

Certain human diseases may have evolutionary epigenetic origins

Ninety-six percent of a chimpanzee's genome is the same as a human's. It's the other 4 percent, and the vast differences, that pique the interest of Georgia Tech's Soojin Yi. For instance, why do humans have a high risk of [cancer](#), even though chimps rarely develop the disease?

In research published in September's *American Journal of Human Genetics*, Yi looked at [brain](#) samples of each species. She found that differences in certain [DNA](#) modifications, called methylation, may contribute to phenotypic changes. The results also hint that [DNA methylation](#) plays an important role for some disease-related phenotypes in humans, including cancer and [autism](#).

"Our study indicates that certain human diseases may have evolutionary epigenetic origins," says Yi, a faculty member in the School of Biology. "Such findings, in the long term, may help to develop better therapeutic targets or means for some human diseases. "

View the original article here: [Certain human diseases may have evolutionary epigenetic origins](#)