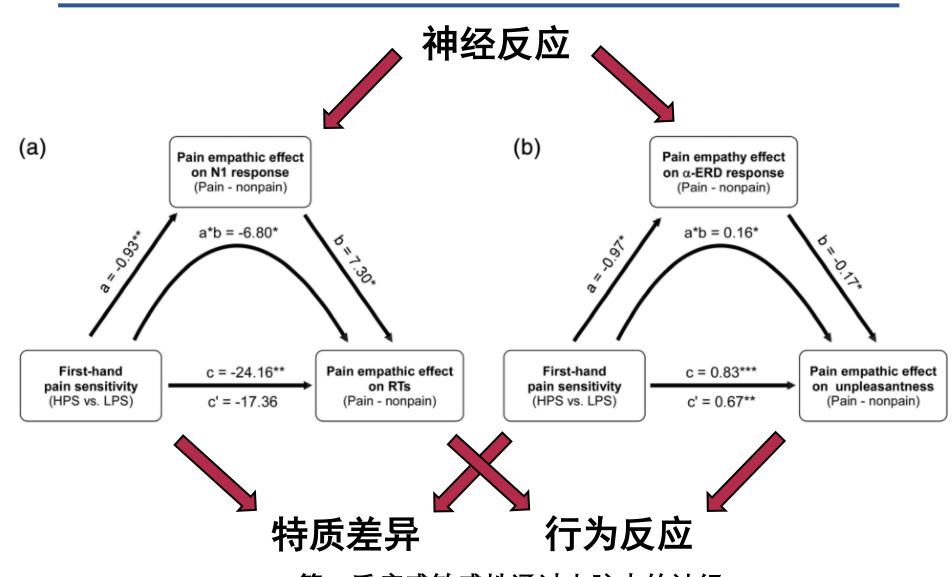


Pain Judgment Task ✓ Pain Judgment Task X



Pain Judgment Task **V**

Pain Judgment Task X



第一手痛感敏感性通过大脑中的神经 反应(N1和α-ERD)影响个体的共情

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