

Fighting the Enemy Within

Basic Life Science and Issues : Presentation

4th Team

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Fighting the Enemy Within

11th chapter of *The Epigenetics Revolution*

"Epigenetic perspective of Cancer and its treatment"



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- proto-oncogenes for cell proliferation
- tumor suppressor genes for regulation



Introduction: Cancer

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- proto-oncogenes is over-activated
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Epigenetic Approach for Oncogenesis

- DNA Methylation

Hypermethylation of CpG island

- Repressive Histone Modification

Histone deacetylation



CpG Hypermethylation



Histone deacetylation



Approach for Treatment



No easy wins



Alternative Approach



Conclusion



References

Carey, N. (2019). *The Epigenetics Revolution*. Columbia University Press



Q & A

Thank you!