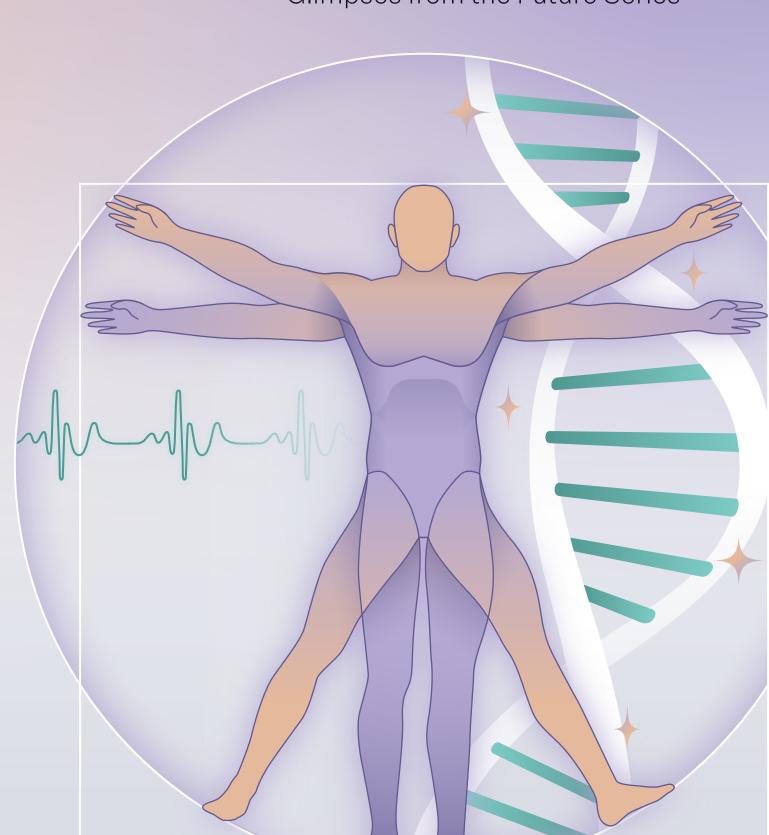
Biohacking Your Health

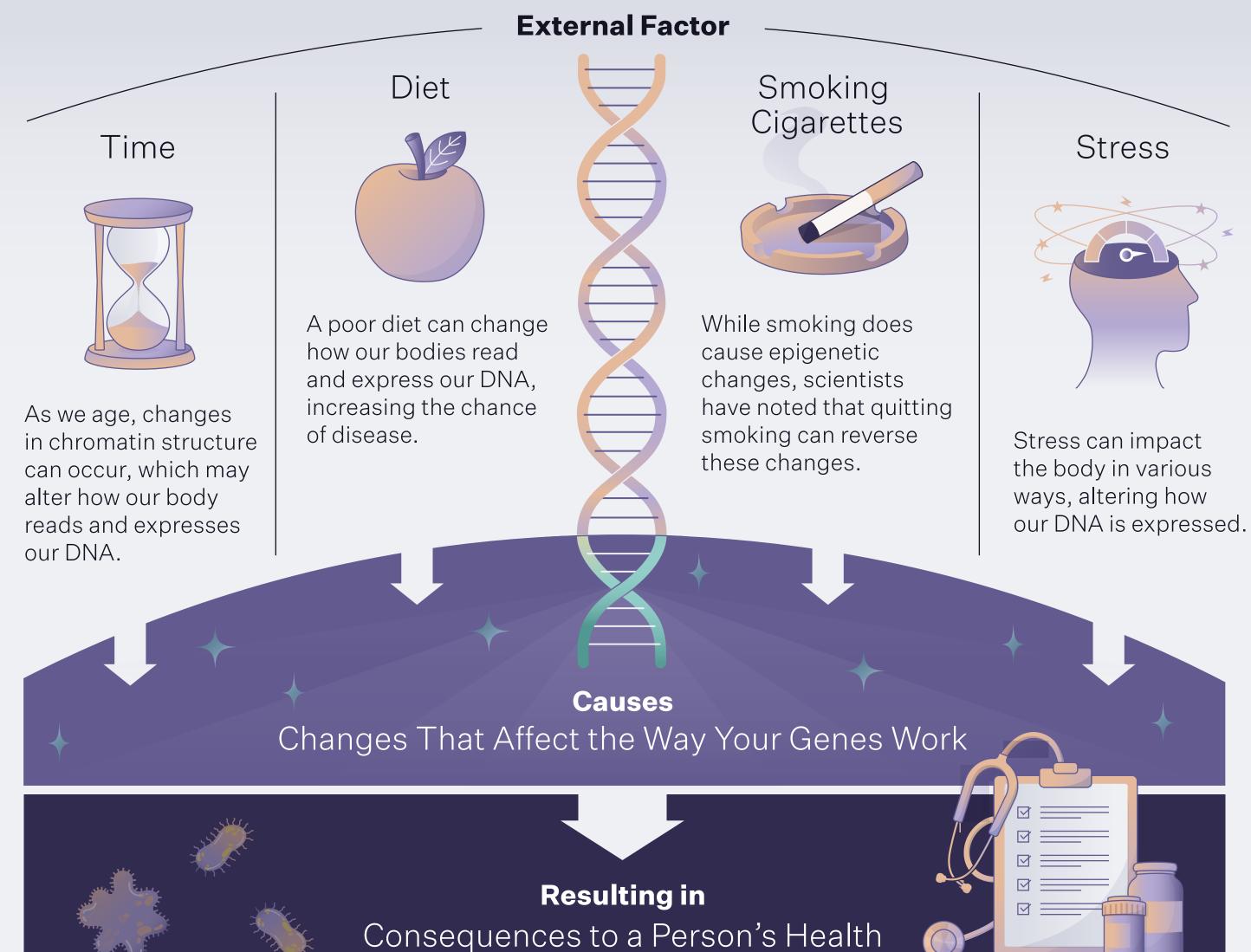
with Epigenetics

Healthy genes are essential to the body's overall well-being. However, a person's experiences and environment can change how our bodies read, or express, our DNA, with significant consequences for our health.

By optimizing environmental factors, a person can hack their genes and improve their health; this is called epigenetics.



How Epigenetics Works



Source: U.S. National Library of Medicine; Lorenzo et al. via Science Direct; Translational Psychiatry

Scientists have linked epigenetic factors to many mental conditions, patterns of addiction, and cancers.

Prevalence of Epigenetic Diseases

When the way our bodies read DNA is changed, it can increase the likelihood of contracting diseases, and is particularly true for cancers, many of which have an epigenetic component.

Туре	Estimated U.S. Cancer Cas	es*	Epigenetic Factor	No Epigenetic Factor
	Breast			313K
	Prostate			299K
	Lung		235K	
(F)	Colon	153K		
	Melanoma 101K			
	Bladder 83K			
	Kidney 82K			
	Non-Hodgkin Lymphoma 81K			
	Uterus 68K			
Co	Leukemia 63K			
0	K 10	00K	200K	300K

^{*}Note: The list is not exhaustive. Figures are rounded. Sources: U.S. National Cancer Institute; U.S. National Library of Medicine

they can also help optimize health.

While external factors can negatively impact epigenetics,

Using Epigenetics A healthy lifestyle ensures that the right genes are switched on, at the right time, which can significantly reduce disease

Promoting Your Health

risk. It enables our bodies to create disease-resistant cells, suppress tumors, and more.



Solution
Physical exercise triggers changes in how our DNA is read, improving functional capacity, resiliency, and health.
Sleep is a fundamental part of a healthy lifestyle and plays a critical role in gene expression in our bodies.
Consistently staying hydrated can promote positive epigenetic changes, supporting overall health and reducing disease risk.
Studies have shown that certain foods, such as tea, soy, herbs, garlic, and vegetables like cabbage or broccoli, can switch on the genes that suppress tumors.

Sources: U.S. National Library of Medicine; Rupa Health Understanding epigenetics empowers everyone to make

better lifestyle choices and improve mental and physical health.



Weigh in on the solutions that the field of