

The Genomics Master level Framework

The full MSc course comprises eight core modules: seven taught modules of 15 credits each and one research module of either 60 or 30 credits. A range of optional modules are available for you to design your own learning experience to complement your career needs, and to complete the full programme of 180 credits. Detail of each module and dates of delivery for the University of Exeter can be found at: <http://www.exeter.ac.uk/postgraduate/taught/medicine/genomicmsc/>

The University of Exeter are offering two co-taught core modules at UWE, Bristol. The dates of the co-delivered programme at Bristol are:

- **Genomics of Common and Rare Inherited Disease**
30th January - 3rd March 2017 (Contact days 9th, 10th and 21st February 2017)
- **Molecular Pathology of Cancer and Application in Diagnosis, Screening and Treatment**—20th February - 24th March 2017 (Contact days 2nd, 3rd and 15th March 2017)

We are happy to help and provide support to help you choose a package to suit your development needs

If you have any queries regarding *any* aspect of the Genomics Education programme offers or require assistance with university or funding applications please contact workforce development leads:

- Mrs Mel Watson (UBH-TR.WEGMC@nhs.net)
- Prof Aniko Varadi (Aniko.Varadi@uwe.ac.uk)

Genomics Education Programme **NHS** Health Education England

Programme Networks

KEY

- HEI Master's in Genomic Medicine
- NHS England GMCs

HEER REGIONS

- North West
- North East
- Yorkshire & the Humber
- West Midlands
- East Midlands
- East of England
- Thames Valley
- Wessex
- South West
- Kent, Surrey & Sussex
- North West London
- North, Central & East London
- South London

Universities

- 1 Newcastle University
- 2 University of Manchester
- 3 University of Sheffield
- 4 University of Birmingham
- 5 Cambridge University
- 6 University of Exeter
- 7 University of Southampton
- 8 Queen Mary University of London
- 9 Imperial College London
- 10 St George's University London

⇒ www.WEGMC.org
 ⇒ www.genomicseducation.hee.nhs.uk
 ⇒ www.exeter.ac.uk/postgraduate/taught/medicine/genomicmsc/

Genomics Education Programme **NHS** Health Education England

West of England Genomic Medicine Centre (WEGMC) Education & Training

Free CPD modules for NHS staff

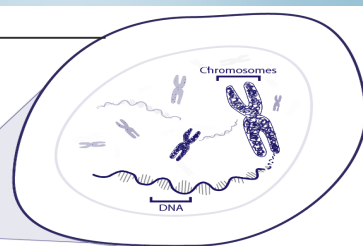
Winter 2016 update

Education & Training lead: Mel Watson (UBH-TR.WEGMC@nhs.net)

NHS
West of England
NHS Genomic Medicine Centre

Human cell

Most cells in the human body have a **complete** set of genes



Your **genome** is one whole set of all your genes plus all the DNA between your genes.

There are around **20,000** genes in your **genome**

About the 100,000 Genomes Project

Learning more about genomes can identify the cause of genetic diseases and may help to improve treatments. When the genome sequences of patients with the same condition are compared, it is possible to see patterns.

The Project will sequence 100,000 whole genomes from around 70,000 people. Participants are patients with a rare genetic disease and their families and patients with cancer. The results will be linked with patients' medical records and stored securely. By combining these two sets of information and allowing authorised researchers to access it, the Project aims to:

- Provide a diagnosis for some patients with rare diseases
- Learn how to adapt cancer treatment by looking at the genome of the tumour
- Make new discoveries that will help us understand why some people get ill and others don't
- Develop a genomic medicine service for the NHS
- **Support clinicians and researchers in hospitals, universities and companies of all sizes to develop new medicines, therapies and diagnostic tests**

The Health Education England (HEE) Genomics Education Programme (GEP)

The Genomics Education Programme has been developed by HEE and supports the vision to prepare for the legacy of the 100,000 Genomes Project. This will be achieved through transformational education and training that is focused on developing the capability and capacity of the NHS to apply genomic medicine for patient benefit.

The GEP is the NHS's method of ensuring its staff have the knowledge, skills and experience to ensure that the health service remains a world leader in genomic and precision medicine – particularly for NHS England Genomic Medicine Centres (GMCs) and the contribution to the 100,000 Genomes Project. The GEP is achieving this through a three-fold approach:

- 1) Directly supporting those professionals involved in the 100,000 Genomes Project and Microbial Genomes work.
- 2) Supporting the wider transformation of NHS services to integrate genomic technologies into healthcare.
- 3) Upskilling existing staff so they can make the most of genomic technologies in their work.

There are a number of ways that as an NHS staff worker you can access training to develop in this exciting area of modern medicine.

We are encouraging all healthcare staff groups to access the training opportunities. Whether you are a doctor, nurse, midwife, AHP, Healthcare Scientist, researcher or those aspiring to specialise within an academic career pathway.

The Genomics Education Programme offer...

Full details of each programme can be found on the GEP website:

www.genomicseducation.hee.nhs.uk

1. **Introductory on-line modules and information videos.** These are excellent 'soundbites' for those new to Genomics

2. **Free on-line courses via the Futurelearn Platform.** Ranging from introductory courses to more in-depth aspects such as technologies. Short on-line resources that can be used after course finishes.



Sign up now for start **23rd January 2017**

<https://www.futurelearn.com/courses/whole-genome-sequencing>.

3. **Academic Taught Offer:** The framework has been designed so that each module can be accessed as a non-assessed standalone CPD module or combined as assessed credited modules towards a PG certificate, diploma or full Master's degree. Eleven Universities are offering modules.

Full funding for completion of individual CPD modules or any of the postgraduate courses is available to NHS employees.

Fully funded part time master's courses are only available at University of Exeter, Queen Mary University of London, Newcastle University, St Georges University of London, University of Birmingham and Imperial college London. **Get your applications in NOW to ensure funding for 2017 start.**

LAST CHANCE