

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



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