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Human Brain Responds to Threatening and Aggressive Voices More Quickly: Study

SCIENCE IANS Dec 10, 2018 11:28 AM IST

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Human brain. (Photo Credits: Gpat Discussion Center/Facebook)

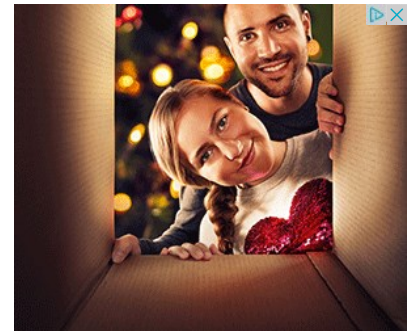
London, December 10: Human brains notice a voice much faster when it is considered threatening or aggressive than when it is perceived as normal or happy in an auditory environment, according to a new study. The study demonstrated that in a few

hundred milliseconds, our brain becomes sensitive to the presence of angry voices. Sight and hearing are the two senses that allow human beings to detect threatening situations.

"We are interested in how fast our attention responds to the different intonations of the voices around us and how our brain deals with potentially threatening situations," said Nicolas Burra, researcher from the University of Geneva in Switzerland. The researchers presented 22 short human voice sounds (600 milliseconds) that were neutral utterances or expressed either anger or joy to a small group of people while an electroencephalogram (EEG) -- diagnostic test -- measured electrical activity in the brain down to the millisecond. **What is the Mystery Behind Human's Large Brain Size? Scientists Reveal the Truth.**

The findings, published in the journal Social Cognitive and Affective

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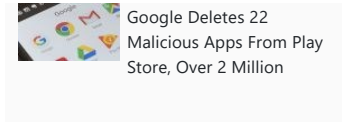


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Neuroscience, revealed that when the brain perceives an emotional target sound, N2ac activity is triggered after 200 milliseconds. However, when it perceives anger, the N2ac intensifies and lasts longer, which is not the case for joy. N2ac is a component related to the focusing of attention within an auditory scene.

Also, LPCpc activity -- a cerebral marker of auditory attention -- is also stronger for angry than for happy voices, findings revealed. This rapid detection of the source of a potential threat in a complex environment is essential as it is "critical in crisis situations and a great advantage for our survival", noted Leonardo Ceravolo, researcher from the varsity.



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Bangladesh vs West Indies - 1st ODI
Dec 09, 2018 12:30 IST
Bangladesh beat West Indies by 5 wickets

Australia vs India - 1st Test
Dec 06, 2018 05:30 IST
India beat Australia by 31 runs

Pakistan vs New Zealand - 3rd Test
Dec 03, 2018 11:30 IST
New Zealand beat Pakistan by 123 runs

Bangladesh vs West Indies - 2nd Test
Nov 30, 2018 09:00 IST
Bangladesh beat West Indies by an innings and 184 runs

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Upcoming

Betis vs Rayo Vallecano
Match 150, Dec 10, 2018 01:15 IST
Real Betis Balompie beat Rayo



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Spanish La Liga 2018-19

Real Sociedad vs Valladolid
Match 149, Dec 09, 2018 23:00 IST

Real Valladolid beat Real Sociedad (2 - 1)

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Newcastle United vs Wolverhampton
Match 159, Dec 09, 2018 21:30 IST

Wolverhampton Wanderers beat Newcastle United (2 - 1)

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Dec 09, 2018 21:00 IST
Telugu Titans beat Haryana Steelers (35-31)

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Tamil Thalaivas vs Jaipur Pink Panthers
Dec 09, 2018 20:00 IST
Jaipur Pink Panthers beat Tamil Thalaivas (37-24)
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Telugu Titans vs Jaipur Pink Panthers
Dec 08, 2018 21:00 IST
Telugu Titans beat Jaipur Pink Panthers (36-26)
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U Mumba beat Bengal Warriors (31-20)
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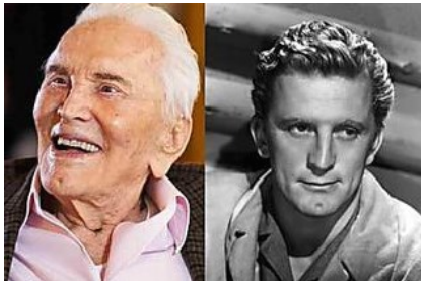
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