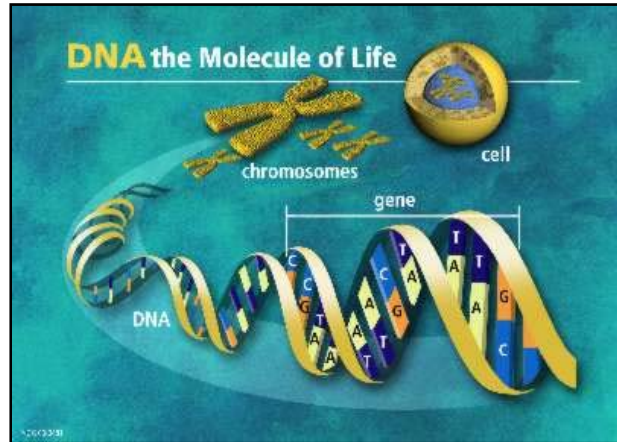


# From Base Pairs to Bedside: A Timeline



1953

Watson & Crick describe the double helix.

1983

Scientists map the first human disease gene – Huntington Disease.

1990

Start of the [Human Genome Project](#) (HGP). Project includes ELSI (Ethical, Legal, Social Implications).

1997

Alterations in the [BRCA1/BRCA2](#) genes show increased risk for breast and ovarian cancer.

2002

National Human Genome Research Institute (NHGRI) launches "[Genetics & Rare Diseases Center](#)".

2003

Human Genome Project completed.

2005

Development of [HapMap](#), a catalog of common genetic variations, which help explain genetic factors in common human diseases, e.g. age-related blindness/ obesity.

2004

The CDC and NHGRI partner to launch first version on-line "[My Family Health Portrait](#)".

2008

The [Genetic Information Nondiscrimination Act](#) (GINA) was passed (protection against genetic health and employment discrimination).

Today

>1,800 disease genes identified; >2,000 genetic tests are available; [genomic competencies for all nurses](#) (2005 & 2009; [Graduate Nurses, 2012](#))