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Adults construct their representation of pain in babies cries with experience

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P360

Background: babies cries convey information through acoustic differences

discomfort unknow baby familiar baby cries kHz) familiar baby unknow baby

Individual characteristics Familiar babies are recognized by parents¹ and non-parents² Experience and exposure improve this ability

Emotional and physiological state

Pain cries are longer, louder, harsher and rougher \mathcal{P} Parents identify a pain state by listening to their baby's cries³



Graphical representations of cries from two different babies

Does an *individual's experience* to take care of babies and *familiarity* with a given baby improve caregivers' ability to recognize pain in cries ?



References: 1 Gustafsson et al., 2013, Nat.Commun. ; 2 Bouchet et al., 2020, Proc.Biol.Sci. ; 3 Koutseff et al., 2017, Bioacoustics

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