

General Biology Presentation

Can psychiatric disorder **be inherited?**

by Joonsuh Park, Hyunjin Choi

Things We Already Know

chromosome



Natural
selection



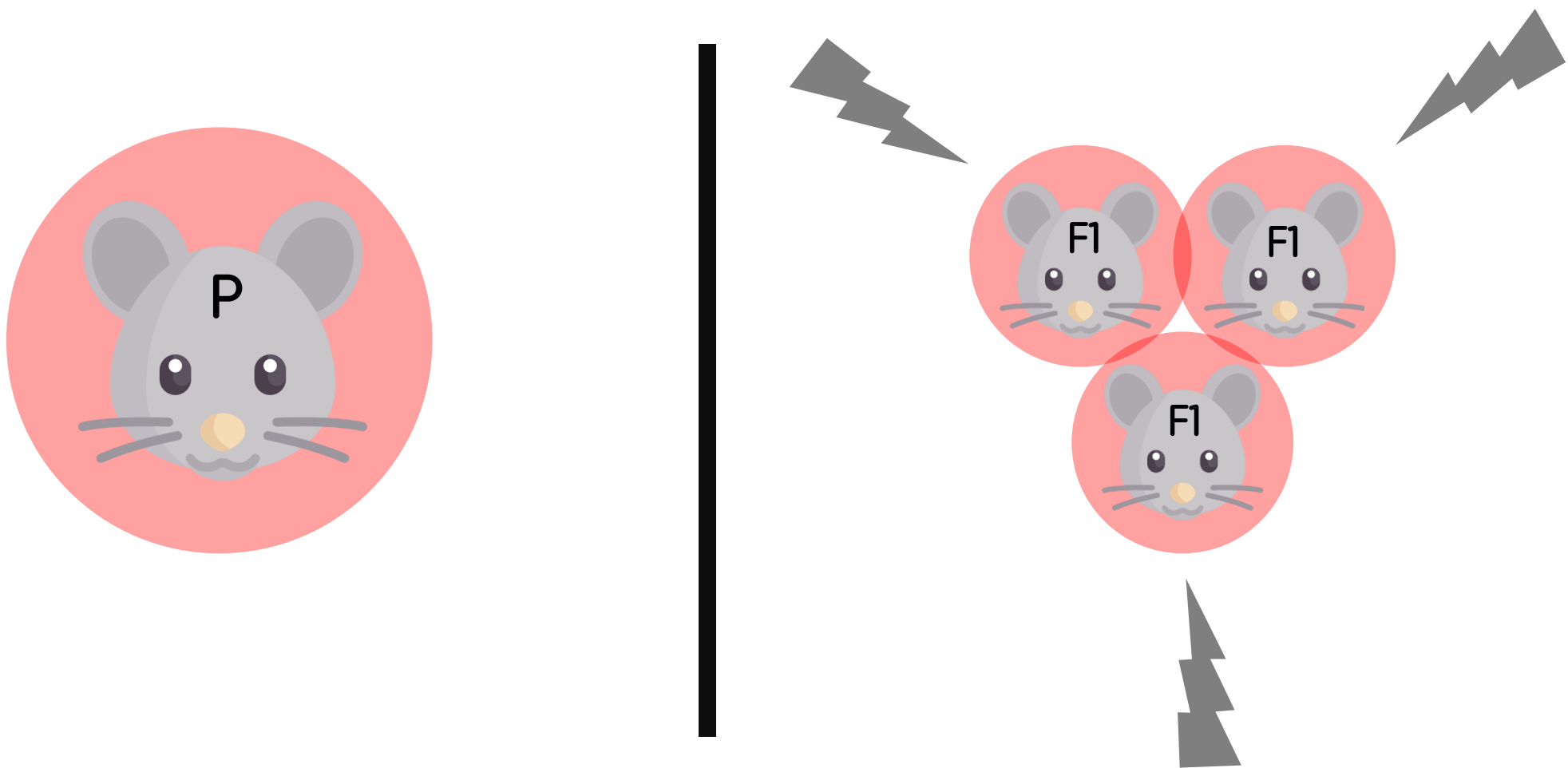
Unexplainable **P**henomenon



Unexplainable Phenomenon



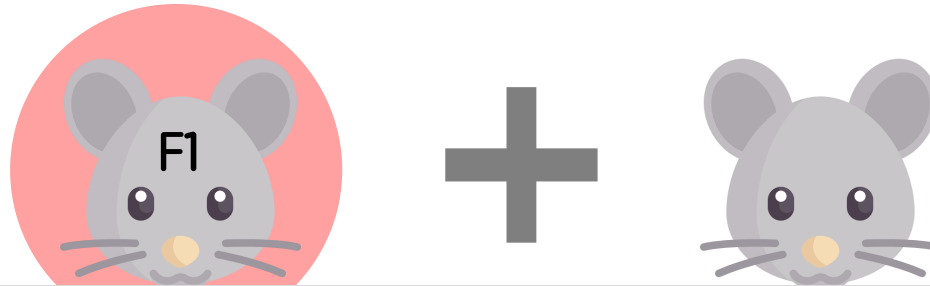
The experiment 1



The experiment 1

Trauma Inheritance, environmental effect

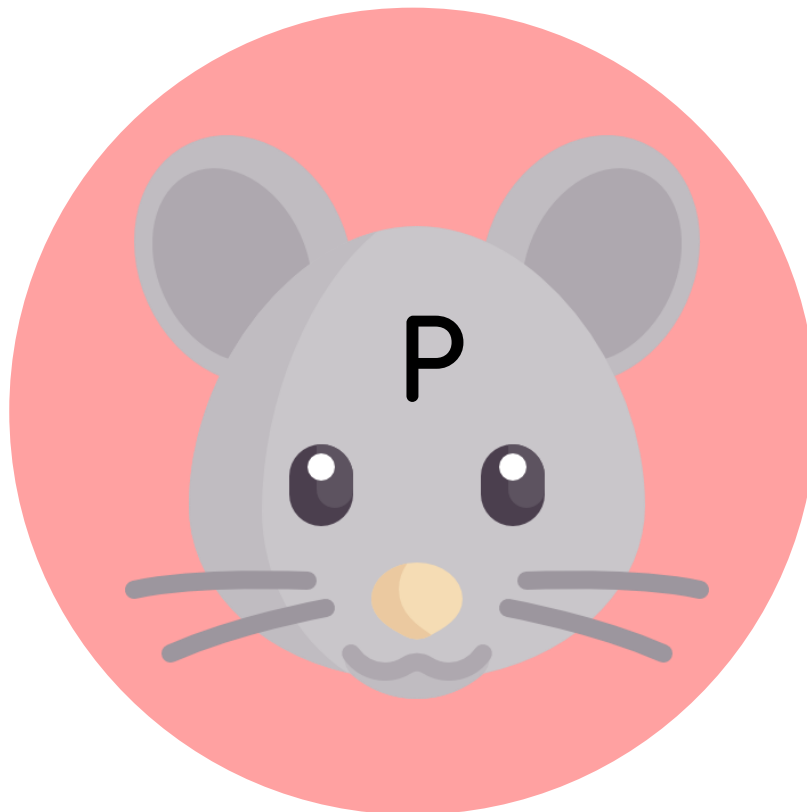
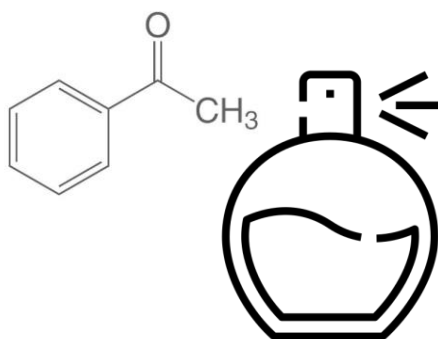
The experiment 1



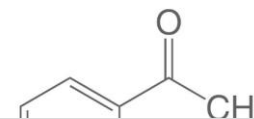
Trauma inherited!



The experiment 2



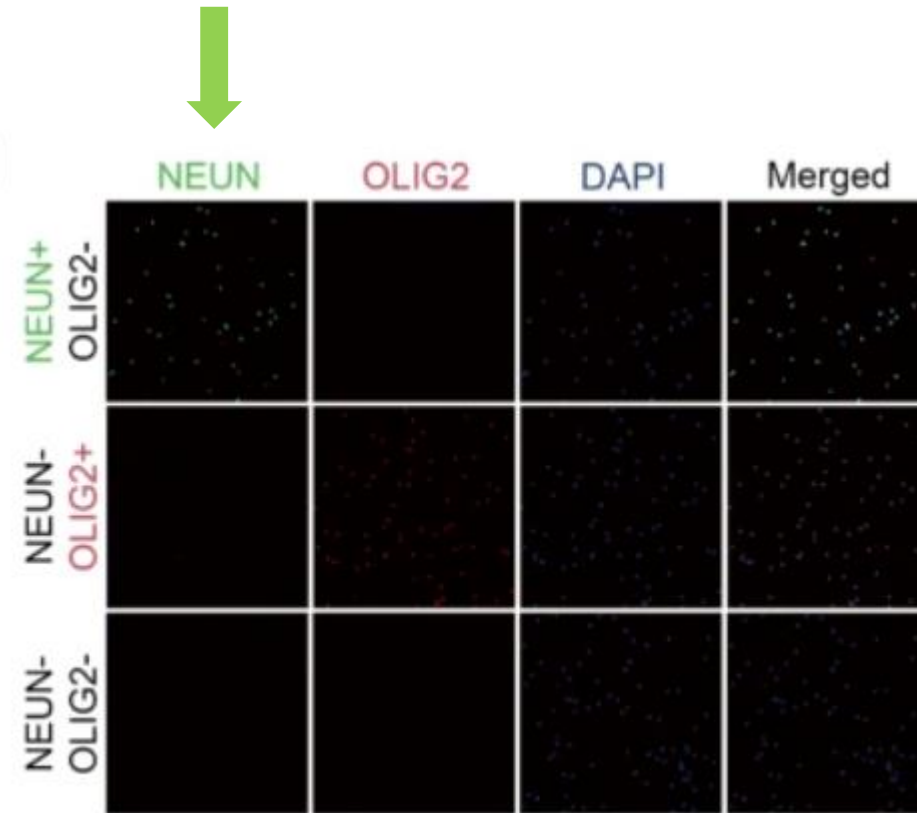
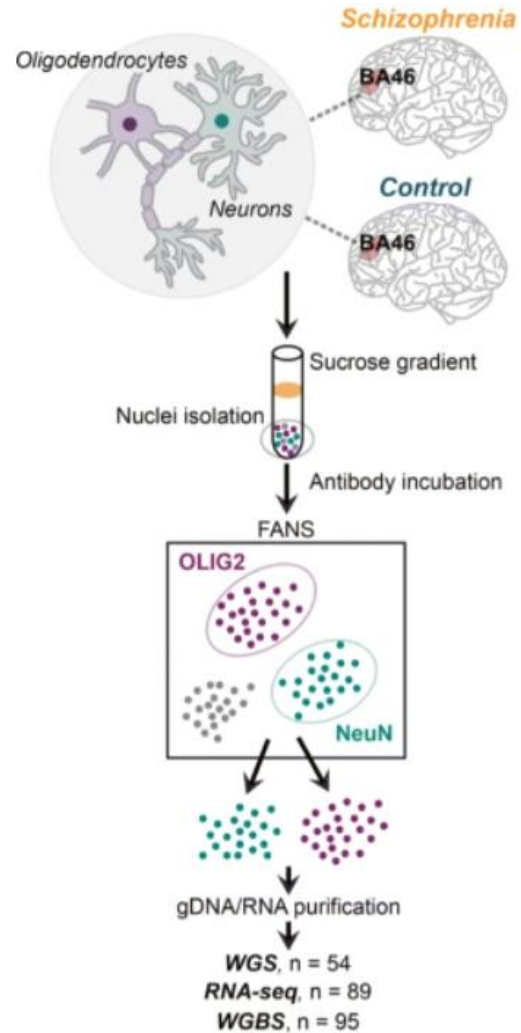
The experiment 2



Trauma inherited!



Epigenetic Links to Schizophrenia risk



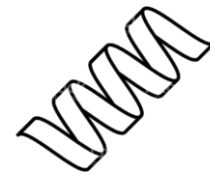
Then How Does Inheritance Occur ?

Epigenetics

Study of heritable phenotype changes that do not involve alterations in the DNA sequence.



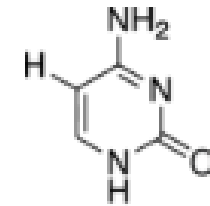
No change in DNA



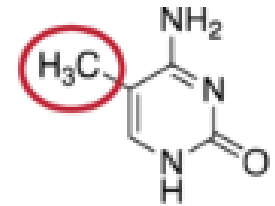
Change in gene expression

Factors of Epigenetics

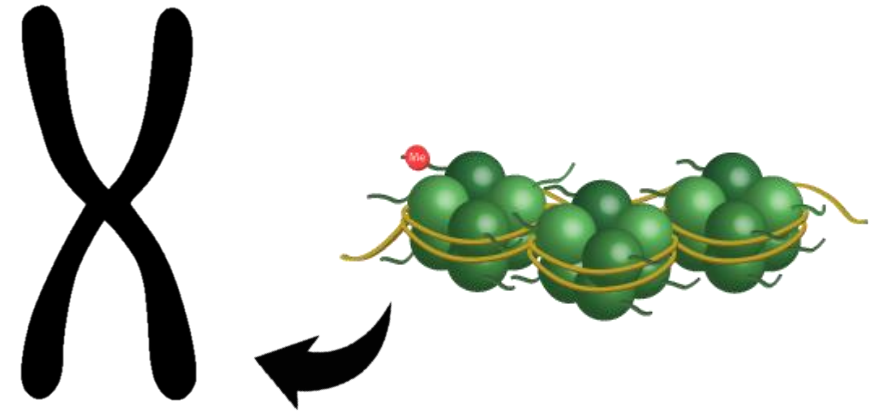
- DNA Methylation
- Histone protein transformation
- Chromatin structure
-



Cytosine

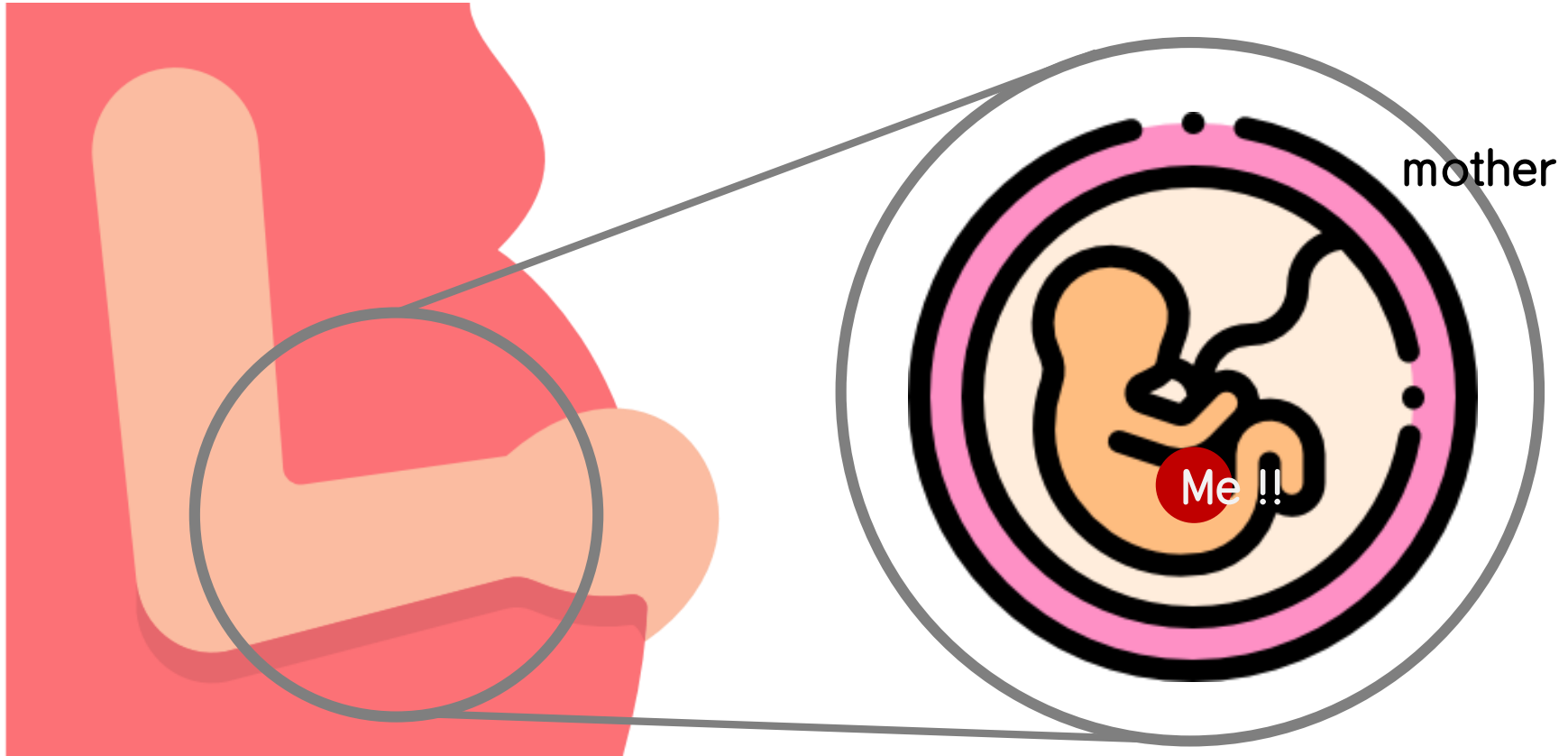


methyated Cytosine

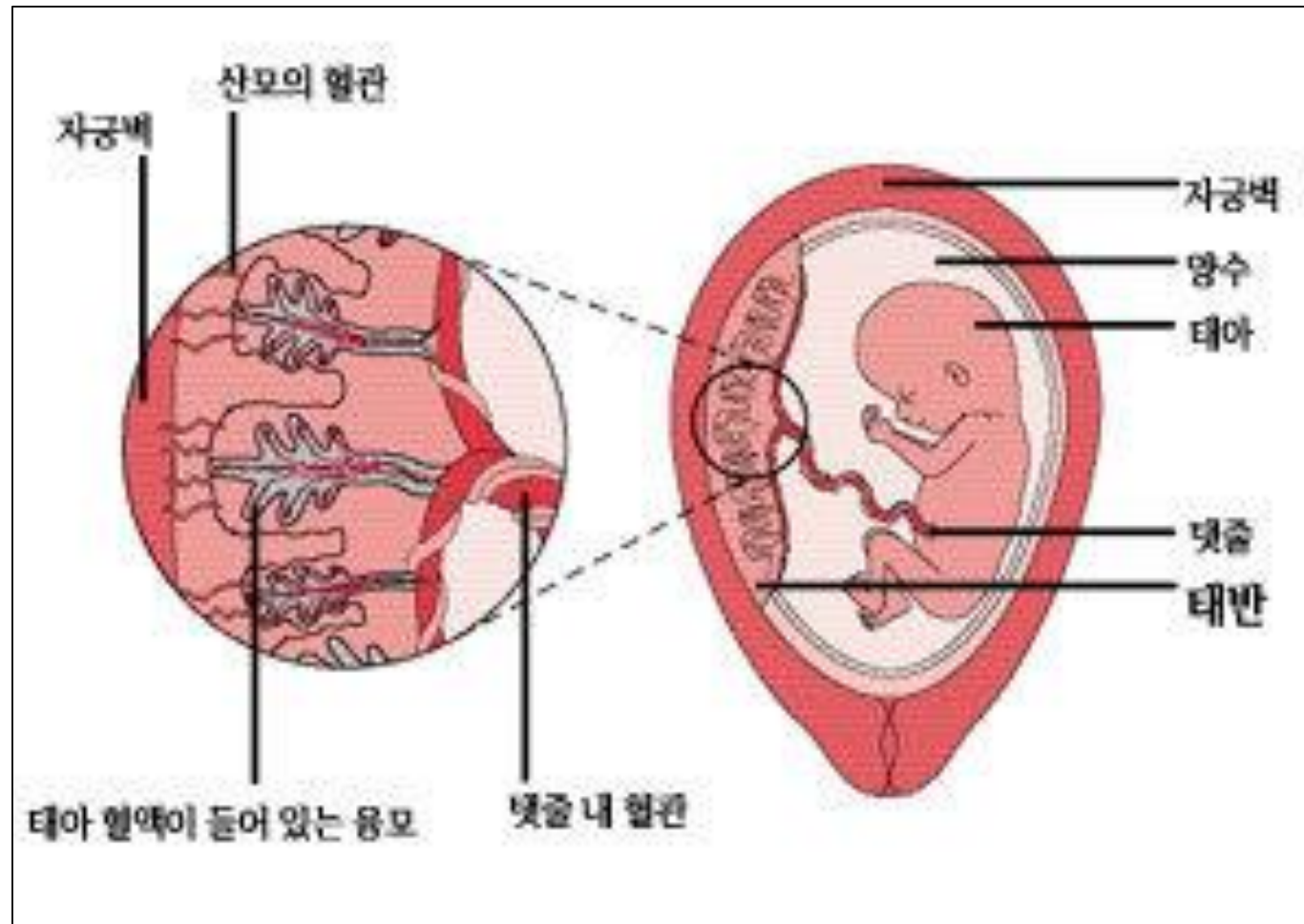


1. Chemicals moving through Placenta

grandma

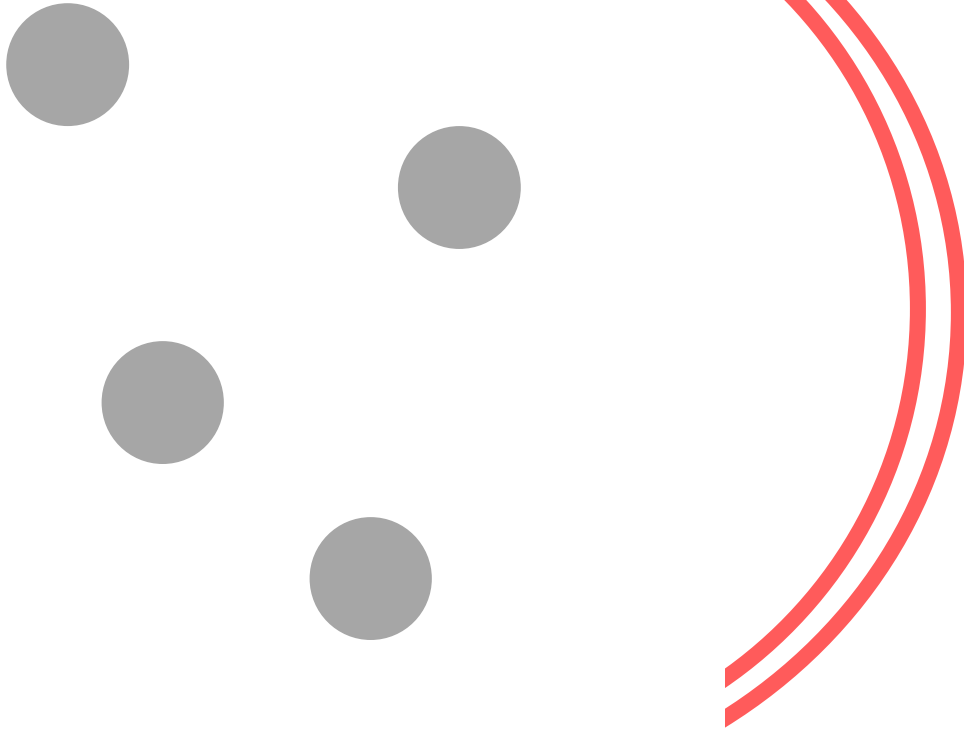


1. Chemicals moving through Placenta

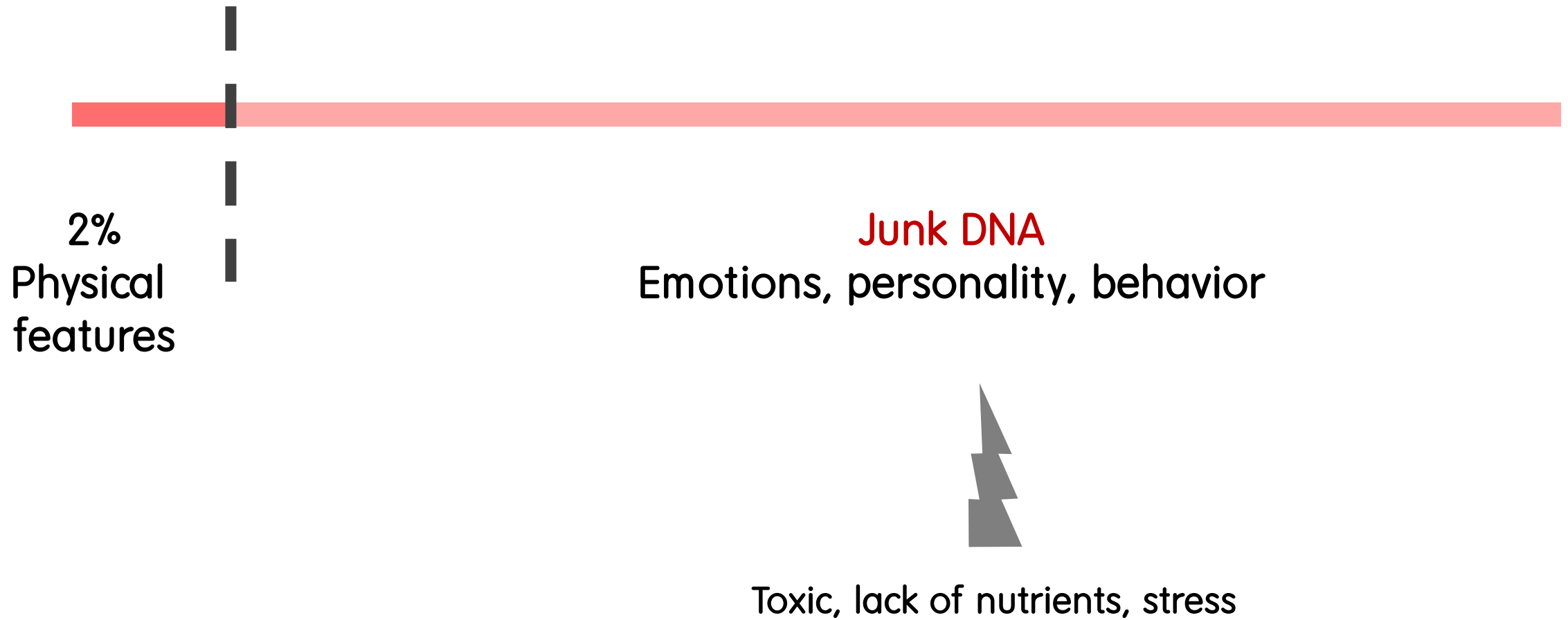


1. Chemicals moving through Placenta

Particles made when stressed



2. Junk DNA



2. Junk DNA

parent



offspring



Thank you for listening 😊