

#INTERRELATIONSHIP

Environment impacts young brains

The findings highlight the importance of the urban environment in mental health. There is a critical window during childhood and adolescence where environmental factors can shape future cognitive and behavioural development.



A pioneering new study links satellite and brain imaging data to identify how specific environmental conditions may affect the brains of young people. The study represents an advance in understanding how specific environmental conditions may affect the brains of young people.

"The findings highlight importance of the urban environment in mental health. We see a critical window during childhood and adolescence where environmental factors can shape future cognitive and behavioural development," says the study's senior author and principal investigator, Vince Calhoun, a professor of Psychology at Georgia State University. Calhoun has faculty appointments at Georgia Tech and Emory University, and leads the Center for Translational Research in Neuroimaging and Data Science Center.

The researchers used a dataset from the Adolescent Brain Cognitive Development (ABCD) study, which is the largest ongoing study on child brain development in the US. For the study, the team analyzed data collected from 11,800 children across 21 US cities.

Calhoun says that by linking fMRI imaging with satellite data, including the location of study participants, researchers were able to more robustly identify how the physical environment influences cognition and mental health outcomes in children, aged 9 to 10.

Collaborating closely with the ABCD team, the researchers released their results as part of ABCD Data Release 5.0. This enables the research community to address critical questions regarding the connection between environment and mental health. Lead author

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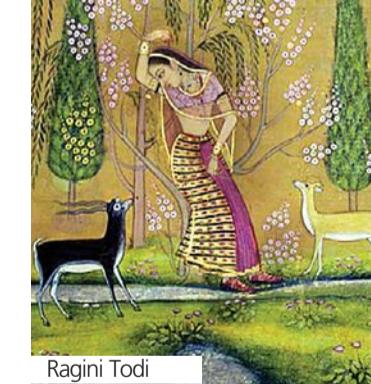
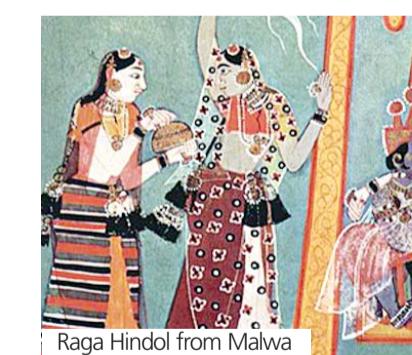
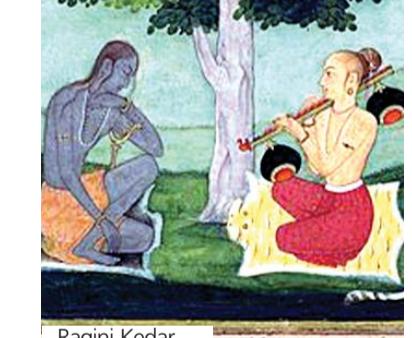
Ragamala, translated from Sanskrit as 'garland of ragas', is a series of paintings depicting a range of musical melodies known as ragas. Its root word, *raga*, means colour, mood, and delight, and the depiction of these moods was a favoured subject in later Indian court paintings.

Attempts to synthesise the visual and musical worlds of the arts have a longstanding history. Goethe, Walter Pater and Wassily Kandinsky are famous Western scholars who held up the idea that the union of music with art can be seen everywhere. Goethe even said that architecture was but 'frozen music.'

TStarting from the sixteenth-seventeenth centuries, Ragamala paintings used images of Hindu deities to personify musical notes in the raga. In that vein, Raga Bhairava became Lord Shiva, with his vaahana (vehicle) Nandi. Raga Megha was pictured as Lord Vishnu, wearing a garland of flowers, with a peacock sitting at his feet. The ragas, moreover, are also associated with the six seasons.

Putris (daughters). A Ragamala, therefore, is a series of miniature paintings depicting the moods and variations of not only the main ragas but the derivatives as well. They're usually a set of 36, but this can go up to 110 parts too. The earliest known *Ragamala* painting has been found on the margins of a now missing manuscript.

While Ragamalas were first identified as a distinct genre of painting only in the second half of the fifteenth century, their ancestry can be traced back to the first mention of 'the raga' in the fifth-eighth-century *Brihaddeeshi* treatise on music, which says, "A raga is called by the learned that kind of composition, which is adorned with musical notes, which have the effect of colouring the hearts of men." Organised as a family, each principal *raga* then has derivatives/ relatives called *raginis* (imagined as the *raga's* consort or wife), *ragaputras* (sons) and *raga-*



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