Dogs' eyes have changed since humans befriended them

Dogs, more so than almost any other domesticated species, are desperate for human eye

contact. It's hard for most people to resist a *petulant* flash of puppy-dog eyes — and according

to a new study, that pull on the *heartstrings* might be exactly why dogs can give us those looks

at all.

petulant 暴躁的; 任性的

heartstring 心弦

Dogs split off from their wolf relatives — specifically, gray wolves — as many as 33, 000

years ago. Studying the two animals is a bit like cracking open a four-legged time capsule. A

paper published in the Proceedings of the National Academy of Sciences found that dogs' faces

are structured for complex expression in a way that wolves' aren't.

For the study, a team looked at two muscles that work together to widen and open a dog's

eyes, causing them to appear bigger, droopier, and objectively cuter. But in the four gray wolves

the researchers looked at, neither muscle was present.

Research has also shown that when dogs work these muscles, humans respond more

positively. This isn't simply a fortuitous love story, in which the eyes of two species just so

happen to meet across a crowded planet. Like all the best partnerships, this one is more likely

the result of years of evolution and growth.

fortuitous 偶然的; 意外的

For a species to change quickly, a pretty powerful force must be acting on it. And that's

where humans come in. We connect profoundly with animals capable of exaggerating the size

and width of their eyes, which makes them look like our own human babies and "hijacks" our

nurturing *instincts*.

instinct 本能;直觉

"These muscles evolved during domestication," says Brian Hare, the editor of the paper,

"but almost certainly due to an advantage they gave dogs during interactions with humans that

we humans have been all but unaware of."