

# People with psychopathic traits are less likely to 'catch' a yawn than empathetic folks

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People with psychopathic characteristics are less likely to be affected by "contagious yawning" than those who are empathetic, according to a Baylor University psychology study.

Yawning after spotting someone else yawn is associated with empathy and bonding, and "catching" yawns happens with many social mammals, among them humans, chimpanzees and dogs, researchers say.

The study—"Contagious [yawning](#) and psychopathy"—involved 135 college student respondents and was published online in the journal *Personality and Individual Differences*.

"You may yawn, even if you don't have to," said lead researcher Brian Rundle, a doctoral student in psychology and neuroscience in Baylor's College of Arts and Sciences. "We all know it and always wonder why. I thought, 'If it's true that yawning is

related to empathy, I'll bet that psychopaths yawn a lot less.' So I put it to the test."

Psychopathy is characterized by an antisocial lifestyle, including being selfish, manipulative, impulsive, fearless, domineering and, in particular, lacking in empathy, previous research has shown.

Students in the Baylor study first took a standard [psychological test](#)—the 156-question Psychopathic Personality Inventory, with questions aimed at determining their degree of cold-heartedness, fearless dominance and self-centered impulsivity. "It's not an 'on/off' of whether you're a psychopath," Rundle said. "It's a spectrum."

Next, students were seated in a dim room in front of computers. They wore noise-canceling headphones, with electrodes placed below their eyelids, next to the outer corners of their eyes, on their foreheads and to index and middle fingers.

They were shown 10-second video clips of different facial movements—a yawn, a laugh or a neutral face—with 10 seconds of blank screen separating 20 video snippets of those expressions.

Based on the psychological test results, the frequency of yawns and the amount of physiological response of muscle, nerve and skin, the study showed that the less [empathy](#) a person had, the less likely he or she was to "catch" a yawn.

"The take-home lesson is not that if you yawn and someone else doesn't, the other person is a psychopath," Rundle cautions. "A lot of people didn't yawn, and we know that we're not very likely to yawn in response to a stranger we don't have empathetic connections with.

"But what we found tells us there is a neurological

connection—some overlap—between [psychopathy](#) and [contagious yawning](#). This is a good starting point to ask more questions."

Provided by Baylor University

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