

MSc Genomic Sciences

MAHSE STP Open Day - 8th January 2019

Genomic Counselling Pathway lead: Dr Rhona MacLeod

Genomics Pathway Lead: Dr Siddharth Banka

Cancer Genomics Pathway Lead: Dr Richard Byers

Programme Director: Dr Emma Jenkinson









MSc Genomic Sciences

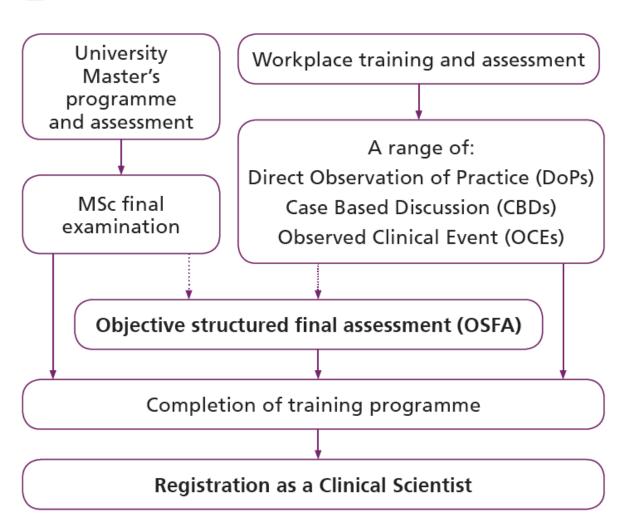
- Genomic Science STP programme 3 pathways
 Genomics, Genomic Counselling and Cancer Genomics
 (~ 15 trainees per pathway annually)
- 3 year programme academic teaching and work based learning
 - ➤ 120 credits taught
 - ➤ 60 credits research project







STP TRAINEE PATHWAY





Programme Structure

	Introduction	to Hea	Ilthcare Science,	Introduction to Genomics and		
Year 1	Professional Practice and Clinic			Clinical Practice		
	Leaue	ı Sı iib [30 credits]			
	[including	g 10 divis	sional credits]	[30 credits]		
	Gener	ric		Divisional		
V0	Specialist		Specialist Module	Research Project Part 1		
	Year 2 Module					
Specialist	Wioddio		[15 orodita]			
Practice			[15 credits]			
[60]	[15 credits]			[30 credits]		
[00]	[5 generic RM cre	edits] [5 generic RM credits			
	Generic			Specialism		
Year 3	Specialist Mo	dule	Specialist Modul	Research Project Part 2		
Specialist						
Practice						
[60]	[15 credits]		[15 credits]	[30 credits]		
	Specialism					



Genomics

Year 1 Core Modules [60]	Introduction to He Professional Pra Leadershi [30 cr	Introduction to Genomics and Clinical Practice. 65460 [30 credits]			
	Professional Prac [20 credits - compulsory]	Bioinformatics [10cr - compulsory] ivisional credits	Genetics [10cr – compul]	Optional [10 credits]	Optional [10 credits]
	Generic [20 credi	Divisional [40 credits]			
Year 2	Prenatal Genomics	Paediatric Genomics	Research Project Part 1		
Specialist Practice	[15]	[15]	[30]		
[60]	incl. 5 generic RM credits	incl. 5 generic RM credits			
	Generic [10]	Specialism [50]			
Year 3 Specialist Practice	Adult Genetic and Genomic Disorders	Genomics of Sporadic Cancers	Research Project Part 2		
[60]	[15]	[15]	[30]		
	Specialism [60]				



Genomic Counselling

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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	Genomic Counselling	Optional
	Including 10 divisional credits			[10cr - compul]	[10c - compul]	[10 credits]
	Generic [20 credi	Generic [20 credits]		Divisional [40 credits]		
Year 2 Specialist Practice [60]	Counselling and communication skills for Genetic Counsellors [15] incl. 5 generic RM credits	Genomics [15]		Research Project Part 1 [30]		
(4) (4) (4) (4) (4) (4) (4) (4) (4) (4)	Generic [10]	Specialism [50]				
Year 3 Specialist Practice [60]	Advanced Genomic Gen Counselling and Bioin		nomics and nformatics in nced Clinical	Research Project Part 2		
	[15]		Care [15]	[30]		
	Specialism [60]					



Cancer Genomics pathway

Year 1 Core Modules [60]	Introduction to He Professional Prac Leadership: [30 cr	ctice and Clinical BIOL64560	Introduction to Genomics and Clinical Practice: BIOL65460 [30 credits]		
	Professional Prac [20 credits - compulsory]		Human Genetics [10cr – compul]	Molecular Pathology [20credits – compulsory]	
	Including 10 di	•			
	Generic [20 credi	ts]	Divisional [40 credits]		
Year 2 Specialist Practice [60]	Haematological Malignancies 1 BIOL6xxxx [15]	Solid Tumours 1 BIOL6xxxx [15]	Rese	earch Project Part 1	
	incl. 5 generic RM credits	incl. 5 generic RM credits	[30]		
	Generic [10]	Specialism [50]			
Year 3 Specialist	Haematological Malignancies 2	Solid Tumours 2	Research Project Part 2		
Practice [60]	BIOL6xxxx [15]	BIOL6xxxx [15]		[30]	
	Specialism [60]				



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

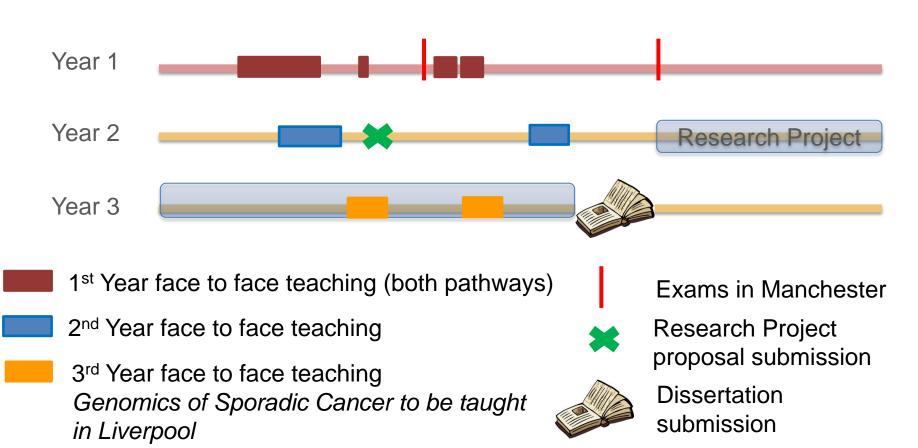






Timelines (Genomics)

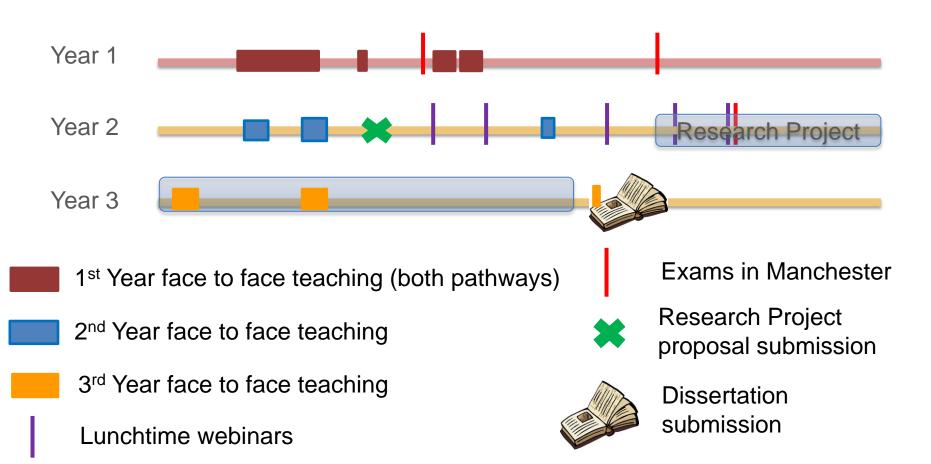
Sept Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug





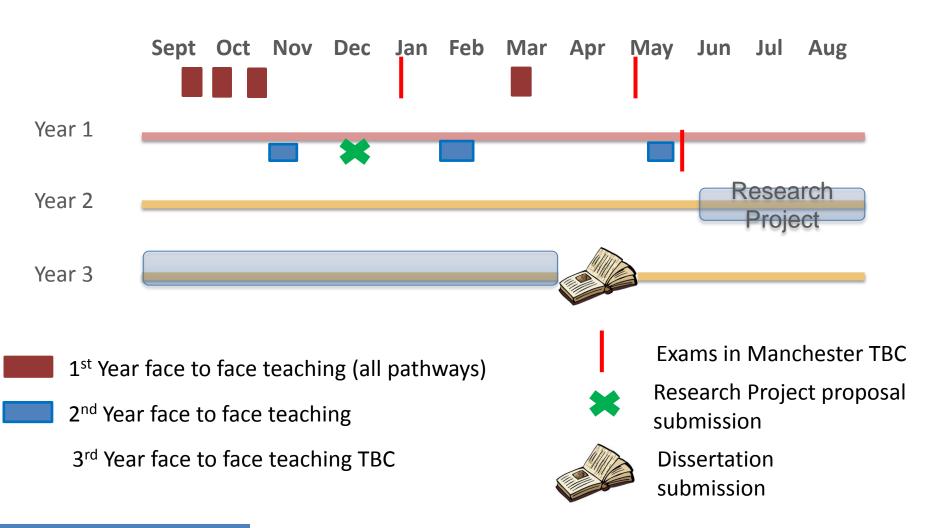
Timelines (Genomic Counselling)

Sept Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug





Timelines (Cancer Genomics)

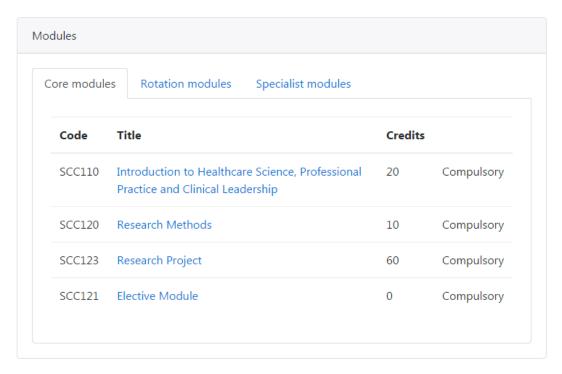




Curriculum

https://curriculum.nshcs.org.uk/programmes/stp

Cancer Genomics (2018)



How would you improve this service? Complete this short survey about your use of the Curriculum Library.

How is the STP programme structured?

How will I be assessed?

Is there a choice of modules that I can complete?

Visit our website for more STP FAQs

Cancer Genomics - programme specification

Click into each module for more information on the workplace and academic learning outcomes associated with each module



Key Contacts

- Emma Jenkinson: Programme Director Emma.jenkinson@manchester.ac.uk
- Siddharth Banka: Pathway Lead (Genomics) Siddharth.Banka@manchester.ac.uk
- Rhona MacLeod: Pathway Lead (Genomic Counselling) <u>rhona.macleod@mft.nhs.uk</u>
- Richard Byers: Pathway lead (Cancer Genomics)
 Richard.byers@mft.nhs.uk
- Catherine Stull: Administrator genomicscience@manchester.ac.uk

http://www.bsgm.org.uk/ http://www.agnc.org.uk/ http://www.acgs.uk.com/



The Programme Team

- Programme Director: Emma Jenkinson (maternity leave)
- Pathway Lead Genomics: Siddharth Banka
- Pathway Lead Genomic Counselling: Rhona MacLeod
- Pathway Lead Cancer Genomics: Richard Byers
- Lecturer: Rebecca Lamb
- Programme Administrator: Catherine Stull
- Lay representatives: Nichola Garde and Dave McCormick
- Genetic Counselling team: Tara Clancy, Georgina Hall, Alison Clarke
- Genomics team: Miriam Smith, Una Maye (Liverpool),
- External examiners: Christine Patch (GC) and Graham Taylor (Genomics)



Any Questions?