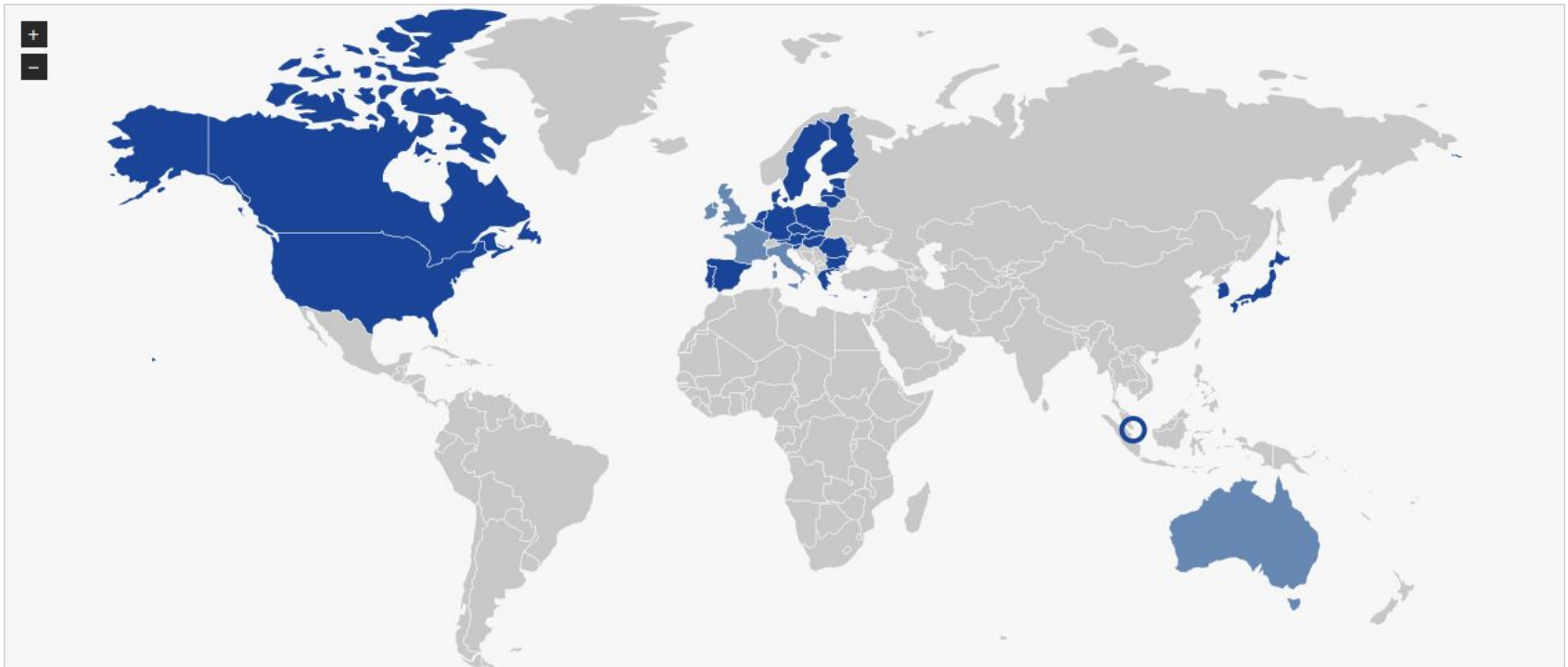


IHEC Data Portal Presentation for InTBIR

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2016-04-29

What is IHEC?

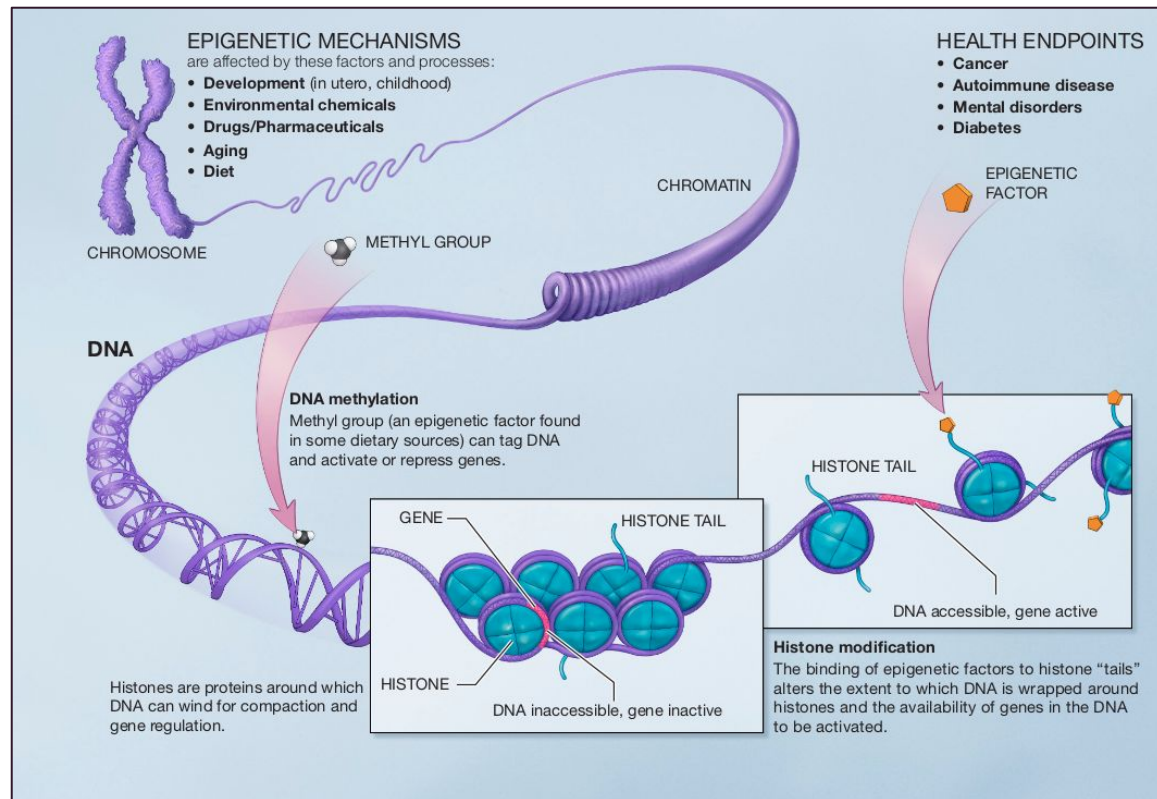
- International effort with several funding agencies. Member groups:
 - take part in committees working on standards (assay, data/metadata distribution, ethics...)
 - commit to adhere to these standards
- Goal: Providing reference epigenomes for a variety of normal and disease tissues



What is epigenomics?

- Study of epigenetic modifications (EM) on genetic material of cells
- EM: Reversible modifications on cell DNA or histones
 - Affect gene expression without altering DNA sequence
 - Partly inherited, partly imputable to environment

- Types of modifications:
 - DNA methylation
 - Histone modifications



IHEC Data Portal

- Goal of the Portal: Integrate epigenomic **public** datasets produced within the International Human Epigenome Consortium
 - Raw data is in controlled access repositories
- Launched in June 2014
- As of April 2016, hosts over 7,000 human datasets
- Currently holding data from 7 consortia, others coming soon