HEE Genomics Education Programme: courses and resources

ONLINE COURSES

AVAILABLE NOW



COURSE: Whole Genome Sequencing: Decoding the Language of Life and Health Target audience: All healthcare professionals

Summary: This mentored online course explores how whole genome sequencing works and its impact on healthcare, both in the UK and globally.

Available: 2x year (March, September); 9 hours, complete at own pace (FutureLearn)
www.futurelearn.com/courses/whole-genome-sequencing



COURSE: 100,000 Genomes Project: Preparing for the Consent Conversation

Target audience: Clinical staff at NHS Genomic Medicine Centres Summary: This course covers key steps of the project's consent process, how to prepare for the discussion, and address patients' concerns or questions. 2 CPD credits (RCP) Available: Permanently; 1.5 hours, complete at own pace (e-Learning for Health)

https://portal.e-lfh.org.uk/Component/Details/465515

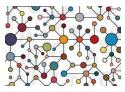


COURSE: Introduction to Genomics

Target audience: All healthcare professionals Summary: This course outlines how genomic information is being used to support clinical practice, and its future impact on healthcare.

Available: Permanently*; 1.5 hours, complete at own pace (GEP website)
www.genomicseducation.hee.nhs.uk/courses/courses/introduction-to-genomics

* A new course to update and replace this course will be released in spring 2018 as part of our Genomics 101 series



COURSE: Introduction to Bioinformatics

Target audience: Clinical scientists and interested healthcare professionals Summary: This course outlines the principles and practices of bioinformatics, the challenges it faces, and the problems it can help to solve in healthcare. Available: Permanently; 1.5 hours, complete at own pace (e-Learning for Health)

https://portal.e-lfh.org.uk/Component/Details/462387



COURSE: Sample Processing and DNA Extraction

Target audience: Biomedical scientists and histopathologists Summary: This video-based course covers key points of the protocol and best practice for processing blood and tumour samples for the 100,000 Genomes Project. Available: Permanently; 1 hour, complete at own pace (e-Learning for Health) porguk (Component/Details (462284)

https://portal.e-lfh.org.uk/Component/Details/462384



COURSE: Tumour Assessment in the Genomics Era

Target audience: Histopathologists, and biomedical and clinical scientists Summary: This series of modules has been developed to support NHS staff who are assessing FFPE tumour samples going forward for genomic testing. Available: Module 1 available now; rest to follow summer 2018 (Philips PathXL)

COMING SOON



COURSE: Genomics 101

Target audience: All healthcare professionals, students and educators Summary: This collection of short courses provides a grounding in the science of genomics before delving in to the applications in healthcare. Available: Summer 2018 (e-Learning for Health)

FILM AND ANIMATION

AVAILABLE NOW



FILMS: Genomics in Medical Specialties

Target audience: Clinical staff within each medical specialty (non-experts in genomics) Summary: These films feature interviews with genomics 'champions', highlighting the impact of genomics in their specialty. Provided with useful supporting information. Available: On our <u>website</u> (with supporting material), <u>Vimeo</u> and <u>YouTube</u>



FILMS: Genomics in Practice

Target audience: Staff within each professional group, and their colleagues Summary: These films highlight how professions are being shaped by genomics, and the vital part staff play in delivering a genomic medicine service to patients. Available: Nursing film now on <u>Vimeo</u> and <u>YouTube</u>; midwifery film due autumn 2018



FILMS: Genomics Specialist Careers

Target audience: All health professionals Summary: Ever wondered what a clinical bioinformatician does? Find out about this and other specialist roles in genetics and genomics in our new series of films. Available: Bioinformaticians film now on <u>Vimeo</u> and <u>YouTube</u>; genetic counsellors and clinical geneticists films due summer 2018



FILMS: Taking and Drawing a Family History

Target audience: Clinical staff and healthcare educators Summary: Based on three patient scenarios, these films show the questions used to gather a family history, and demonstrate how the genetic pedigree is constructed. Available: On <u>Vimeo</u> and <u>YouTube</u>



FILMS: Public Health Masterclass

Target audience: All healthcare professionals, especially public health professionals Summary: This collection of films from HEE's Public Health Masterclass features fulllength talks from genomics experts including Prof Tom Fowler and Prof Nick Loman. Available: On <u>Vimeo</u> and <u>YouTube</u>. Coming soon as a course with certification



ANIMATION: 'Are you ready?' GEP animation

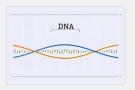
Target audience: All healthcare professionals, students and educators Summary: This short animation briefly outlines the impact of genomics on healthcare, and the broad range of education and training opportunities offered by the GEP. Available: On <u>Vimeo</u> and <u>YouTube</u>



ANIMATIONS: Genomics Fun Facts

Target audience: All healthcare professionals, students and educators Summary: These short animations highlight key facts around genomics, and offer a fun and engaging way to spark a conversation about genomics in healthcare. Available: On <u>Vimeo</u> and <u>YouTube</u>

COMING SOON



ANIMATIONS: Genomics 101 animations

Target audience: All healthcare professionals, students and educators Summary: These introductory animations provide accessible explanations of a number of key concepts, including DNA, genes, meiosis, mitosis and genetic inheritance. Available: Spring 2018 on <u>Vimeo</u> and <u>YouTube</u>

FACTSHEETS AND CLINICAL TOOLS

AVAILABLE NOW

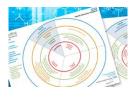
PDFs: Genetic Conditions factsheets

Target audience: GPs and other health professionals Summary: Key facts of rare, inherited conditions (based on 100,000 Genomes Project's additional findings), with clinical features, diagnosis, management and treatment. Available: On our <u>website</u>

				1
		1.		
		-	The Contract of the Carbons	-
-				
	monatelogy and games		the state beaution over the second second	
			The second secon	
inter inter			And and a second	
No. of Concession, Name			New Concession	-1
T		Contaction of the local division of the loca	An escal de destante challes des challes des en la challes estánticas de esta esta esta está de está de escala de está de está de está de está de está de está de está de está	1
Contract of			And a second sec	1
1 m			And the second s	l
		and the second s		F
			State of the plane strated of the state of the state of the	E
Estim			the second	E

PDFs: Genomics in Mainstream Medicine factsheets

Target audience: Clinical staff within each medical specialty Summary: The Genomics in Mainstream Medicine Working Group produced a series of factsheets outlining the context and impact of genomics on key clinical specialisms. Available: On our <u>website</u>



PDFs: 100,000 Genomes Project Eligibility Wheels

Target audience: Clinical staff at NHS Genomic Medicine Centres and delivery partners Summary: A series of easy reference tools to identify potential participants eligible to take part in the 100,000 Genomes Project Available: On our <u>website</u>



TEMPLATE: Family History Drawing Tool

Target audience: Clinical staff Summary: This lightweight tool acts as a handy reminder for healthcare staff of the key steps and symbols used when taking and drawing a genetic pedigree. Available: On request, via <u>email</u>

COMING SOON



PDF: 100,000 Genomes Project: Feedback of Results – Guide for Clinicians

Target audience: Clinical staff at NHS Genomic Medicine Centres and delivery partners Summary: This guide is designed to support clinical staff who recruited participants to the 100,000 Genomes Project and are now feeding back results in the genomic report. Available: Summer 2018

Genomics Education Programme

EDUCATIONAL GAMES

AVAILABLE NOW



BOARD GAME: Genomics Game

Target audience: Nursing associates and nurses with little/no prior genomics knowledge Summary: This board game was developed to start the discussion about genomics in an engaging and non-threatening manner, reinforce knowledge and increase retention. Available: On request, via our <u>website</u>

COMING SOON



BOARD GAME: Genomics Game: Midwives Edition

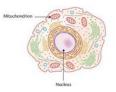
Target audience: Pre- and post-registration midwives Summary: This new edition of our popular Genomics Game is designed to raise awareness about genomics within midwifery practice and healthcare as a whole. Available: Autumn 2018



CARD GAME: Dr Jargon: Genomics Edition

Target audience: Health professionals familiar with genetics and genomics Summary: Dr Jargon is a quickfire game that challenges players to describe genetics and genomics terms using simpler language – useful when talking to colleagues or patients. Available: Autumn 2018

ADDITIONAL RESOURCES



IMAGES: Flickr channel

Target audience: All healthcare professionals, students and educators
Summary: A collection of genetic and genomic diagrams and infographics, available to download and use in teaching sessions and presentations (with attribution).
https://www.flickr.com/photos/genomicseducation/with/13080952404/



VIDEOS: YouTube and Vimeo

Target audience: All healthcare professionals, students and educators
Summary: Our collection of films and animations spans a broad range of genetics and genomics topics, and is available to be shared and embedded (with attribution).
▶ Vimeo | YouTube



ARTICLES: Genomics Education Programme blog

ang nu tinan : stander genetics colonization the field name and the services of the standard colonization is taken the instantice on of genetic consolities is sharp's shall be environed and the standard colonization of the standard colonization of the standard colonization of the standard colonization and the standard colonization of the standard colonizatio Target audience: All healthcare professionals, students and educators Summary: The GEP blog features regular articles on a range of topics, with particular emphasis on how new developments in genomics are relevant to NHS staff. ▶ <u>https://www.genomicseducation.hee.nhs.uk/news/</u>



SOCIAL MEDIA: Twitter, Facebook and LinkedIn

Target audience: All healthcare professionals, students and educators
Summary: The GEP shares its latest news and resources every day on social media, as well as highlighting useful links and initiatives elsewhere. Make sure you're following!
► Twitter | Facebook I LinkedIn