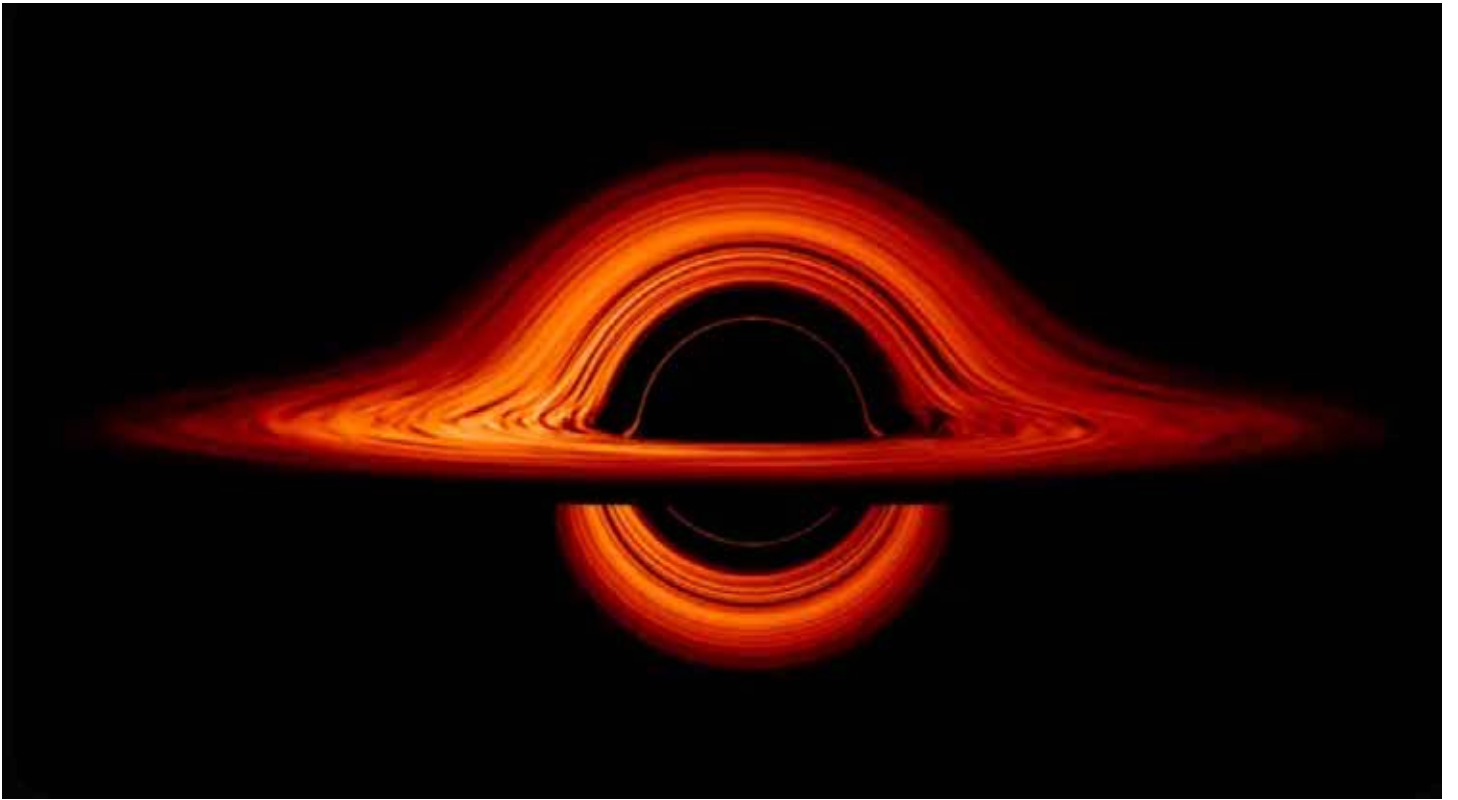


rural

# NEUROTOTICA



Email FAQ. How many global emails are sent per day? Approximately **347.3 billion** emails are sent globally each day. That's an 4.2% increase from 2022 when 333.2 billion were sent each day. 30 Mar 2023





If there is any kind of consciousness in the octopus mind – thanks to the advocacy of marine biologists and other experts, they were recently admitted into the category of sentient beings under UK law – it might not be unified. Some researchers suggest that octopuses have dual or even multiple consciousness: each individual creature might be a loosely integrated community of minds. “When I try to imagine this,” Godfrey-Smith says, “I find myself in a rather hallucinogenic place.”





**The Length of Earth's Days Has  
Been Mysteriously Increasing,  
and Scientists Don't Know Why**

**Underground fungi absorb  
up to a third of our fossil  
fuel emissions**

**Eco-anxiety can't be 'fixed'**

Being worried or anxious about the climate and ecological crisis is a reasonable and predictable response to a dangerous situation. We should expect an increase in distress and complex emotional responses.

Eco-anxiety stems from biophilia – a love of all life.



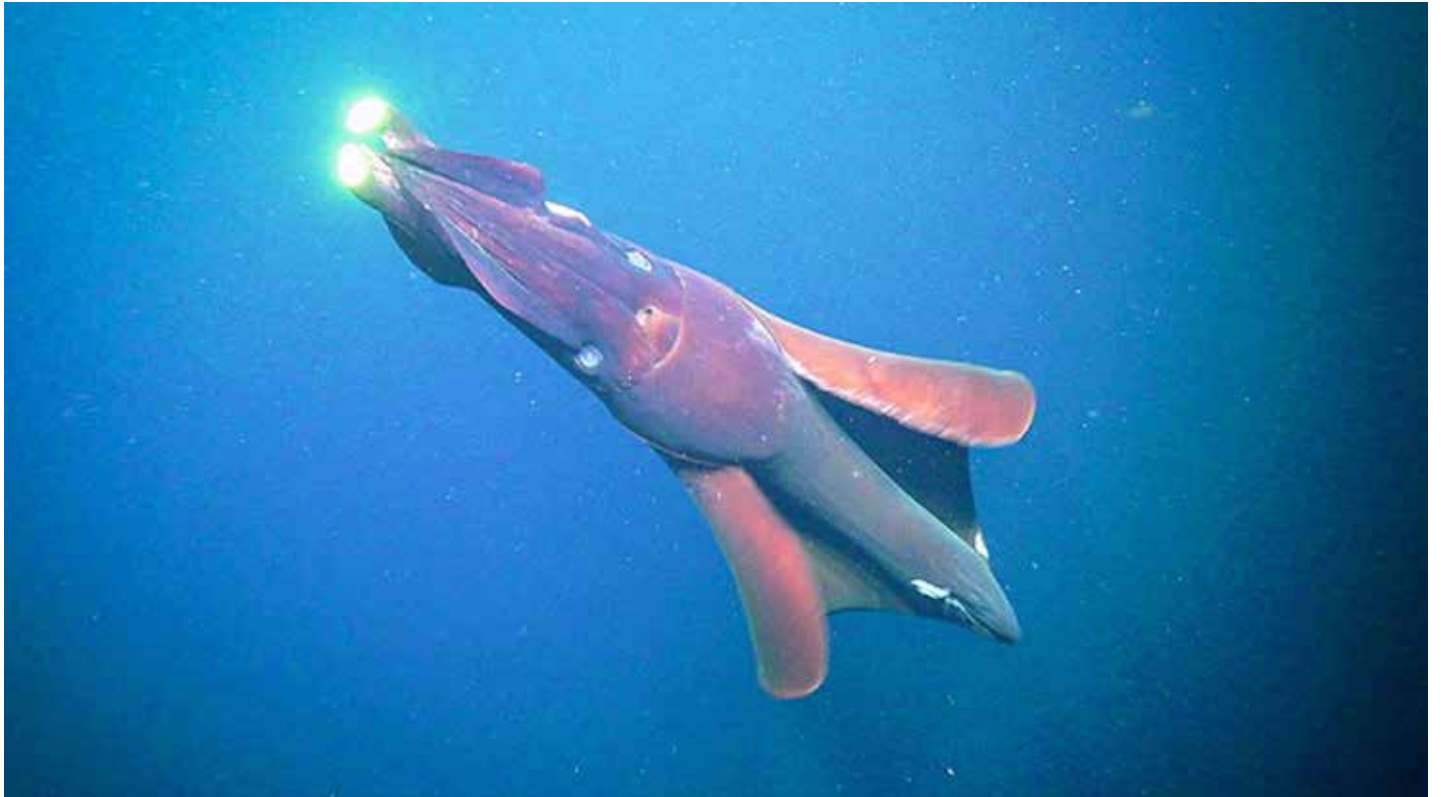
**newscientist** A compound found inside octopus ink has been created artificially in the lab and used to kill cancer cells. The development could eventually lead to new cancer treatments.

Martín Samuel Hernández-Zazueta at the University of Sonora in Mexico and his colleagues had previously identified a compound called ozopromide (OPC) that is found in the ink sac of common octopuses (*Octopus vulgaris*) as one of interest for its anti-cancer properties.

The researchers used a series of standard chemical reactions that allowed them to create the OPC molecule artificially. Next, to explore the potential of OPC as a cancer treatment, they injected the compound into cancerous human breast, cervix, prostate and lung cells.

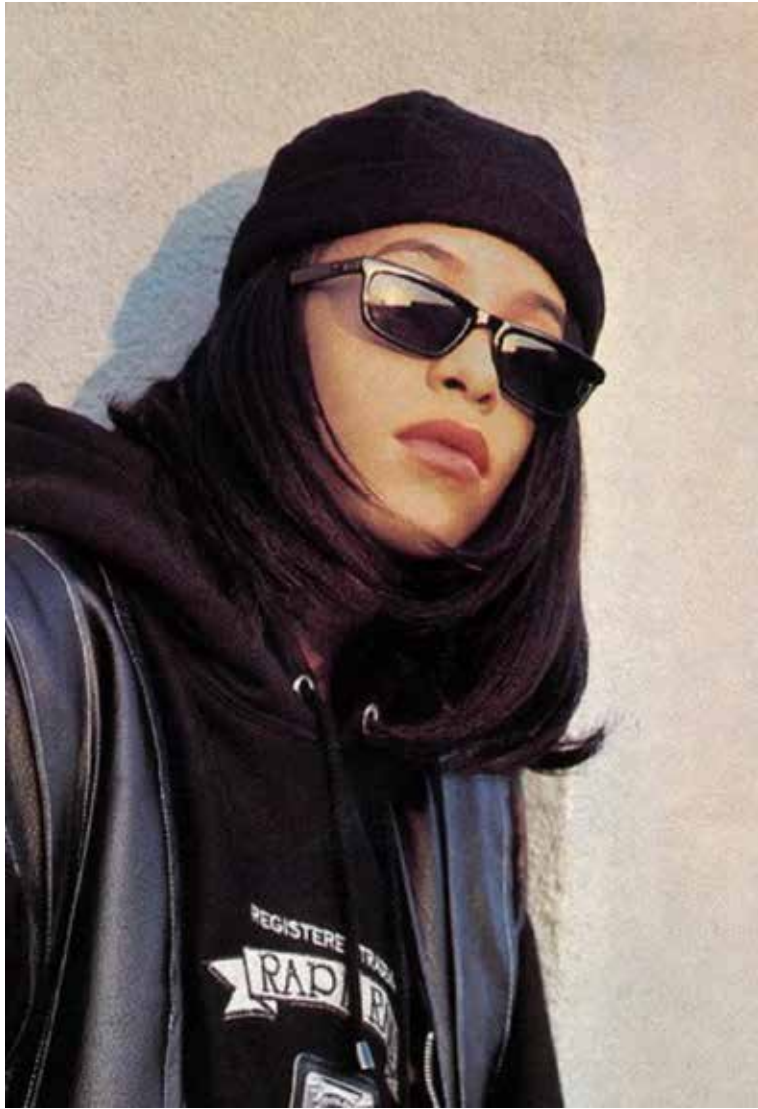
They found that OPC resulted in the death of a significant portion of the cancerous cells, with the highest proportion being a 50 per cent decrease in cancer growth in lung cells. OPC didn't affect the nearby non-cancerous cells.

Many current cancer treatments, including immunotherapy, can cause inflammation as an unwanted side effect. The team found that OPC actually reduced the production of inflammatory proteins around the cells, promoting better overall healing from the cell death.



For some, both the theory of white holes and the holographic principle violate some of Einstein's core ideas, a problem shared by other solutions to black holes, like wormholes.

One solution to the information paradox is that even if one particle of the pair falls into the black hole, the other pair can escape, and carry the information back into the Universe.









**“Over the Wintry” by Natsume Sōseki**

*Over the wintry*

*Forest, winds howl in rage*

*With no leaves to blow.*



