

## Methylierung etc.

**DNA hat Phosphor** aber kein Schwefel  
**Eiweiß hat Schwefel** aber kein Phosphor

„**DNA Methylierung bei Prokaryonten: Schutz vor fremder DNA: Unterscheidung zelleigener DNA zu fremder, von außen in die Zelle gelangter DNA.**

**Fehlerkorrektur bei der DNA-Synthese:** Unterscheidung des ursprünglichen (methylierten) DNA-Strangs vom neu synthetisierten Strang, in welchem die Nucleobasen noch nicht methyliert sind.

**Stummschaltung** von Fremd-DNA.

**DNA methylation in prokaryotes: protection against foreign DNA: the cell's own DNA to distinguish foreign, unexploded from the outside into the cell DNA.**

**Error correction in the DNA synthesis,** differentiation of the original (methylated) strand from the newly synthesized DNA strand, in which the nucleobases are not methylated.

**Silencing** of foreign DNA.

**DNA Methylierung bei Eukaryonten:** Nutzung der DNA als Informationsträger: **Markierung von aktiven zu inaktiven Bereichen der DNA.**

**Epigenetik, „der zweite Code“.**

Die Veränderungen können sowohl in einer DNA-Methylierung als auch in einer Modifikation der Histone bestehen. Quelle: <http://de.wikipedia.org/wiki/Epigenetik>

**DNA methylation in eukaryotes:** use of DNA as an information carrier: **marker of active to inactive regions of DNA.** “ Quelle, source: <http://de.wikipedia.org/wiki/DNA-Methylierung>

**Epigenetics, „The second code“.**

Changes may be made in both a DNA methylation and in a modification of the histones.

### **BOTENSTOFF – Methylierung**

#### **MESSENGERS methylation**

➔ **Waddington CH** [http://en.wikipedia.org/wiki/Conrad\\_Hal\\_Waddington](http://en.wikipedia.org/wiki/Conrad_Hal_Waddington)

➔ **Präventive Umweltmedizin und klinische Umweltmedizin**

[http://de.wikipedia.org/wiki/Umweltmedizin#Zusatzbezeichnung\\_Umweltmedizin](http://de.wikipedia.org/wiki/Umweltmedizin#Zusatzbezeichnung_Umweltmedizin)

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## Trim28

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“**Endogenous retroviruses (ERVs), which make up 8% of the human genome, have been proposed to participate in the control of gene regulatory networks. TRIM28 binds to endogenous retroviruses (ERVs) and induces heterochromatin in human neural progenitor cells**”

[Bernt - Dieter Huismans](#), Letzte Revision Juli 2017 [www.Huismans.click](http://www.Huismans.click)  
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