

The challenges of leading projects with diverse disciplines and stakeholder interests

Roxana Carare MD, PhD
University of Southampton, UK



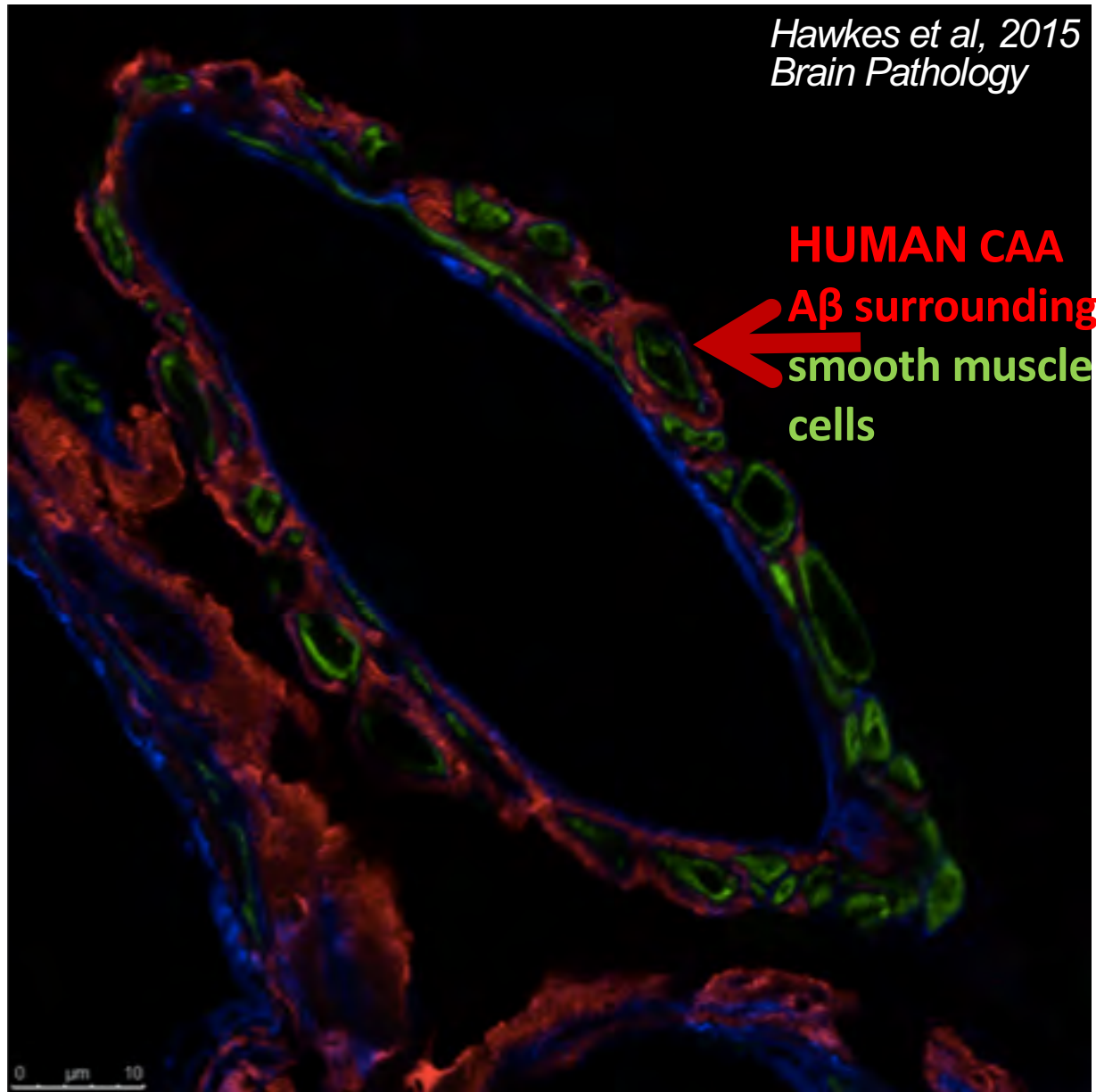
Dementia: LEADING cause of death for women in the UK

The Brain in Alzheimer's disease is shrunken due to loss of nerve cells.

Compare this section of brain with the Normal Brain (right)

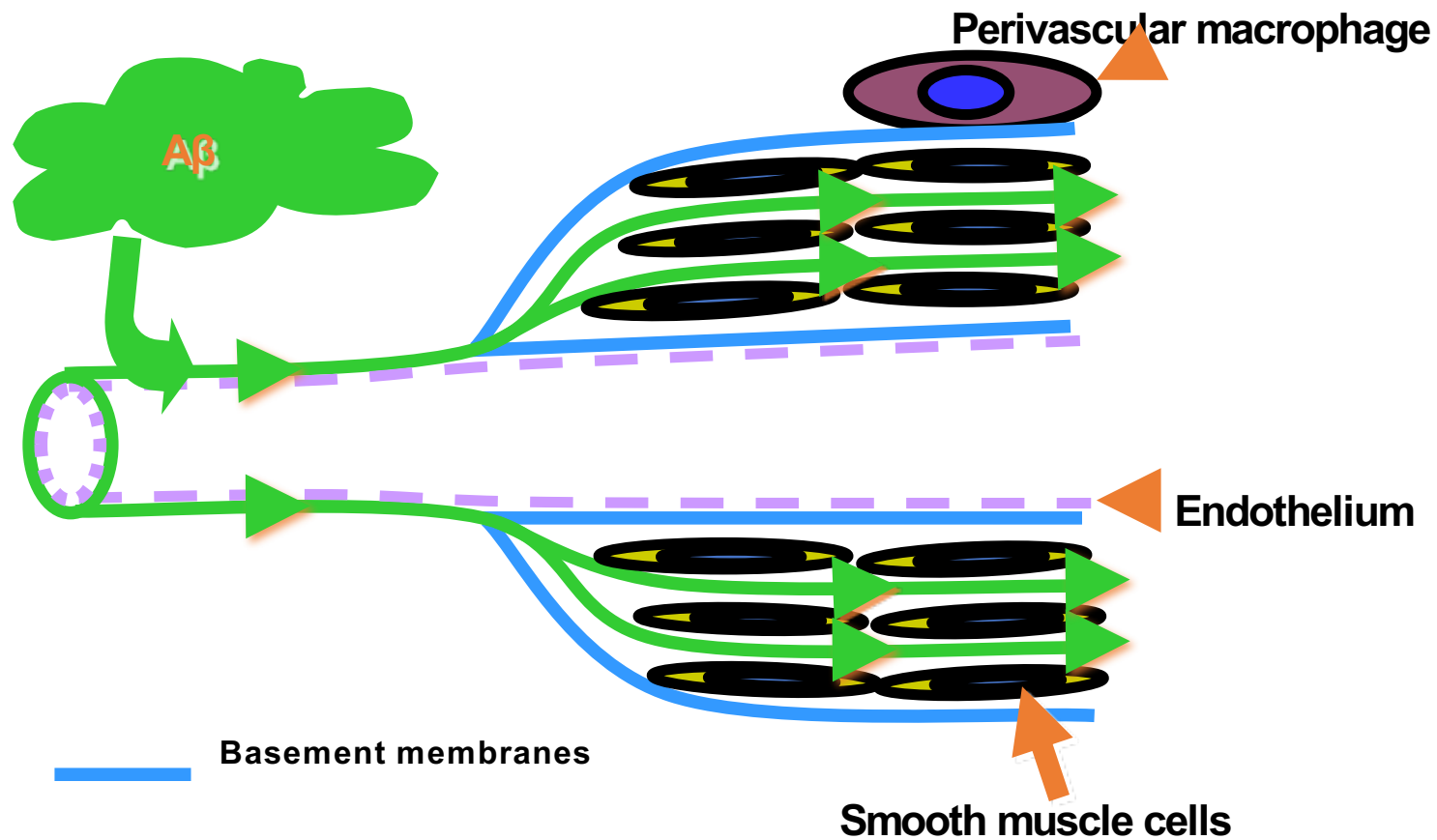
A section of Normal Brain

Hawkes et al, 2015
Brain Pathology



Cerebral Amyloid Angiopathy: in 75-95% of Alzheimer's disease cases

CAA: failure of elimination of A β along the walls of blood vessels



Weller RO et al Brain Pathology 2008

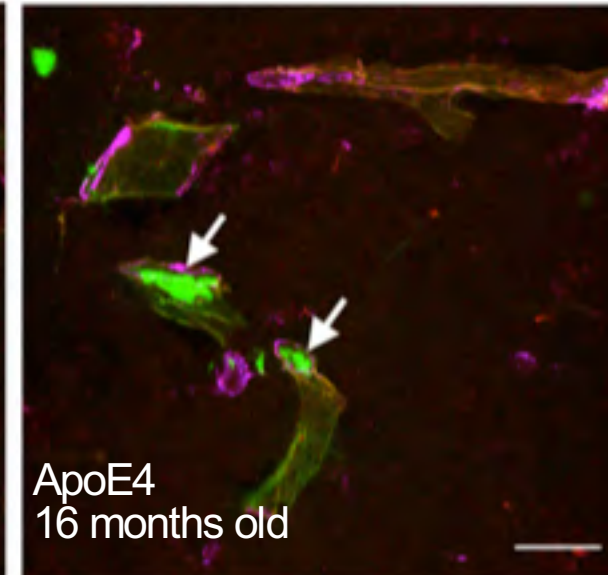
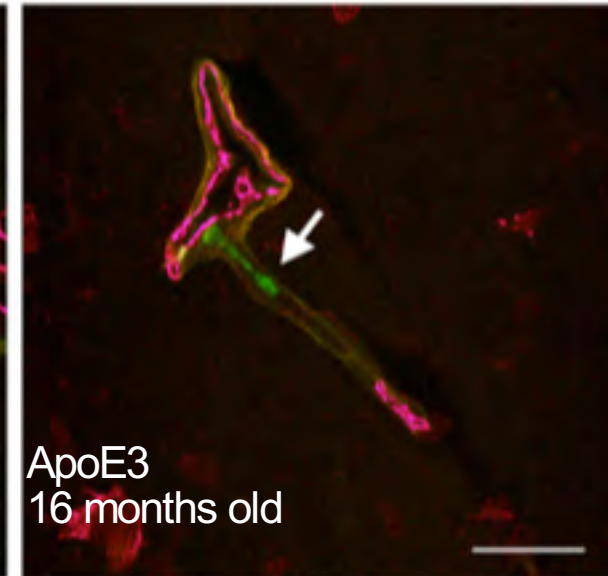
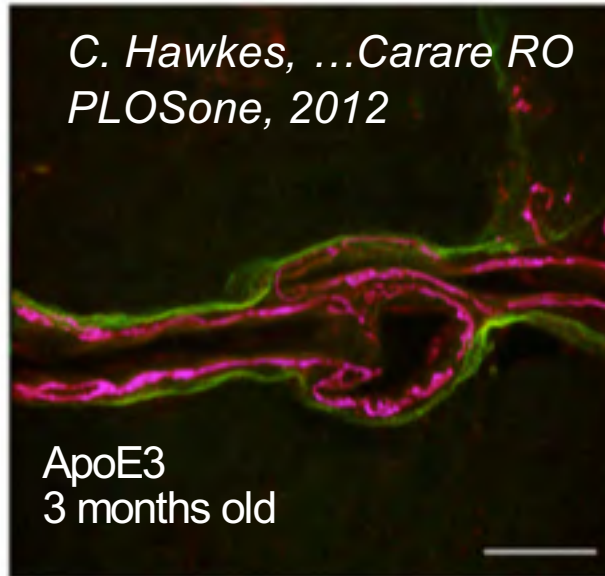
APOE4: risk factor for AD

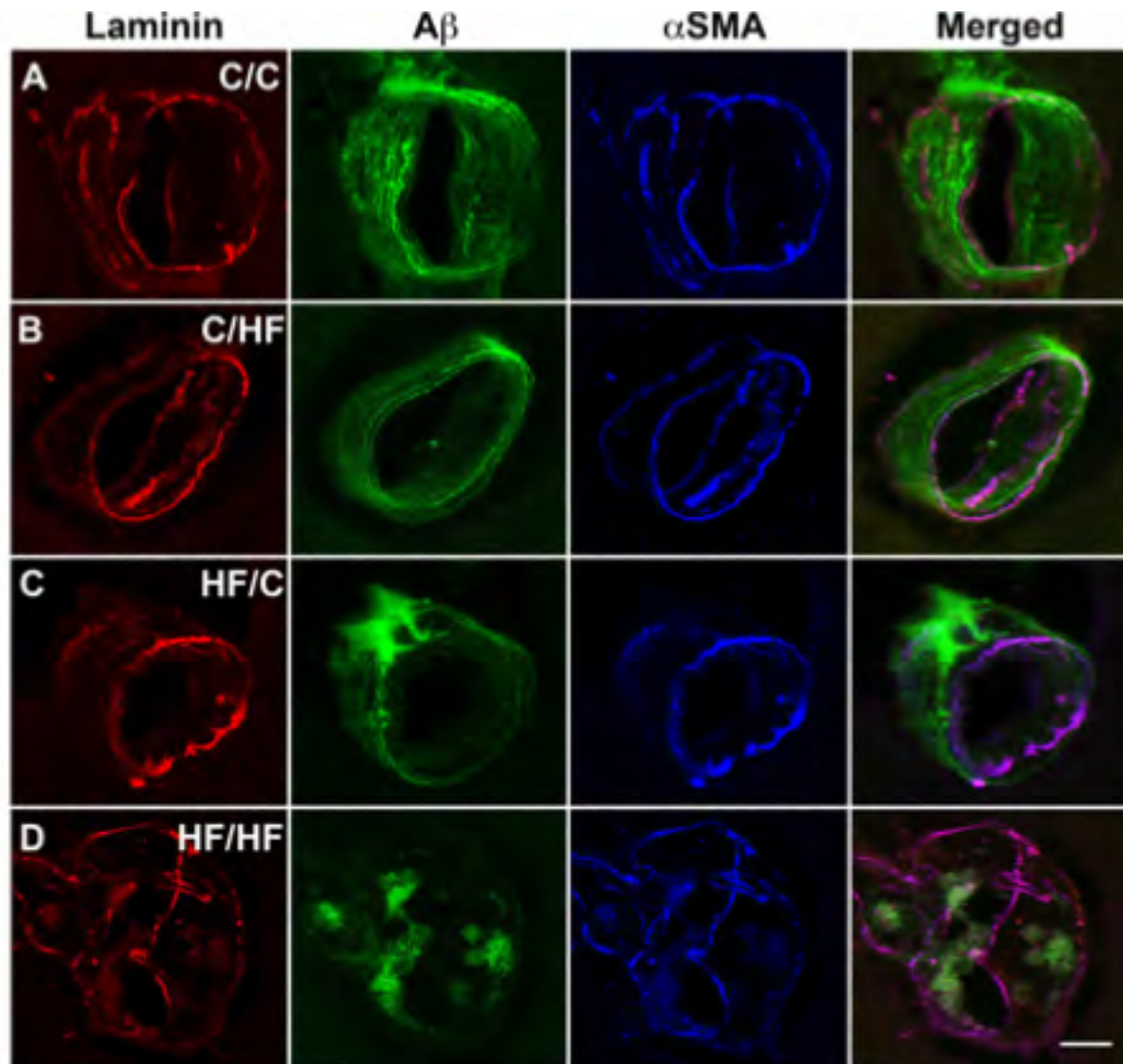
Does elimination of A β along basement membranes fail in the presence of APOE4?

Hypothesis: Basement membranes change with APOE genotype, slowing down the clearance of A β

Hohman TJ, Dumitrescu L, Barnes LL, Thambisetty M, Beecham G, Kunkle B, Gifford KA, Bush WS, Chibnik LB, Mukherjee S, De Jager PL, Kukull W, Crane PK, Resnick SM, Keene CD, Montine TJ, Schellenberg GD, Haines JL, Zetterberg H, Blennow K, Larson EB, Johnson SC, Albert M, Bennett DA, Schneider JA, Jefferson AL, Alzheimer's Disease Genetics Consortium, Alzheimer's Disease Neuroimaging Initiative. Sex-specific association of Apolipoprotein E with cerebrospinal fluid levels of tau. *JAMA Neurol.* 2018 May 7

*C. Hawkes, ...Carare RO
PLOSone, 2012*



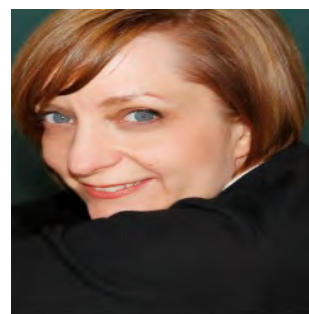
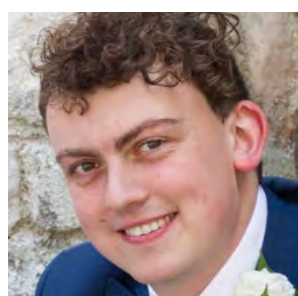


Hawkes CA, Gentleman S, Nicoll JA, Carare RO, J Path 2014

Colleagues, Students & Patients= success



Faculty of Medicine, University of Southampton Equality, Diversity and Inclusivity Committee



Challenges and opportunities

1. Appraisal
2. Mentoring
3. Wellbeing for staff

**Going for.....ATHENA SWAN GOLD AWARD
EFFICIENT TREATMENT FOR DEMENTIA**

Roy Weller

**James Mill
Hugh Perry
Neil Smyth**

**Cheryl Hawkes
Maureen Gatherer**

**Matthew Sharp
Alan Morris**

**Nazira Albargothy
David Johnston**

**Anton Page
Antigoni Manousopoulou
Jacqui Nimmo**



**Raj Kalaria, Johannes Attems-University of Newcastle
Steve Gentleman, Imperial College London
David Werring, UCL
Masafumi Ihara, Osaka Japan**



Biogen



United Neuroscience

