The future is coming...
Psychiatric training is changing...
Change

- Why?
- What?
- How?
This is happening now

- Neural networks
- Cortical dynamics
- Genomic variation
- Deep-brain stimulation
- Transcranial magnetic stimulation

November 2016
What does it mean?

Better therapy for people with mental illness

Neural networks

Cortical dynamics

Genomic variation

Deep-brain stimulation

Transcranial magnetic stimulation
What have the Romans ever done for us...?

- ‘Curriculum’:
  - The course of a race
What has Neuroscience ever done for us...?

What has neuroscience ever done for psychiatry?

19 July 2016

People

Professor Jeremy Hall
Director and Research Theme Lead, Neurosciences & Mental Health Research Institute

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About Advertise

The Gatsby/Wellcome Neuroscience Project
‘The research of 2015 suggests that the clinician of 2025 and certainly the clinician of 2035 will need to know about cortical dynamics, neural networks, and genomic variation. Those entering the field today will need to know how to think about the brain and how to critique brain science.’

Insel (2015)
The likely future...

- More neuroscientific evidence for changes in brain organisation caused by maternal deprivation, childhood abuse or other classical psychoanalytic traumas
The likely future...

Psychiatrists’ role

- Future psychiatrists need to be ‘neuroscientifically literate’ and prepared to critically evaluate
- To integrate neuroscience evidence with psycho-social explanations
- Bridge the disconnect between latest research advances and everyday clinical practice

Translational medicine
Why is this necessary?

- Psychiatry evolved as the medicine of the mind, but this requires that it is fully engaged with the science of the brain

- The only way in which a truly holistic explanation of mental health problems can be proposed

(Roiser, 2015)
Neuroscience’s impact is broad

- Paradigms
  - Balance of ‘bio-’, ‘psycho-’ and ‘social’ factors across the lifespan leads to normal development and also to disorder

- Treatment
  - Enhancing ‘personalised medicine’: providing the right treatment to the right person
  - Biological model of mental illness increases acceptance of treatment

- Reputations
  - Positive effect on recruitment
The Gatsby/Wellcome Neuroscience Project

A RCPsych 2-year initiative to introduce a modern neuroscience perspective into psychiatrists’ clinical work

Generously supported by The Gatsby Foundation and The Wellcome Trust
The Gatsby/Wellcome Project

- Full review of Core Curriculum
- Incorporate latest neuroscience knowledge
- Better prepare trainees for the advances to be made during their working lives

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Project structure

- Core Curriculum review
- Led by a 15-strong Commission of international experts
- Incorporate latest neuroscience knowledge
- Extensive consultation in progress
- First Commission meeting 23rd March 2017
- Neuroscience Conference 24th March 2017, invited audience
Project Commission: Co-chairs

- Dr Wendy Burn (Immediate past Dean, RCPsych)
- Prof Mike Travis (University of Pittsburgh; Co-Director of the National Neuroscience Curriculum Initiative [NNCI], USA)
National Neuroscience Curriculum Initiative (USA)

- Online, open-access learning resource
- Workshops for Trainers
- Innovative teaching methods
- Making Neuroscience accessible and relevant
Project Commission: Members

- Professor Karl Deisseroth, Stanford
- Professor Jeffrey Lieberman, Columbia
- Professor David Ross, Yale
- Dr Andrew Brittlebank, Curriculum Advisor, RCPsych
- Professor Ed Bullmore, University of Cambridge
- Professor Jacky Hayden, Dean, PG Med Studs, HENW
- Professor Eileen Joyce, Chair, Neuropsychiatry Faculty, RCPsych
- Professor Anne Lingford-Hughes Chair, Academic Faculty, RCPsych
- Dr Mary-Ellen Lynall, Academic Clinical Fellow, Cambridge
- Professor Sir Simon Wessely, President, RCPsych
- Dr Sarah Caddick, The Gatsby Foundation
- ..........................., Wellcome Trust
- Professor Ian Curran, GMC

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Implementation Group

- Experts on training or neuroscience
- To examine and comment on the proposed changes to Core Curriculum
- Meeting quarterly
- Focus on delivery
Stakeholder consultation and engagement

- Faculty and Division conferences/meetings
- Presentations to Trusts, PTC, and University Psych Socs
- Social media

- Information sharing
- Opinion capture and analysis
- Summarise and feed forward

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Outreach programme: Event participation

- RCPsych Postgraduate Medical Education Conference, Bristol (20)
- RCPsych Faculty of Intellectual Disability, Cardiff (120)
- RCPsych Faculties of Child & Adolescent Mental Health and General Adult Psychiatry, Birmingham (32)
- RCPsych Faculty of Neuropsychiatry, London (80)
- Psychiatry Trainees’ Committee, Cardiff (40)
- Sussex Partnership Trust, Crawley (20)
- Oxford Health Trust, Faringdon (45)
- Oxford Health Trust, Faringdon (45)

20 stakeholders engaged
Outreach programme: Event participation

- RCPsych Postgraduate Medical Education Conference, Bristol: 20
- Psychiatry Trainees’ Committee, Cardiff: 40
- RCPsych West Midlands Division, Solihull: 32
- RCPsych Faculty of Intellectual Disability, Cardiff: 120
- RCPsych Faculties of Child & Adolescent Mental Health and General Adult Psychiatry, Birmingham: 80
- RCPsych East Midlands Division, Derby: 120
- RCPsych Faculty of Neuropsychiatry, London: 80
- Oxford Health Trust, Faringdon: 45
- RCPsych Southwestern Division, Exeter: 40
- Sussex Partnership Trust, Crawley: 20
- RCPsych Eastern Division, Cambridge: 20

Stakeholders engaged: 20
Stakeholder consultation and engagement

- Feedback has been overwhelmingly positive
- There are some concerns
Concerns

- Will we stop training Psychiatrists in the psychological and social aspects of patient care?
- Who will teach Neuroscience?
- How will Trainers keep up?
MRCPsych examination

- GMC will require revised assessment blueprint for new Curriculum

- Changes to Curriculum will need to be reflected in MRCPsych exam

- We are working closely with the Chief Examiner and the exams committee

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TrOn is likely to require some revision and added material

- Funds will be available for development and pilot of new learning materials
Summary

- Reshaping psychiatry training to incorporate advances of basic and clinical neuroscience
- Equip trainees for the advances that will be made over their working lives
- Psychiatrists of the future will be better prepared to develop and deliver innovative biomedical approaches
- Improved patient care
More information

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