

Education

Human Services

The scientists refer to this kind of mixing as "opportunistic" breeding. That sounds a bit desperate, but these bears have nothing to be ashamed of; a similar DNA analysis suggests that human ancestors mixed it up with Neanderthals around the same time, leaving many of us with some bits of Neanderthal DNA.

"Hybridization seems to have occurred in the history of polar bears, and it's completely normal and natural," said biologist David Tallmon of the University of Alaska Southeast, who was not part of the team. "But my concern is the rate and extent of this is much greater now," he said, thanks to much more rapid climate change.

The new finding doesn't mean that all polar bears originated in the Emerald Isle, said Penn State biologist Beth Shapiro, who was part of the team. But it does show that, like many of us, they have some Irish blood.

Limited genetic comparisons suggest the two groups may have branched off from a common ancestor as early as 500,000 years ago, she said.

This new DNA analysis suggests that between 20,000 and 50,000 years ago, brown bears from Ireland not only interbred with polar bears, but some of their DNA spread through the entire polar bear population.

"When two closely related species overlap in range and they can mate, they often do," Shapiro said.

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