WHY A RESEARCH DAY FOR CHeBA?

- CHeBA is a new research centre
  - diversity
  - geographical spread
  - thematic growth
Vision

• Through world-class research we are the leaders in the study of ageing and the epidemiology, neurobiology and clinical care of age-related brain diseases

Mission

• Our mission is to enhance the evidence base in relation to prevention, early detection, and treatment of age-related brain diseases, and improve the health care of individuals affected by these diseases.
WHY A RESEARCH DAY FOR CHeBA?

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• Ageing and Dementia provide great research opportunities
The Opportunity

Ageing

• In 2000, there were 600 million people aged 60 and over; there will be 1.2 billion by 2025 and 2 billion by 2050.
• In the developed world, the very old (age 80+) is the fastest growing population group.

Dementia

• >35 million sufferers in the world
• An exponential growth
• In developed countries, 4th leading cause of disability
WHY A RESEARCH DAY FOR CHeBA?

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• Ageing and Dementia provide great research opportunities
• Modern research is collaborative
• Neuroscience research is increasingly technology driven
LONGITUDINAL STUDY GROUPS

SCS

OATS

PATH

SMAS

SSS

DEMENTIA

AD

VaD

YEARS

20 40 60 80 100
Process / technology based Research Groups

- Neuroimaging
- Neuropsychology
- Neuro-genetics and genomics
- Neuro-proteomics
- Neuro-inflammation
- Neuro-metabolomics
- Stem Cells & Molecular Biology

- Mental illness
  - Depression, apathy, anxiety, BPSD
- Intervention studies
  - Brain stimulation
  - Drug trials
  - Cognitive training
  - iCBT and eHEALTHY lifestyle
- Dementia – better care
- Health economics

CHeBA

UNSW Australia
DCRC

- The care of people with dementia in General Practice
- Behavioural and Psychological Symptoms of Dementia
- Nursing care of people with Dementia
- Transitions in care of people with Dementia
- Physical co-morbidities of Dementia
- Technology and Design
- Special Groups with Dementia
  - INSPIRED Study
- Intellectual Disability and Dementia
  - SAGE –ID
- Community Care for people with Dementia
COLLABORATORS

- SES LHD
- St Vincent’s Hospital
- Balance and Falls Group, NeuRA
- BMSF & Analytical Centre
- Faculty of Science
  - Psychology
  - BABS
- Sydney Brain Bank
- Black Dog Institute
- Garvan Institute
- Psychiatry, University of Adelaide
- Curtin University, Perth
- AIBL & CSIRO
- Austin Hospital
- NARI
- QIMR
- Hunter Medical Res Institute
- UWS
- Mac Uni
INTERNATIONAL COLLABORATIONS

• NeuroCHARGE
• ENIGMA
• COSMIC: COhort Studies of Memory in International Consortium
• ICC-Dementia: International Consortium of Centenarian Studies – Dementia
• BRAIN-INFLAME
• PROMOTE
• Sydney Memory & Ageing Study (MAS)
• PATH Through Life Study
• Mayo Clinic study
• New York Studies
  – Washington Heights (WHICAP)
  – Einstein (EAS)
• Pennsylvania Study (MoVIES)
• Framingham Study
• Canadian Study (CSHA)
• UK Study (MRC-CFAS)
• French Study (ESPRIT)
• Spanish Study (ZARADEMP)
• Rhineland Study
• Italian Study

• Korean Study (KLOSCAD)
• Singapore Study (SLAS)
• Chinese Study (CLAS)
• Hong Kong Study (HK-MAPS)
• Japanese Study (Osaki-Tajiri)
• Sydney Centenarian Study
• Georgia Centenarian Study
• New England Centenarian Study
• Ashkenazi Jewish Centenarian Study (NY)
• 90+ Study
• Tokyo Centenarian Study
• 5-COOP consortium
• Swedish Centenarian Study
• Gothenburg Ageing Study
• Danish Longitudinal Study
• Spanish Centenarians Study
• CFAS-MRC
CHeBA and future research agenda

• Empowering groups with resources
  – Accommodation – bringing the researchers together
  – Better support – statistics, bioinformatics
  – Facilitate collaborations

• Establishing mid-career researchers

• Developing new technologies, e.g. MRI, PET, brain stimulation, NextGen sequencing

• Recruit new talent

• Continually improving scientific standards and productivity

• Embrace teaching
TEACHING AND TRAINING

- Higher degree research students
- Post-doctoral fellows
- Masters in Ageing Research program?
- Short courses for professionals?
- Short courses for public?
Where do we want to publish?

**BASIC SCIENCE**
- NATURE
- SCIENCE
- PNAS
- NEURON
- CELL
- JOURNAL OF NEUROSCIENCE

**CLINICAL**
- LANCET
- NEJM
- JAMA
- BMJ
THE FUTURE

TRANSLATION

INFLUENCING MEDICAL PRACTICE

INFLUENCING POLICY

MAKING A REAL DIFFERENCE TO THE LIVES OF PEOPLE
How will we judge today’s success?

- New research ideas
- Solutions to existing research dilemmas/obstacles
- New collaborations
- Ideas for papers with existing data
- Ideas for grant applications