Dementia Research Landscape
Trinity College Dublin

Brian Lawlor
lawlorba@tcd.ie
Prevention

TILDA & NEIL, TCIN

Disease modification

MISA & Memory Clinics, TCIN

Earlier detection & diagnosis

Memory Clinics, TCIN

Better disease management

Memory Clinics, DSIDC, & Local Community Test Beds

Research Solutions for Dementia
Research in dementia @ TCD occurs through......

- Institutes
- Programmes
- Individual researchers
Institutes

• Trinity College Institute for Neuroscience (TCIN)-carries out basic science research and studies in non-clinical populations
• Mercer’s Institute for Research on Ageing (MISA) at St. James’s Hospital-carries out studies in clinical populations
Programmes

• Trinity EngAge-overarching ‘virtual’ centre for ageing
• TILDA & IDS TILDA-population based studies in ageing that can inform dementia
• NEIL-developing scalable interventions to prevent dementia
• NILVAD-Nilvadipine in Alzheimer’s disease
• BiomarkAPD-optimisation & standardisation of CSF biomarkers in AD & PD
• DemPath- developing an integrated care pathway for dementia in an acute hospital
TILDA

- Population based epidemiological research in cognitive disorders
- Lead PI Rose Anne Kenny
- Closely aligned with NICOLA
- Includes biomarkers and neuroimaging
- Allows for the study of risk factors for dementia
Intellectual Disability & dementia

- Down syndrome & dementia - Mary McCarron
- IDS-TILDA - population based study of ID and ageing
NEIL @ TCD

• Scalable ways to delay and prevent dementia
• Interventions and knowledge generation around risk factors for dementia e.g. loneliness, stress, deafness – Brian Lawlor & Sabina Brennan
• Studies on memory training, attention, cognitive reserve –Ian Robertson
• Memory Research Unit in TCD-cognitive studies in normal ageing with ‘bolt-on’ intervention trials-satellite MRU in Mallow
NILVAD

• Clinical trial and network across Europe
• Phase III investigator driven clinical trial with multiple sub-studies
• Biomarker studies, frailty, imaging
• Blood samples, CSF samples for collaborative research

www.nilvad.eu
BiomarkAPD & IN-BIND

• Standardisation & optimisation of use of CSF Biomarkers in ND
• Network for clinical & basic researchers involved in biomarkers in ND research
• All Ireland initiative

www.tcd.ie/research/inbind/
Basic Research labs

- Michael Rowan - synaptic plasticity
- Marina Lynch - neuroinflammation
- Colm Cunningham - neuroinflammation and neurodegeneration
- Gavin Davey - cellular mechanism underpinning neurodegeneration
- Richard Carson - brain stimulation
- Arun Bodke - neuroimaging
- Redmond O’Connell - brain electrophysiology
Social research

• Living with dementia-post graduate research, education, information dissemination-Suzanne Cahill

• Social Policy and Ageing Research Centre (SPARC)- Virpi Timonen

• Trinity Haus-build environment & dementia-Mark Dyer

• Dementia Services & Information Development Centre-Suzanne Cahill
Clinical research

• Mercer’s Institute at St. James’s Hospital: studies on mild cognitive impairment, neurocardiovascular instability and dementia, frailty & dementia, caregiver burden & dementia–Rose Anne Kenny & Brian Lawlor

• AMNCH: studies on T2 DM and dementia; driving & dementia; neuroimaging–Sean Kennelly, Des O’ Neill, Arun Bokde
Technology

• Technology Research for Independent Living (TRIL)-remote assessment tool for dementia assessment (ECHO)-Brian Lawlor
• Centre for Bioengineering-biomarkers & neural engineering-Richard Reilly
Summary

• Multiple dementia assets from bench to bedside
• Multiple opportunities to innovate and collaborate
• For more information on contacts or collaborations, get in touch

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