The challenges of leading projects with diverse disciplines and stakeholder interests

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

CAA: failure of elimination of Aβ along the walls of blood vessels

Weller RO et al Brain Pathology 2008
**APOE4: risk factor for AD**

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

**Hypothesis:** Basement membranes change with APOE genotype, slowing down the clearance of Aβ

ApoE3
3 months old

ApoE4
3 months old

ApoE3
16 months old

ApoE4
16 months old

C. Hawkes, ...Carare RO
PLOSone, 2012
<table>
<thead>
<tr>
<th>Laminin</th>
<th>Aβ</th>
<th>cSMA</th>
<th>Merged</th>
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<tr>
<td>[A] C/C</td>
<td>[Aβ]</td>
<td>[cSMA]</td>
<td>[Merged]</td>
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<td>[B] C/ HF</td>
<td>[Aβ]</td>
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<td>[C] HF/ C</td>
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<td>[D] HF/ HF</td>
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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