DClinSci Year 3, 4 & 5

Aims:

to get to a successful Professional Doctorate!

Focus:

How to help you achieve this



Shazia Dar



Stuart Holmes



Libby Osborn



Claire Moss



Kate Smith

Thanks to:



Karen Kirkby





Anne White

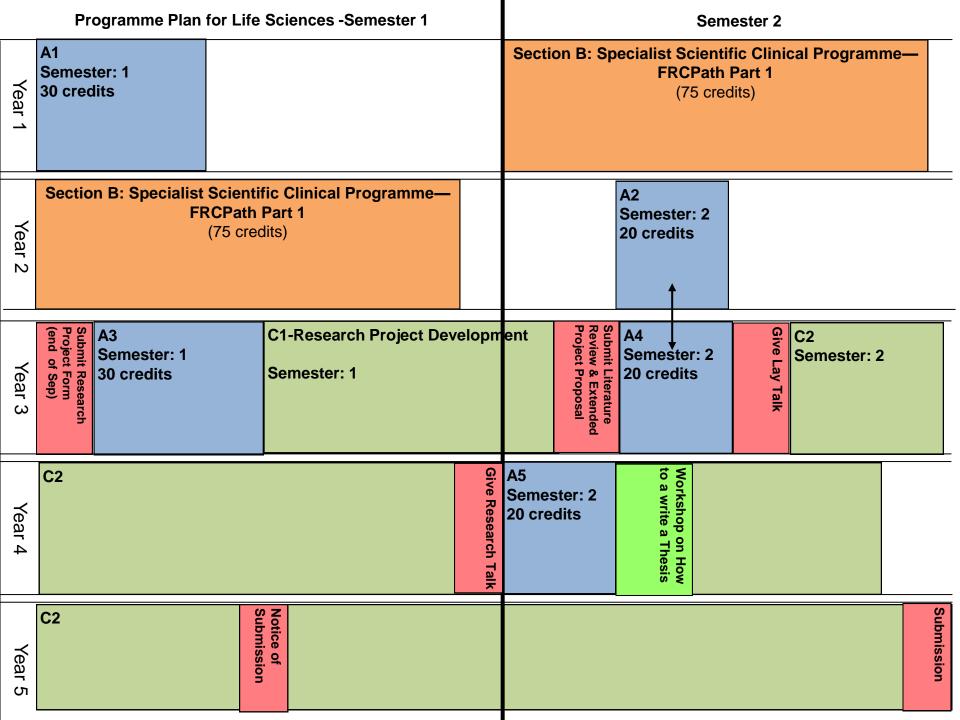






Kai Uus







Easy, stress free, "doing ok", no dramas, happy, content

Stretch zone

Pushing performance, high effort, improving, excitement, adrenaline, growth

Panic zone

Anxiety, worry, bad decisions, irritable, concern, poor performance

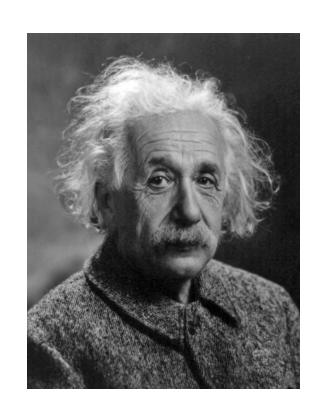
What Is Successful Research?

- Research which can be presented at national and international meetings
- Publishing your data in peer review journals
- Research that has an impact for health care
- Research resulting in a well-written thesis

What is an acceptable Research Project?

If we knew what it was we were doing,

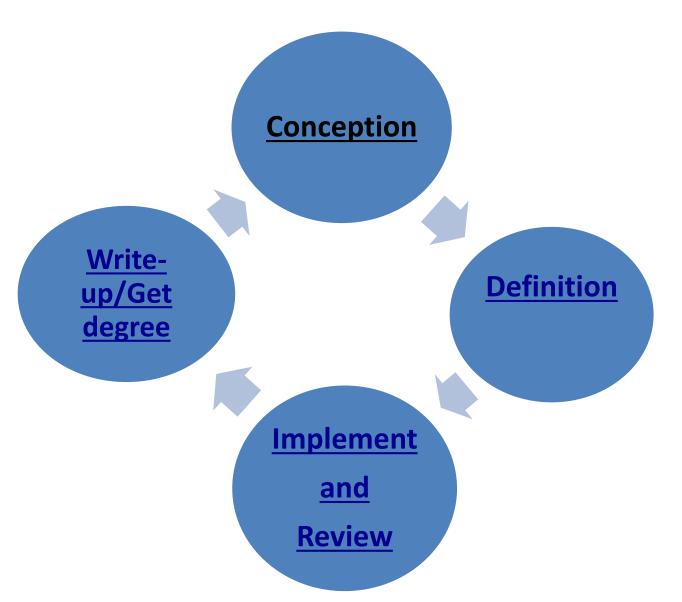
it wouldn't be called 'research,' would it?



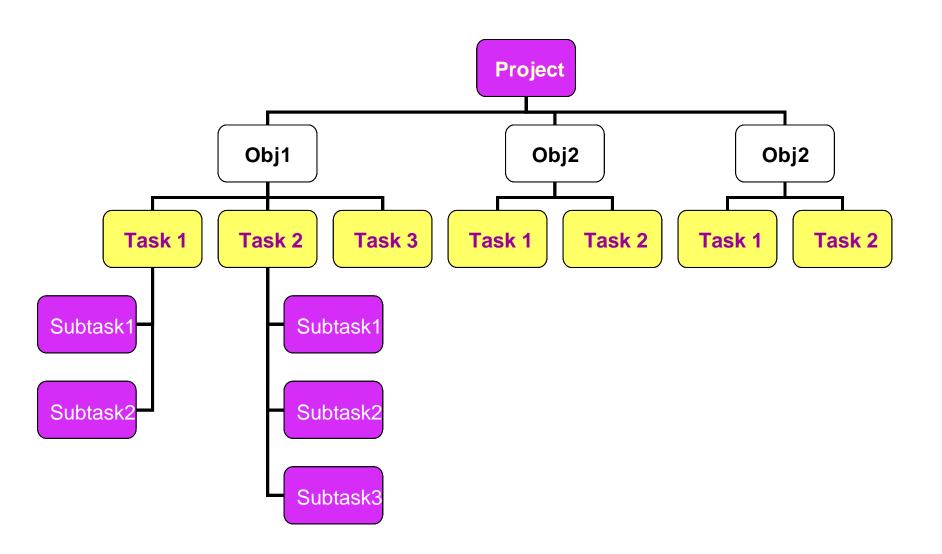
What is an acceptable Research Project?

- Good Background showing the importance and clearly identifying where there are gaps in knowledge
- Hypothesis leading to Aims and Objectives
- Critical Evaluation
- One, two or three sets of data that form chapters in a thesis or one or more papers
- Discussion of the outcomes and importance and impact

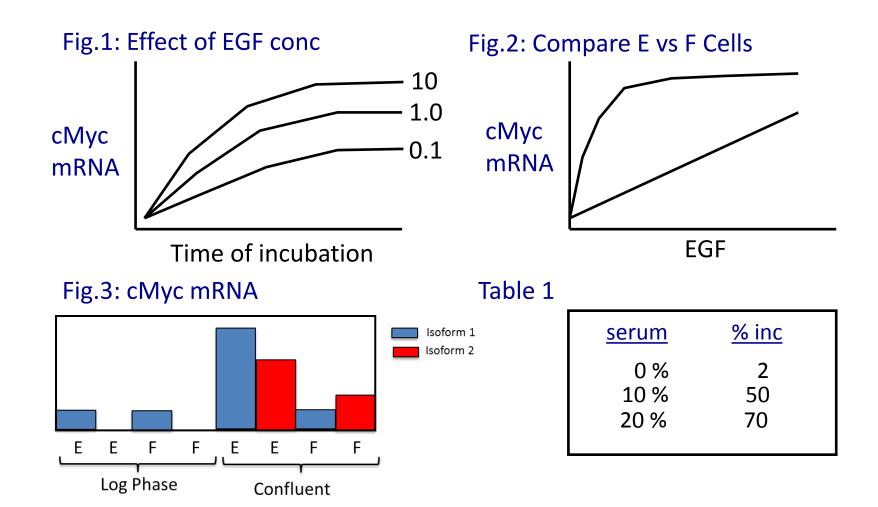
Project management



Are the tasks do-able? How do you question their validity?



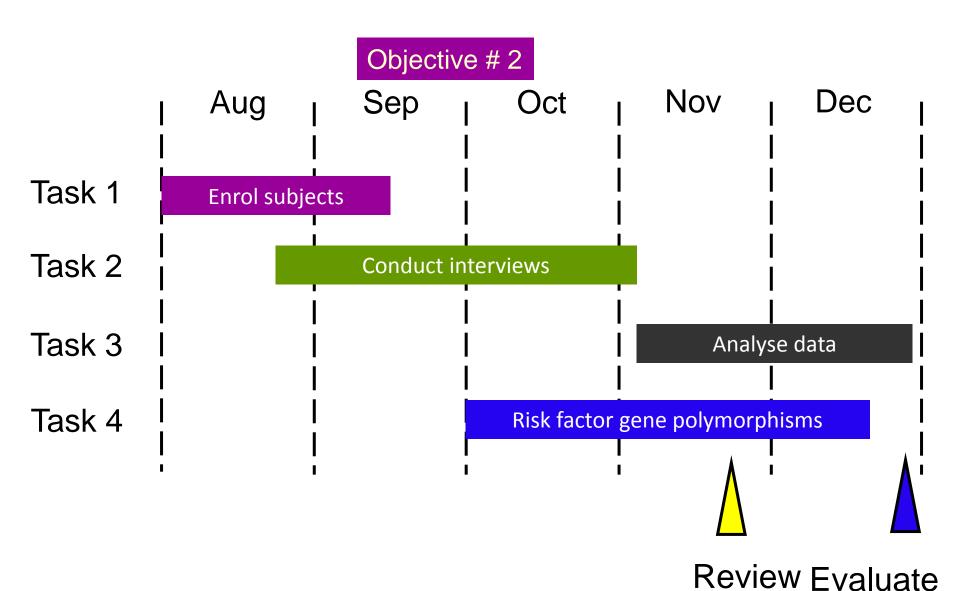
The Paper: If you can't see what it would look like published it may not be worth doing!!!!



Prioritise both experiments and writing/planning/training

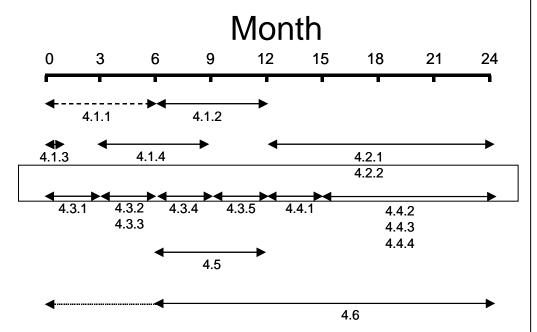
Activity	Month	Month	Month	Month	Month	Month	Month	Month	Month	Month	Month	Month	Month
	1	2	3	4	5	6	7	8	9	10	11	12	13
			'			$oldsymbol{ol}}}}}}}}}}}}}}}}}}}}} $							
Register	•												•
Literature review													
Deadline for literature review			•										
Prepare and rehearse presentation													
Presentation to School/Department								*					
Documented meeting with supervisors	•	•	•	•		•		•	•	•	•	•	
Plan first research unit													
Present outline of first research unit					*								
First research unit													
Review and analyse research results													
Survey of literature													
Courses/conferences													
Learning about equipment & techniques													
Holiday													
Second research unit planning													
Second research unit													
Drafting transfer report													
Finalise transfer report													
Deadline for transfer report											♦		
Transfer viva												*	
Visit from leading professor													

Project timeline - Gantt chart



Cancer Research UK - Development Grant

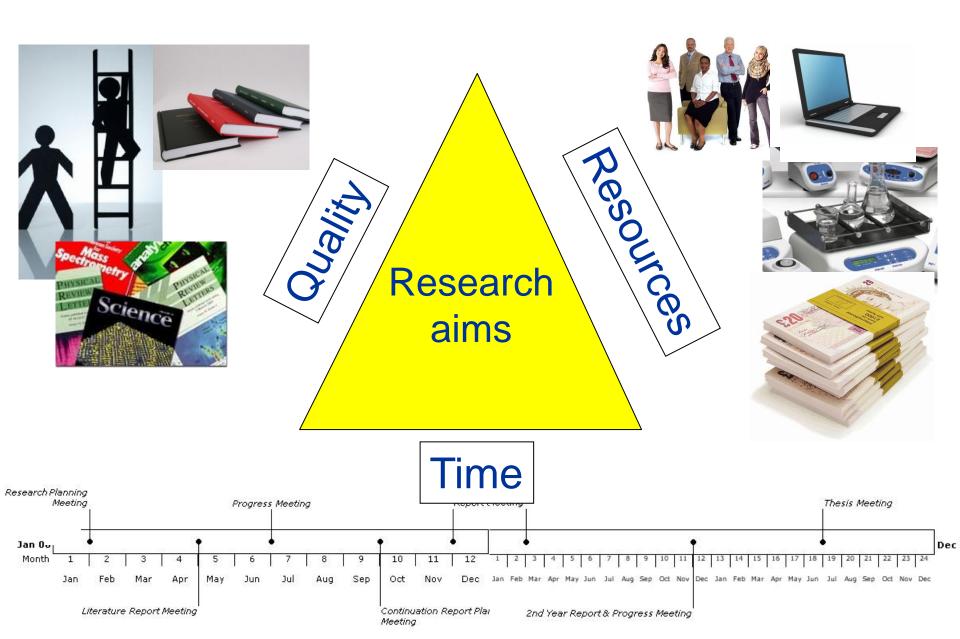
Timelines



Milestones/Deliverables

- 4.1.1 Development of cell lines for rh opticin
- 4.1.2 Production and purification of rh opticin
- 4.1.3 Sale up of human adeno-opticin
- 4.1.4 Development of ELISA Assays
- 4.2.1 Proliferation/apoptosis studies
- 4.2.2 Migration, invasion and adhesion studies
- 4.3.1 Comparison of human/bovine adeno-opticin
- 4.3.2 Optimal single dose of (human) adeno-opticin
- 4.3.3 Histological and Western blot analyses
- 4.3.4 Multiple dosing with adeno-opticin
- 4.3.5 Adeno-opticin with HT1080 and MDA468 tumours
- 4.4.1 Pharmacokinetics (rh opticin)
- 4.4.2 Tumour growth delay studies (rh opticin)
- 4.4.3 Window chamber experiments
- 4.4.4 In vivo metastatic model
- 4.5. Immunogenicity studies
- 4.6. Determination of the biologically active sites in opticin

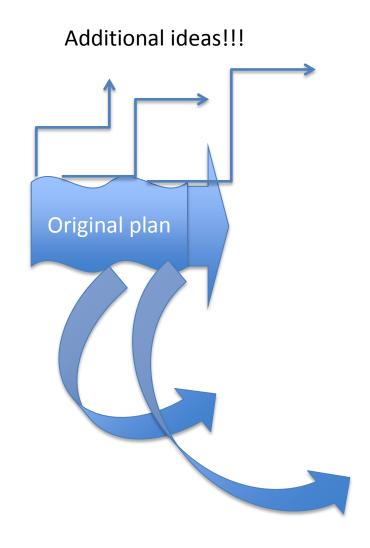
Triangle of Constraints



Beware scope creep

If you need to change the scope, ensure that:

 Everybody is aware of the impact on the schedule and outcomes of the project



This is project managementat a distance/in a team?



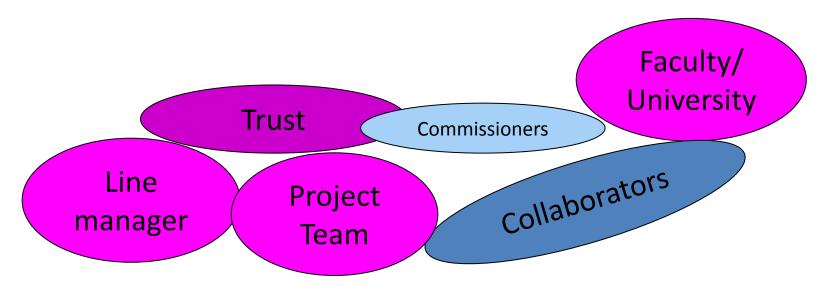
Opportunity for greater success

BUT

Greater risk of things going wrong!!!

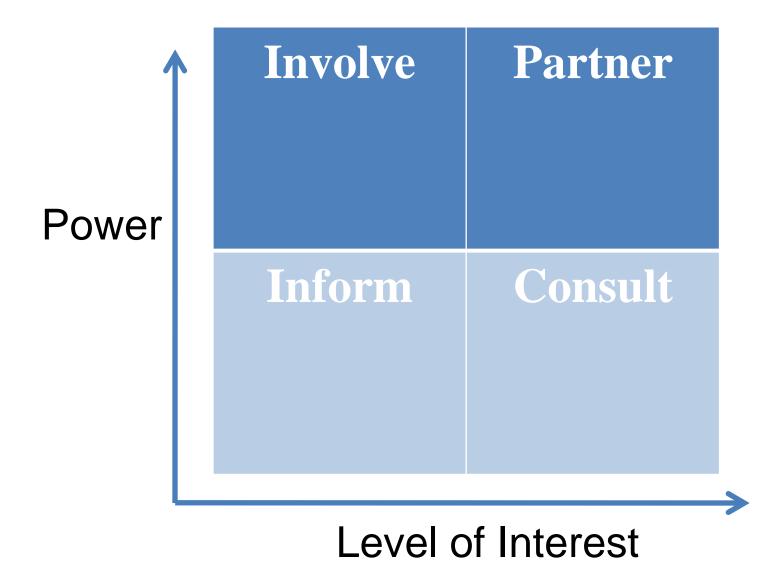
Engage all stakeholders in the research

Who will be affected?
Who will be needed for support?
Who will be interested in the outcomes?



How do you manage the stakeholders expectations? Think about reporting and communication - help each to appreciate the value of the project throughout

Engage all of the stakeholders



What do you need to know?

- What resources are you lacking to complete the project?
- How much responsibility does each supervisor have?
- What's their level of interest?
- How are you going to engage with each supervisor?
- Do you need to manage them?
- Are there potential conflicts between you and a supervisor? How do you resolve this?
- Are other collaborators involved and have you been involved in establishing guidelines with them eg author on a paper?

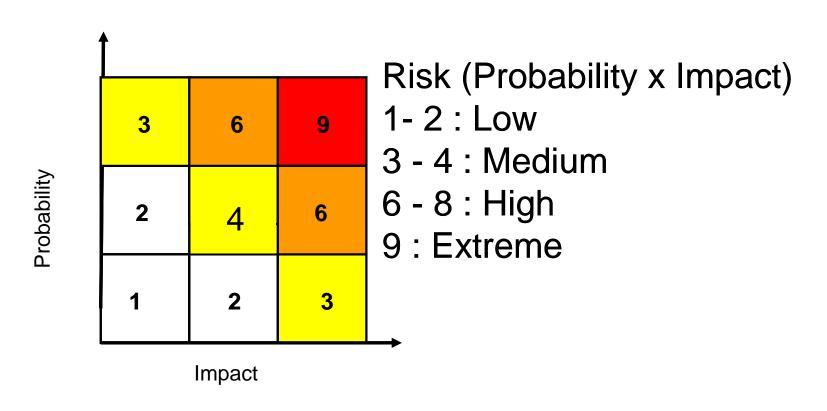
The reality of research

- ·Things go wrong!
- The direction of the research may change based on the results
- ·New data emerges from the research field



The project plan must anticipate all of this and more...

Use Risk analysis to structure your discussions



Minimise, eliminate or have a contingency

If you are struggling to develop a plan or behind schedule?

This can suggest:

- project objectives are unclear
- You are unconvinced about the project
- The project is too large
- Unsure of responsibilities
- · Need additional support or experience
- Respond to delays early
- Consider implications if you adapt the plan
- Can you increase resources and/or engage others



How will you monitor progress?

- Your Workplace supervisor:
 - Should decide on an appropriate communication/monitoring system (type and frequency)
 - steering group meetings
 - regular project team meetings
 - weekly/monthly updates (paper or email)
- Your Academic Supervisor
 - Take responsibility for deadlines on University system
 - Adapt planning timelines from PhD and fix meetings
- Constant communication and transparencyparticularly when things go wrong

Summary: research project planning

- Project planning
 - should be a tool not a straightjacket
 - should be dynamic with regular, fixed reviews of progress
 - It can help research team communication
 - It can check on common understanding
 - Between workplace supervisor and academic supervisor but also with line manager, team, collaborators, funders)
 - It helps to ensure research dissemination
 - · Papers, presentations, Follow up funding

How do the roles of the two supervisors compare?

Workplace Supervisor

- Detailed knowledge of the project background
- Understanding of the constraints on the student
- Usually close by to give day—to-day advice

Academic Supervisor

- Understands the academic process for Doctoral degrees
- Has experience of supervising PhDs/MDs
- Understands the constraints
- Can find the University person to provide guidelines for the degree

How do the supervisors interact?

- Usually by skype or teleconference.
- One meeting each year is important/preferable
- Who sets the dates for meeting?
- What happens if project not going well-who identifies this? Who do the supervisors get help from?
- Academic supervisor should take lead on reading drafts of thesis.

What to do if you need advice?

- Your Academic supervisor
 - Contact administrators re guidelines
 - Liaise with Programme Directors about project content
 - Contact MAHSE about deferrals
- Your Workplace supervisor
 - liaise with line manager about time constraints
 - Contact NSHCS on HSST
 - Get advice on funding from the Commissioners

The Examination Process-in brief

- Decide now when thesis should be submitted
- Determine the appropriate format now and perhaps modify with time
- Six months to go suggest external examiner by discussing at supervisory meeting
- Which of your supervisors will read which parts of the thesis?
- Ensure care is taken to meet the University submission requirements
- Get advice from academic supervisors on the examination process at viva
- Celebrate!!!!!

What skills will Collegiality you gain? Subject knowledge Team working Research methods: theoretical knowledge People management Research methods: practical application Supervision Information seeking Mentoring Information literacy and management Influence and leadership Languages Collaboration Academic literacy and numeracy Equality and diversity Working with others Knowledge base (A1) Analysing Communication methods Synthesising Communication media Critical thinking Publication Evaluating Problem solving Teaching Inquiring mind Engagement, Knowledge and Public engagement Intellectual insight influence and impact intellectual abilities Enterprise Innovation The knowledge and skills to The knowledge, intellectual Policy Argument construction work with others and ensure abilities and techniques Society and culture Intellectual risk the wider impact of research to do research Global citizenship Domain A Domain D Health and safety Domain C Domain B Professional conduct Enthusiasm Ethics, principles and Perseverance sustainability Research governance Personal Legal requirements Integrity and organisation effectiveness Self-confidence IPR and copyright The knowledge of the The personal qualities and Self-reflection Respect and confidentiality standards, requirements approach to be an effective and professionalism to do researcher Responsibility Attribution and co-authorship research Appropriate practice Preparation and prioritisation Research strategy Commitment to research Project planning and delivery Time management Finance, funding Professional and Risk management Responsiveness to change career development and resources Work-life balance Income and funding generation

Financial management

Financial management

Infrastructure and resources

Responsiveness to opportunities

Networking

Reputation and esteem

Resources

Networking

Reputation and esteem

WWW.Vitae. ac. uk/RDF conditions Income and funding generation

www.vitae.ac.uk/rdf

A project isn't successful until it's finished!







What one thing will you take away from today's session?