#### **Funding & Incentives panel**

**Moderator: Dr Steven Hyman** 

Harvard University Distinguished Professor and Director, Stanley Center at the Broad Institute of Harvard and MIT

### **Professor Bart de Strooper**

Director of the UK-Dementia Research Institute, Professor at University College London, UK

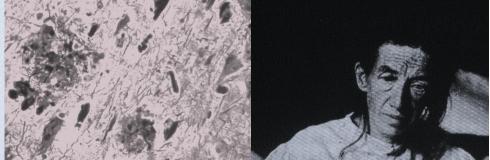
And Professor at University of Leuven and VIB, Belgium

#### WHY DIDN'T WE MAKE MORE PROGRESS?

#### Breakthrough Observation in 1906



**Alois Alzheimer** 1864-1915



Über eine eigenartige Erkrankung der Hirnrinde Allgemeine Zeitschrift für Psychiatrie und Psychisch-gerichtliche Medizin. 1907 Jan;64:146-8









#### Scientific research in AD pr val: 200 APOE 4 (1993) mouse chimera model (2017)Identification of $\beta$ -amyloid (1984) 2018: Tau (1986) **Good Results** with 1970 1990 1906 Aducanumab Ban2401 amyloi im ging 2004 Acetylcholine u imaging(2017) hypothesis 1<sup>e</sup> / D mous oma kers Trem2 1987 mo el (199 Microglia - 1<sup>e</sup> c<mark>li</mark>nical trial Presen in (995)

- APP

neuroinflammation

Tau cryo-EM structures (2017)

Gammi-secretas : (19 8)

BACE1 (1995)

### Scientific Gap in dementia research

Number of publications



#### **Number of Phase 3 trials since 2000:**

#### Number of approved drugs since 2000:



"...I can think of no other condition where innovation, especially breakthrough innovation, is so badly needed...[Dementia] is not just a public health priority. It is a public policy priority...

When the private sector... does not want to invest in R&D [research and development] we need to look at why... And when [the] market fails, we require strong leadership...

You are stepping in to take the slack and making sure people affected by such devastating disease can have the hope that they need..."

Margaret Chan
Director General, WHO
2007-2017











### **Hilary Evans**

Chief Executive Officer, Alzheimer's Research UK

# Alzheimer's Research UK

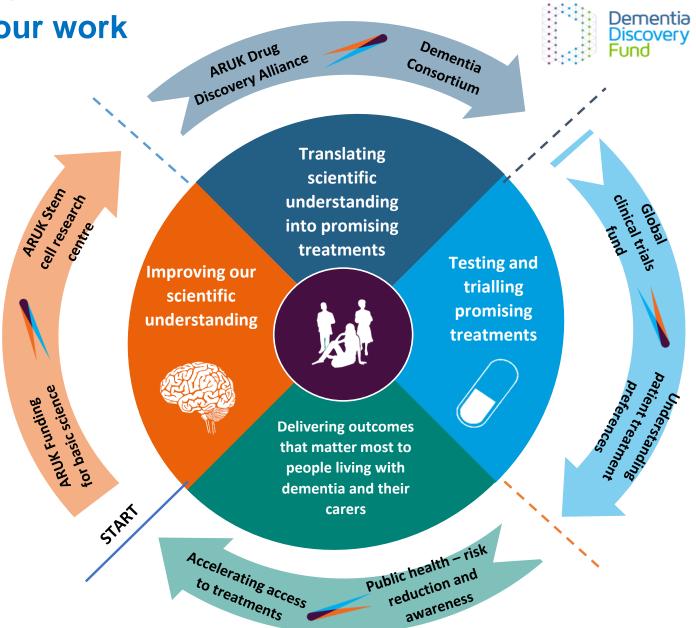
Make breakthroughs possible People with dementia are at the centre of our work



#### BRAINS FOR DEMENTIA RESEARCH

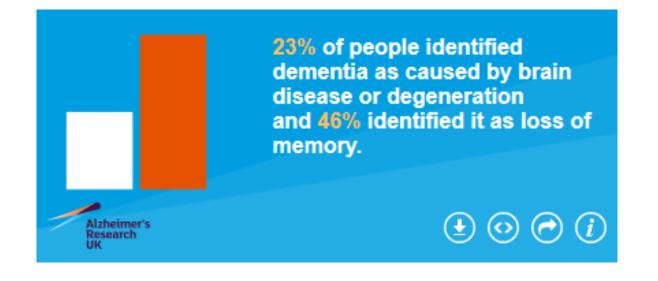
Increasing knowledge - Finding a cure

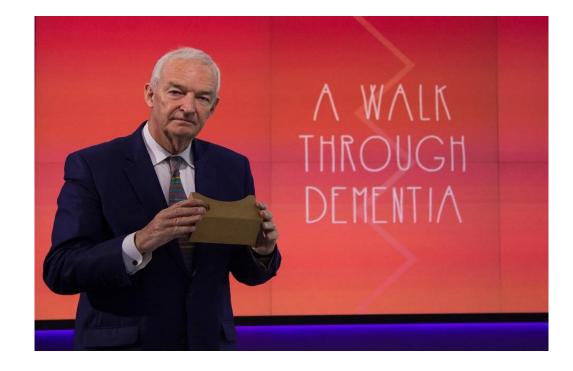
A partnership between Alzheimer's Research UK and Alzheimer's Society In association with the Medical Research Council





#### **Innovative Engagement**







#### **Dr Laurence Barker**

Chief Business Officer, Dementia Discovery Fund



### Funding and Incentives Panel Discussion

WDC 5<sup>th</sup> Anniversary Summit – Laurence Barker, CBO, Dementia Discovery Fund



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#### DDF

- Mandate from the WDC: To develop meaningful new treatments for dementia
- Key components of the funding challenge include novelty of mechanism, lack of 'traditional' capital, early stage nature of approaches
- DDF's approach to addressing the challenge:
  - o To increase the number and diversify the types of therapeutic approaches being pursued to treat dementia
  - Use an innovative, focussed venture capital model
  - Invest from an early stage onwards
- Mission: To invest in novel science to create meaningful new treatments for Alzheimer's Disease and other forms of dementia, thereby generate returns for investors
- The first time charity, government, pharma and significant public/private investors have teamed up with a venture capital firm on this scale and with this level of collaboration
- Managed by SV Health Managers, who bring a proven 20-year track record of venture investing
- DDF completed its fundraising at an oversubscribed £250m (~\$350m) in March 2018





































#### Microglial biology & inflammation:



Neuroinflammation **Project** 



Oligodendrocyte **Project** 



Synaptic physiology & function:







Compelling investment opportunities beyond the prioritised areas:









**DNA Damage Response Project** 

#### Trafficking and membrane biology:

Datonus (Membrane Contact Sites **Project)** 

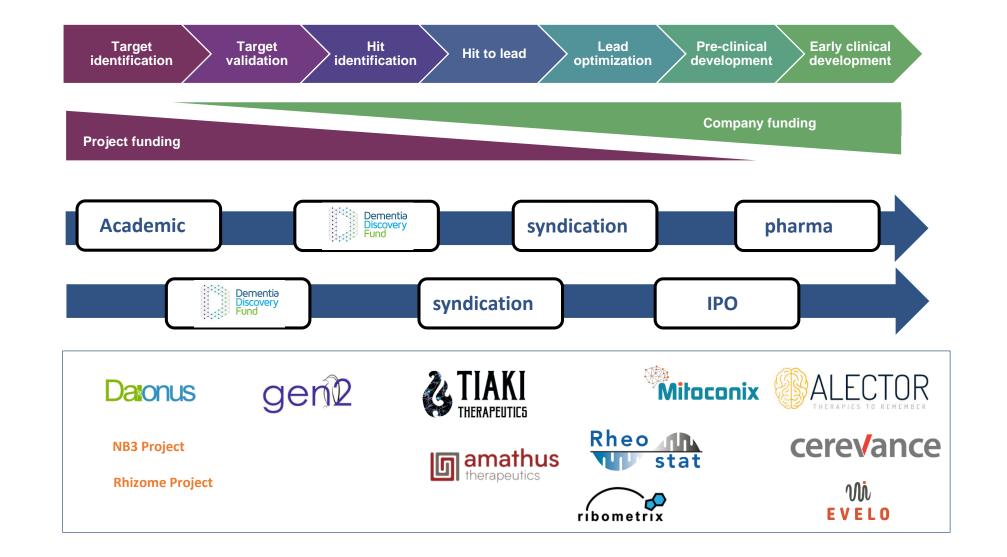




**Mitochondrial Dynamics:** 



- DDF will invest based on compelling novel science and unique insights for dementia therapeutics, rather than well-explored approaches such as amyloid removal
- Seek to leverage expertise and insights from neighboring fields such as immunology and oncology into the dementia field
- Collaborate with key groups to better enable the development of novel therapeutics, including the Dementia Research Institute, the Diagnostics Accelerator and others

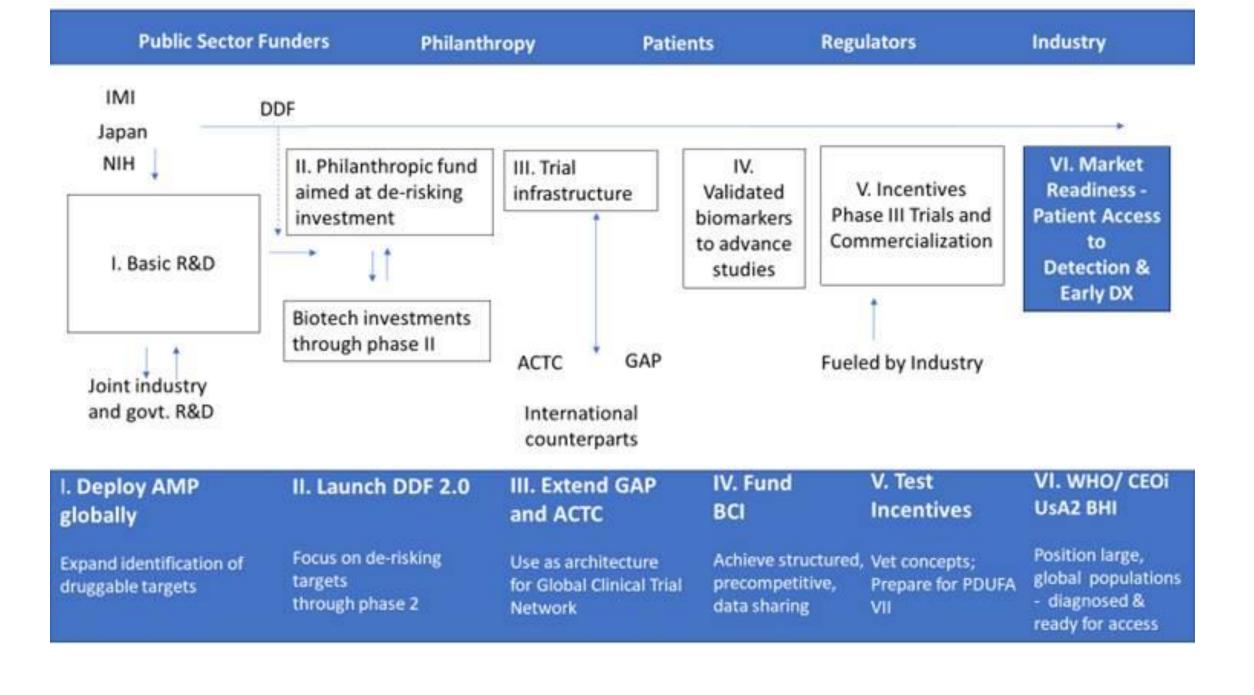


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#### **Dr Paul Stoffels**

Chief Scientific Officer, Johnson & Johnson



### Questions?

### Lunch

### Are we on Track?

### Dr Richard J. Hodes

Director, National Institute on Aging