

70 years of the NHS

70 years of genetics and genomics in healthcare

Genomics in the NHS

Birth of the NHS

1946 First genetic counselling clinic in Europe started at Great Ormond Street Hospital

1948 NHS launched



1958 The first consultant clinical geneticist appointed in the UK at Great Ormond Street Hospital



Early genetics services

1960 Cytogenetics starts to be used for diagnoses

1971 Cytogenetics is funded in some laboratories by the NHS

Early diagnostics

1985 First NHS-funded DNA diagnostic service is launched



Testing and sequencing

1997 DNA sequencing used within NHS diagnostic services



2001 Molecular testing for BRCA1&2 mutations in high-risk families

Genomics in mainstream healthcare

2013 First multigene sequencing diagnostic test for tumour profiling in the NHS

2016 Health Education England's Genomics Education Programme is launched to support NHS staff to have the right knowledge, skills and experience to ensure the NHS remains a world leader in genomic medicine



2018 NHS Genomic Medicine Service to be launched in the autumn

1948

1950

1960

1970

1980

1990

2000

2010

2018

Research and discovery

Genetic discoveries

1953 The DNA double helix structure is identified

1966 The number of human chromosomes is established

1961 Genetic code deciphered: how DNA provides the instructions to make an organism



First DNA sequencing



1977 Sanger sequencing developed and first genome (a bacteriophage) is sequenced

Copying DNA

1983 Polymerase chain reaction (PCR), a way of making copies of DNA, is developed – essential for most sequencing technologies



From research to reality

1990 Human Genome Project begins



1995 First bacterial genome is sequenced

1999 First human chromosome (22) is sequenced

Genomics in the new millennium

2003 Human Genome Project is completed

2012 UK government announces 100,000 Genomes Project

2014 Cost of sequencing a whole genome reduces to \$1,000

2016 First patients enrolled in 100,000 Genomes Project receive diagnoses



Find out more about genomics and the future of healthcare

www.genomicseducation.hee.nhs.uk

Genetics And Education

Jiyuan Zhang



Genetics And Education:

Reviewing **Genetics And Education**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is truly astonishing. Within the pages of "**Genetics And Education**," an enthralling opus penned by a very acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve in to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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