



**Manchester Academy for  
Healthcare Scientist Education**

MAHSE STP Open Day  
January 2017

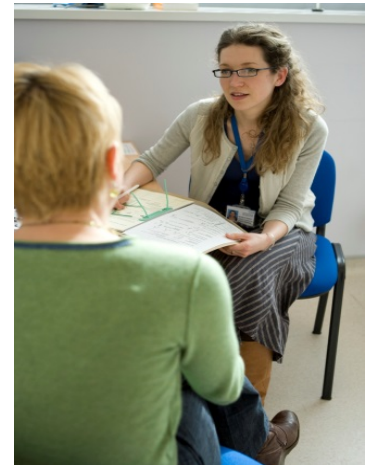
# Genomic Sciences

Programme Director: Prof Bill Newman  
Genomic Counselling Pathway lead: Dr Rhona MacLeod  
Genomics Pathway Lead: Dr Siddharth Banka



# MSc Clinical Science (Genomic Sciences)

- 2016: New STP programme – 2 pathways Genomics and Genomic Counselling
  - ~ 15 g.c. and ~ 25 genomic trainees annually
- 2017: New 3<sup>rd</sup> pathway Molecular pathology
- 3 year programme – academic teaching and work based learning
  - 120 credits taught
  - 60 credits research project



# Programme Structure

Year 1	Introduction to Healthcare Science, Professional Practice and Clinical Leadership [30 credits]		Introduction to Genomics and Clinical Practice  [30 credits]
	[including 10 divisional credits]		
	Generic		Divisional
Year 2 Specialist Practice [60]	Specialist Module  [15 credits]	Specialist Module  [15 credits]	Research Project Part 1  [30 credits]
	[5 generic RM credits]	[5 generic RM credits]	
	Generic	Specialism	
Year 3 Specialist Practice [60]	Specialist Module  [15 credits]	Specialist Module  [15 credits]	Research Project Part 2  [30 credits]
	Specialism		

# MSc Clinical Science: Specialist Modules for Genomics

## Genomics

Year 1 Core Modules [60]	Introduction to Healthcare Science, Professional Practice and Clinical Leadership: 64560 [30 credits]		Introduction to Genomics and Clinical Practice. 65460 [30 credits]		
	Professional Prac [20 credits - compulsory]	Bioinformatics [10cr - compulsory]	Genetics [10cr - compul]	Optional [10 credits]	Optional [10 credits]
	Including 10 divisional credits				
	Generic [20 credits]		Divisional [40 credits]		
Year 2 Specialist Practice [60]	Prenatal Genomics [15]	Paediatric Genomics [15]	Research Project Part 1 [30]		
	incl. 5 generic RM credits	incl. 5 generic RM credits			
	Generic [10]		Specialism [50]		
Year 3 Specialist Practice [60]	Adult Genetic and Genomic Disorders [15]	Genomics of Sporadic Cancers [15]	Research Project Part 2 [30]		
	Specialism [60]				

[XX] = number of credits



Generic Modules: Common to all divisions of healthcare science

Division/Theme-Specific Modules: Common to a division or theme

Specialist Modules: Specific to a specialism

# MSc Clinical Science: Specialist Modules for Genomic Counselling

## Genomic Counselling

Year 1 Core Modules [60]	Introduction to Healthcare Science, Professional Practice and Clinical Leadership: 64560 [30 credits]		Introduction to Genomics and Clinical Practice: 65460 [30 credits]		
	Professional Prac [20 credits - compulsory]	Bioinformatics [10cr - compulsory]	Genetics [10cr - compul]	Genomic Counselling [10c - compul]	Optional [10 credits]
	Including 10 divisional credits				
	Generic [20 credits]		Divisional [40 credits]		
Year 2 Specialist Practice [60]	Counselling and communication skills for Genetic Counsellors [15] <small>incl. 5 generic RM credits</small>	Applied Genetics and Genomics [15] <small>incl. 5 generic RM credits</small>	Research Project Part 1 [30]		
	Generic [10]		Specialism [50]		
Year 3 Specialist Practice [60]	Advanced Genomic Counselling and Ethical Practice [15]	Genomics and Bioinformatics in Advanced Clinical Care [15]	Research Project Part 2 [30]		
	Specialism [60]				

[XX] = number of credits



Generic Modules: Common to all divisions of healthcare science

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# Innovative teaching

- Involvement of patients
- Case based learning
- ‘Scaffold’ approach to learning – online self-assessment and quizzes and assignments
- Webinars to support block teaching and facilitate peer to peer group experience
- Innovative assessments e.g. OSCE exam



# NHS Curriculum

{ National School of  
Healthcare Science

  
*Health Education England*

## **Modernising Scientific Careers Scientist Training Programme MSc in Clinical Science**

Curriculum  
Genomic Sciences 2016/17



{ National School of  
Healthcare Science

  
*Health Education England*

## **Modernising Scientific Careers Scientist Training Programme Work Based Training**

Learning Guide  
Genomic Sciences 2016/17



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healthcare

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ANY QUESTIONS?