# Race Against Dementia Fellowship

## APPLICATION FORM

<table>
<thead>
<tr>
<th>Reference number</th>
<th>ARUK-RADF2018B-001</th>
</tr>
</thead>
<tbody>
<tr>
<td>Applicant</td>
<td>Prof Research Team</td>
</tr>
<tr>
<td>Organisation</td>
<td>Alzheimer's Research UK</td>
</tr>
<tr>
<td>Grant Title</td>
<td>Race Against Dementia Fellowship Proposal</td>
</tr>
<tr>
<td>Grant Duration</td>
<td>60</td>
</tr>
<tr>
<td>Grant Start Date</td>
<td>01/09/2019</td>
</tr>
<tr>
<td>Grant End Date</td>
<td>31/08/2024</td>
</tr>
<tr>
<td>Total Amount Requested</td>
<td>.00</td>
</tr>
<tr>
<td>Participants</td>
<td></td>
</tr>
<tr>
<td>1.</td>
<td>Eligibility Check</td>
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<td>Project Summary</td>
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<td>8.</td>
<td>Supervisors’ CVs</td>
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<td>9.</td>
<td>Collaborators</td>
</tr>
<tr>
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<td>Attachments</td>
</tr>
<tr>
<td>11.</td>
<td>Disease classification</td>
</tr>
<tr>
<td>12.</td>
<td>Research area</td>
</tr>
<tr>
<td>13.</td>
<td>Lead applicant statement</td>
</tr>
</tbody>
</table>
1. Eligibility Check

To apply for this grant, prospective Fellows must fulfil all eligibility requirements. Please read and enter a response to the following eligibility questions. Placing a tick next to the question means 'yes', leaving the box blank means 'no':

- Race Against Dementia Fellowships must be applied for by the prospective Fellow, not the Supervisor(s). Are you the prospective Fellow?
- The prospective Fellow and lead Supervisor must be based in a UK academic/research institution. However, the application can include co-Supervisors or Collaborators from outside the UK. Are you (or will you be) based in a UK academic/research institution?
- Race Against Dementia Fellowships are intended for outstanding early career scientists with no more than 3 years post-PhD experience at the time of applying. Can you confirm that you have no more than 3 years post-PhD experience?
- Fellows are required to have secured a lead Supervisor, a senior established investigator at the UK-based institution where the Fellowship is to be primarily held. The Supervisor will provide the facilities required for the research programme, will have oversight of the Fellow and their research programme, will contribute actively to the further training of the Fellow and be supportive of the Fellow's involvement in the diverse developmental opportunities provided by RAD. Have you secured a Supervisor that fulfils these requirements?
- The Fellow is expected to embrace all developmental opportunities offered by the scheme, including i) enrolment in a mentorship scheme, where they will be matched with innovative and ambitious academic scientists, and industry and/or commercial professionals and ii) participation in the annual RAD symposium, as well as the Alzheimer's Research UK annual Research Conference on at least three occasions. Do you accept these terms?
- The lead Supervisor must have a contract (fixed term or tenure) with the host institution covering the proposed duration of the Fellowship. If the lead Supervisor does not hold a tenure appointment, the application must include a co-Supervisor at the host institution that does. Does your lead- or co-Supervisor qualify?
- If the project requires Ethics approval (clinical work) and/or Home Office licences (animal work), the award is dependent upon the requisite approvals being granted. Do you accept this condition?
2. Project Summary

Title of project
Note that if your application is successful the title, alongside other basic award details (for example award reference, value, holder and institution, may be made publicly available on the websites of both Race Against Dementia and Alzheimer’s Research UK, as well as through other relevant sources. Therefore, please do not include any confidential or sensitive information within the title.

Race Against Dementia Fellowship Proposal

Lay Summary
Please provide a public-facing lay summary of your Fellowship proposal. Note that this summary may be used by representatives of Race Against Dementia and Alzheimer’s Research UK during the review process and, if your application is successful, it may also be used to describe your project to the public, prospective donors and other stakeholders. Please click on the help icon for advice on preparing a lay summary.

[Lay Summary - 200 words]

Help Text

When talking to the public, it is important to be able to explain your research in simple terms that get the key messages across. Your lay summary should therefore be as clear and concise as possible as too much detail may confuse people and result in your key messages being misunderstood.

Remember that the target audience for your lay summary will be an interested audience but are not specialists - do not make the assumption that they are knowledgeable about medicine, science or dementia research. You are advised to pitch your lay summary at the same level as an article in a newspaper and to ask a non-specialist to read through it to ensure it can be clearly understood.

Key advice for writing a lay summary:
• Remember that dementia isn’t a disease so refer to it as a condition.
• Keep in mind that those reading your lay summary may have loved ones with dementia, or have dementia themselves; as such think about how your words may agitate or upset people. For instance, avoid words such as ‘abnormal’ and instead talk about ‘differences’ and refer to people as ‘volunteers’ rather than ‘subjects’.
• When discussing the use of human tissue, such as a donated brain, acknowledge the donation.
• Keep sentences short and avoid using jargon and technical terms – if you have to use them provide a clear explanation. For instance:
  o Use ‘nerve cell’ instead of ‘neurone’
  o ‘Shrinkage’ instead of ‘atrophy’
  o ‘Problems with memory and thinking skills’ instead of ‘cognitive decline’.
• Avoid complicated English or uncommon words. For instance:
  o Use active not passive phrases; say ‘we will look at the build-up of amyloid in the brain’ rather than ‘the build-up of amyloid in the brain will be looked at’.

Institution
Alzheimer’s Research UK

Are your Institution details above correct?
Yes

Proposed start date
01/09/2019

Proposed duration
60
3. Proposal

Scientific Summary
Please provide a stand-alone scientific summary for scientific assessors, this alone will be used help external peer reviewers decide whether they have the appropriate expertise to review your application. You should include: limited background, your hypotheses, the techniques that will be used and the expected outcomes for dementia. Prospective reviewers will not be given full access to your application until they agree, therefore avoid including any citations or figure references here.

[Scientific Summary - 450 words]

Relevant Research Outputs
In order to support the scientific assessment of your proposal, please list up to five key outputs that provide a rationale for the proposed project. The outputs may or may not be your own work and a brief statement of their relevance should be included. Research outputs may include, but are not limited to:

- Peer reviewed publications
- Datasets, software and research materials
- Inventions, patents and commercial activity

[Relevant Research Outputs - 250 words]

Resubmission
Has this proposal previously been rejected by ARUK? You must answer yes to this question even if the proposal was submitted under a different grant scheme.

Yes

Resubmission
If this is a resubmission of a previously rejected ARUK application, you will be expected to have directly addressed the Grant Review Board's Feedback before resubmission. Please state the previous grant reference number and detail the changes you have made in response to the feedback received.

[Resubmission]

Help Text
We expect applicants to declare where a proposal has been previously rejected by ARUK. This prompts the Grant Review Board to check whether previous feedback has been addressed.

Background
Provide context for the application, referring to both the wider research field and any previous research you have conducted.

[Background - 550 words]
### Aims of the project
Please list the aims of the project, including any specific hypotheses to be tested.

[Aims of the project - 300 words]

- Aim 1 - [brief description]
- Aim 2 - [brief description]
- Aim 3 - [brief description]
- etc.

### Experimental plan and methods
Using the Aims of the project listed above to structure your response, please provide sufficient detail to allow experimental protocols to be assessed for suitability and likelihood of success. Please provide details of preliminary data and specify both materials & methods, source/cohort/recruitment plan, and analysis methods/statistics. Only details for routine experiments such as Western Blots, PCR, etc. should be excluded. Please save detailed power calculations, including numbers for experiments involving animals/human volunteers, for the following question.

[Experimental plan and methods - 2500 words]

### Power calculations
Please include power calculations for animal or clinical studies; the numbers discussed here should correlate with the cost justification in the finance section.

[Power calculations]

### Translation
Please state how the proposed research plans contribute to a forward translational path. You should discuss how the expected outcomes of the proposed research demonstrate a pathway to impact using the Association of Medical Research Charities' guidance on classifying impact:

- Generating new knowledge
- Translating research ideas into new products and services
- Creating evidence that will influence policy or other stakeholders
- Developing the human capacity to do research
- Stimulating further research via new funding or partnership

Please refer to ARUK's webpage on monitoring progress and impact for more information.

[Translation - 300 words]

### Help Text
Research funded by **Race Against Dementia** should accelerate global research and development in the race to find a prevention or treatment for dementia. **RAD's vision** is a breakthrough in the prevention or treatment of dementia with the greatest of urgency. Complimenting this, research funded by **Alzheimer's Research UK** must have the potential to be of value to the prevention and treatment of dementia.

Acknowledging that the translation of fundamental research to patient benefit can take many years, the Funders nevertheless believe that early consideration of the potential translational path from novel science to patients is
a useful exercise to undertake. Clearly, the translational path for some projects will be obscure in the absence of knowing the data that might be generated and this should not dissuade scientists from submitting their proposals. However, for some studies, projecting a forward translational path may change the original conception of the project so as to increase its translational potential. Thus, if a proposal is predominantly *in vitro* in nature, a consideration of how potential findings might be replicated in more complex physiological systems should be articulated. For studies that are clinical in nature, the translational path is more one of utility, and researchers should outline the path by which their research will benefit and/or be of use for patients. It might also be relevant for clinical studies to have a reverse-translational pathway, such that novel findings can be explored in a pre-clinical setting.

This information will be used in aggregate to ensure that, overall, the Fellowships that RAD and ARUK commit to funding are appropriately balanced in terms of innovation and application.

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### Secondment & Training Opportunities

Prospective Race Against Dementia Fellows are strongly encouraged to undertake *up to 24 months of* (international) secondment, which do not have to be contiguous, to foster interdisciplinary and inter-institutional interactions on a global scale. Such opportunities should also contribute towards the applicant's training as an independent dementia researcher. Please use this section to:

- justify why you have selected your secondment location(s), and what opportunities will be available to you at the Visiting institution(s) that are not available locally.
- describe the novel skills and training this Fellowship will allow you to undertake.

Additionally, if you are choosing to stay at the institution where you currently work, or have most recently worked, please describe how you have designed the Fellowship to allow you to develop beyond what you have already learnt and achieved.

*Secondment & Training Opportunities - 500 words*

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### Help Text

Prospective **Race Against Dementia** Fellows are strongly encouraged to undertake *up to 24 months of* (international) secondment, which do not have to be contiguous, to foster interdisciplinary and inter-institutional interactions on a global scale. **RAD** Fellowships aim to be flexible; if opportunities for secondment have not been confirmed at the time of writing, applicants are still encouraged to discuss them here and if opportunities arise after the start date, Fellows should approach **Alzheimer’s Research UK** with their plans.

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### Current Funding Sources

Please discuss your current, or most recent, funding and, if applicable, describe how this proposal builds on your most recent research. In order to demonstrate your ownership of the proposal, please also provide details of funded research in your Supervisor(s)' laboratories and describe how your proposal will differ significantly from work already ongoing in these laboratories.

*Current Funding Sources*

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### Help Text

One of the objectives of the **Race Against Dementia** Fellowship scheme is to provide future leaders of dementia research with a unique package of flexible funding and developmental opportunities to fast-track their progress towards becoming independent research scientists; therefore proposals in which the prospective Fellow or Supervisor(s) have already obtained funding for the outlined research, or that significantly overlap with ongoing work in the Supervisor(s)' laboratories will not be supported.
Alternative Funding Bodies
Please list other funding bodies to which you have also submitted, or intend to submit, this Fellowship; you must include the expected date of the outcome.

[Alternative Funding Bodies]

Help Text
Where applicable, if you accept funding for this proposal from an alternative source whilst your Race Against Dementia Fellowship application is still under review, you should notify Alzheimer's Research UK's Research Team (research@alzheimersresearchuk.org) as soon as possible so that your application can be withdrawn from further consideration.
# 4. References

Vancouver reference styling is preferred. Please list the references, including article titles, that have been cited in the previous section. Where appropriate, cite key papers rather than attempt to be comprehensive.

[References - 1000 words]

1. Ref 1
2. Ref 2
3. etc.
## 5. Ethics

<table>
<thead>
<tr>
<th>Will animals be used?</th>
<th>Yes</th>
</tr>
</thead>
</table>

Please select from the species list below:

- C. elegans, Mouse

<table>
<thead>
<tr>
<th>Home Office license needed?</th>
<th>Yes</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>date received or expected:</th>
<th>31/10/2018</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Are any animals genetically modified?</th>
<th>Yes</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>What is the species/model to be used?</th>
<th>Provide details of the animals used, including species, strain, sex and developmental stage</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Does your proposal involve the use of animals or animal tissue outside the UK?</th>
<th>No</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>What would be the severity of the procedures?</th>
<th>Severe</th>
</tr>
</thead>
</table>

Please provide details of any severe procedures:

[Please provide details of any severe procedures:]

**Help Text**

**Moderate**: procedures on animals as a result of which the animals are likely to experience short-term moderate pain, suffering or distress, or long-lasting mild pain, suffering or distress as well as procedures that are likely to cause moderate impairment of the well-being or general condition of the animals.

**Severe**: procedures on animals as a result of which the animals are likely to experience severe pain, suffering or distress, or long-lasting moderate pain, suffering or distress as well as procedures, that are likely to cause severe impairment of the well-being or general condition of the animals.

<table>
<thead>
<tr>
<th>Why is animal use necessary; are there any other possible approaches?</th>
<th></th>
</tr>
</thead>
</table>

[Why is animal use necessary; are there any other possible approaches?]

**Help Text**

Applicants are expected to give appropriate consideration to the 3Rs (Replacement, Refinement and Reduction) in any research involving animals that has the potential to cause the animals harm and to explain in their research proposals how the 3Rs have been taken into account. High standards in the design and conduct of
animal research and full implementation of the 3Rs are important for ethical reasons and to obtain the best possible scientific results. Experiments using animals must employ an appropriate design and use the minimum number of animals consistent with ensuring that the scientific objectives will be met and ensure that distress and suffering are avoided wherever possible. All experimental programmes must only use animals where there are no alternatives.

For further information and guidance, please refer to the NC3Rs website, the document “Responsibility in the Use of Animals in Bioscience Research” or the provisions of the Animals (Scientific Procedures) Act 1986 (ASPA).

**Why is the species/model to be used the most appropriate?**
Please discuss the disease-relevance of your model(s), any limitations (acknowledged or potential) of your model(s) and how you have designed your study to best account for the limitations.

[Why is the species/model to be used the most appropriate?]

**Will human volunteers and/or samples be used?** Yes

**Please select from the human volunteers and/or samples list below**
Please tick all that apply. **Importantly**, if CSF samples, for example, are being taken from human volunteers, then both CSF samples and human volunteers should be selected. If you will use human samples that have previously been collected and stored, or data that will be accessed through a pre-existing well defined cohort, then you do not need to tick human volunteers.

- Blood samples, Human volunteers

**Please provide details of the source of any existing samples or patient data**
For example:
- Are the samples from a private resource/cohort compiled by you and/or your Supervisor(s)/Collaborator(s) for a previous study? If yes, do you have permission from the donors to re-purpose their samples beyond the purpose for which they are originally collected?
- Alternatively, will data/samples be accessed through an existing well-defined cohort such as Brains for Dementia Research (BDR), Dementias Platforms UK (DPUK), Alzheimer’s Disease Neuroimaging Initiative (ADNI), NHS Digital, etc? If yes, have you received approval to access these resources for the purpose of this proposal?

[Please provide details of the source of any existing samples or patient data]

**Help Text**
Please ensure “Human volunteers” is selected from the list above if samples will be collected specifically for this study, even if a third party will be collecting these samples on your behalf. This is so that we can check whether the appropriate ethical approval is in place.

**Ethics approval, date received or expected:** 30/06/2019

**Lay proposal** As you have indicated that human volunteers will be involved in your study, your proposal will be sent for lay review in addition to scientific review. Lay reviewers are volunteers who have personal experience of dementia, either through caring for a family member or close friend with the condition, or because they are living with dementia themselves. Please click on the help icon for advice on preparing a lay proposal.
<table>
<thead>
<tr>
<th>What are the aims of the study?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clearly state what you are trying to achieve and why it is relevant to your audience</td>
</tr>
</tbody>
</table>

**Help Text**

When talking to the public, it is important to be able to explain your research in simple terms that get the key messages across. Your lay application summary should therefore be as clear and concise as possible as too much detail may confuse people and result in your key messages being misunderstood.

Remember that the target audience for your lay summary will be an interested audience but are not specialists - **Do not make the assumption that they are knowledgeable about medicine, science or dementia research.** You are advised to pitch your lay proposal at the same level as an article in a newspaper and to ask a non-specialist to read through it to ensure it can be clearly understood.

**Key advice for writing a lay proposal:**

- Remember that dementia isn’t a disease so refer to it as a condition.
- Keep in mind that many of those reading your lay summary may have loved ones with dementia, or have dementia themselves; as such think about how your words may agitate or upset people. For instance, avoid words such as ‘abnormal’ and instead talk about ‘differences’ and refer to people as ‘volunteers’ rather than ‘subjects’.
- When discussing the use of human tissue, such as a donated brain, acknowledge the donation.
- Keep sentences short and avoid using jargon and technical terms — if you have to use them provide a clear explanation. For instance:
  - Use ‘nerve cell’ instead of ‘neurone’
  - ‘Shrinkage’ instead of ‘atrophy’
  - ‘Problems with memory and thinking skills’ instead of ‘cognitive decline’.
- Avoid complicated English or uncommon words. For instance:
  - Use active not passive phrases; say we will look at the build-up of amyloid in the brain’ rather than ‘the build-up of amyloid in the brain will be looked at’.

<table>
<thead>
<tr>
<th>How will the research have an impact on people with dementia?</th>
</tr>
</thead>
<tbody>
<tr>
<td>People are interested in how your work could lead to a preventative measure, treatment or new diagnostic technique, so try to frame your work in this context. Remember to discuss why this work is necessary. You need to say why your project is important in helping us defeat dementia and how this particular study will take us closer to that goal.</td>
</tr>
</tbody>
</table>

**How will the research have an impact on people with dementia?**

<table>
<thead>
<tr>
<th>What does the research involve for people taking part?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Explain what tests the volunteers in this research study will be expected to take part in.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Will people have to travel to take part?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Give details of where the people taking part will have to go. If travel is required, will their expenses be covered? Can those living with, or in the early stages of, dementia, be accompanied by a family member, friend or carer?</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Will people have to travel to take part?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Give details of how many times the person will be asked to take part. Does the study involve a one-off visit or do they have to make a number of visits at different intervals throughout the research study?</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>How many visits will the volunteer taking part need to make?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Give details of how many times the person will be asked to take part. Does the study involve a one-off visit or do they have to make a number of visits at different intervals throughout the research study?</td>
</tr>
</tbody>
</table>

Date submitted: 30/10/2018
<table>
<thead>
<tr>
<th>How many visits will the volunteer taking part need to make?</th>
</tr>
</thead>
</table>

**How long will the person taking part be involved in the study for?**
Provide details of how long each individual participant session will take and whether participants will be required to have multiple tests in one visit. If the person taking part is required to attend multiple sessions, provide details of the duration of the research study.

**What information will be collected, and how will it be used and stored?**
Describe the information that the people involved in your research will provide you with and how this relates to the aims of the research study. If the information is being stored, how will it be stored securely and anonymously? What will happen to samples and stored information after the study has ended?

**What will happen to samples and stored information after the study has ended?**
6. Finance and costs

Staff members

Budget Item 1

<table>
<thead>
<tr>
<th>Name (if known)</th>
<th>Alzheimer's Research</th>
</tr>
</thead>
<tbody>
<tr>
<td>Staff Type</td>
<td>Research</td>
</tr>
<tr>
<td>Salary Scale</td>
<td>UCEA</td>
</tr>
<tr>
<td>Scale Grade - UCEA</td>
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</table>

<table>
<thead>
<tr>
<th></th>
<th>Year 1 (£)</th>
<th>Year 2 (£)</th>
<th>Year 3 (£)</th>
<th>Year 4 (£)</th>
<th>Year 5 (£)</th>
<th>Total (£)</th>
</tr>
</thead>
<tbody>
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<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
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<tr>
<td>National Insurance</td>
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<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
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<tr>
<td>Superannuation</td>
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<tr>
<td>Inflation</td>
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<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
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<tr>
<td>London Weighting</td>
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<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>£0.00</strong></td>
<td><strong>£0.00</strong></td>
<td><strong>£0.00</strong></td>
<td><strong>£0.00</strong></td>
<td><strong>£0.00</strong></td>
<td><strong>£0.00</strong></td>
</tr>
</tbody>
</table>

Do the salary costs include any adjustments for secondments to a Visiting institution? | Yes

Please use this space to detail any salary adjustments for secondments periods

You should clearly state which years of the Fellowship include a salary adjustment and provide justification, which should be based on justified living costs at the Visiting institution. You must provide proof that the costs for a secondment phase have been approved by the Visiting institution. For each secondment, you are advised to attach a letter of support from the relevant department of the Visiting institution.

[Please use this space to detail any salary adjustments for secondments periods]

Help Text for Staff Members

The prospective Fellow's name and salary details should be added here using the ‘Add staff member’ link. Additional Staff Members may be listed, and their names should be provided if known. However, the Funders acknowledge that it may not be possible to recruit such staff until funding has been secured.

International Secondment(s)

Where a particular year, includes an international secondment both Race Against Dementia and Alzheimer's Research UK understand that this may require an appropriate salary adjustment based on justified living costs from the Visiting institution. You must provide proof that the costs for a secondment phase have been approved by the Visiting institution. For each secondment, you are advised to attach a letter of support...
from the relevant department of the Visiting institution.

Animals

Budget Item 1

Animals

<table>
<thead>
<tr>
<th>Item</th>
<th>Mouse</th>
</tr>
</thead>
</table>

| Model   | Mouse-X |

<table>
<thead>
<tr>
<th>Justification</th>
</tr>
</thead>
</table>

**Help Text for Animals**

This scheme will cover directly incurred animal costs.

**Please clearly state where a cost is associated with research at the Home institution or a Visiting institution.** You must provide proof that the costs for a secondment phase have been approved by the Visiting institution. For each secondment, you are advised to attach a letter of support from the relevant department of the Visiting institution.

Animal costs for future years may incorporate a calculation for inflation of up to 3.5% per annum. ARUK will pay invoices for the values actually spent, up to a maximum of the budgeted amount, and supported by an auditable record.

<table>
<thead>
<tr>
<th>Year 1 (£)</th>
<th>Year 2 (£)</th>
<th>Year 3 (£)</th>
<th>Year 4 (£)</th>
<th>Year 5 (£)</th>
<th>Total (£)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Animals</td>
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<td>0</td>
<td>0</td>
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</table>

<table>
<thead>
<tr>
<th>Year 1 (£)</th>
<th>Year 2 (£)</th>
<th>Year 3 (£)</th>
<th>Year 4 (£)</th>
<th>Year 5 (£)</th>
<th>Total (£)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Costs</td>
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<td>0.00</td>
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<td>0.00</td>
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Running costs

Budget Item 1

Running Costs

<table>
<thead>
<tr>
<th>Item</th>
<th>Running Cost</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Justification</th>
</tr>
</thead>
</table>

**Help Text for Running Costs**

Running costs can include consumables, small pieces of equipment, conference travel & registration, etc. However, indirect costs, including ground rent, overheads and staff recruitment costs should not be included.

**Please do not include all running costs as on entry/item. Running costs should be broken down into suitable categories, providing full justification so that sufficient information is provided for review.**

Please clearly state where a cost is associated with research at the Home institution or a Visiting
institution. You must provide proof that the costs for a secondment phase have been approved by the Visiting institution. For each secondment, you are advised to attach a letter of support from the relevant department of the Visiting institution.

Running costs for future years may incorporate a calculation for inflation of up to 3.5% per annum. ARUK will pay invoices for the values actually spent, up to a maximum of the budgeted amount, and supported by an auditable record.

<table>
<thead>
<tr>
<th>Year 1 (£)</th>
<th>Year 2 (£)</th>
<th>Year 3 (£)</th>
<th>Year 4 (£)</th>
<th>Year 5 (£)</th>
<th>Total (£)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Costs</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
</tr>
</tbody>
</table>

**Secondment costs**

**Budget Item 1**

**Secondment Costs**

<table>
<thead>
<tr>
<th>Item</th>
<th>Secondment cost 1</th>
</tr>
</thead>
</table>

**Justification**

*Help Text for Secondment Costs*

Secondment costs can include visa costs, health insurance, justified living costs and travel expenses for meetings with the home Supervisor(s) and/or RAD Mentors. Please do not include all secondment costs as one entry/item. Secondment costs should be broken down into suitable categories, providing full justification so that sufficient information is provided for review.

Salary adjustments should not be included here, they should be included in the "Staff members" section above. Animal and Running Costs incurred at a Visiting institution should not be included here, they should be listed in the appropriate sections above. You must provide proof that the costs for a secondment phase have been approved by the Visiting institution. For each secondment, you are advised to attach a letter of support from the relevant department of the Visiting institution.

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<table>
<thead>
<tr>
<th>Year 1 (£)</th>
<th>Year 2 (£)</th>
<th>Year 3 (£)</th>
<th>Year 4 (£)</th>
<th>Year 5 (£)</th>
<th>Total (£)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Costs</td>
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<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
</tr>
</tbody>
</table>

**Is inflation calculated in the non-salary costs?** No

**Totals**

<table>
<thead>
<tr>
<th></th>
<th>Year 1</th>
<th>Year 2</th>
<th>Year 3</th>
<th>Year 4</th>
<th>Year 5</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Salaries</td>
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<td>£0.00</td>
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<tr>
<td>Animals</td>
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<td>£0.00</td>
<td>£0.00</td>
<td>£0.00</td>
<td>£0.00</td>
</tr>
<tr>
<td>Running costs</td>
<td>£0.00</td>
<td>£0.00</td>
<td>£0.00</td>
<td>£0.00</td>
<td>£0.00</td>
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</tr>
<tr>
<td>Secondment Costs</td>
<td>£0.00</td>
<td>£0.00</td>
<td>£0.00</td>
<td>£0.00</td>
<td>£0.00</td>
<td>£0.00</td>
</tr>
<tr>
<td>Total</td>
<td>£0.00</td>
<td>£0.00</td>
<td>£0.00</td>
<td>£0.00</td>
<td>£0.00</td>
<td>£0.00</td>
</tr>
</tbody>
</table>

Date submitted: 30/10/2018
7. Principal applicant’s CV

Have you already obtained your PhD? No

Please state the date you expect to obtain your PhD
This is expected to be before the final Grant Review Board meeting in June 2019.
May 2019

Title Prof Address Line 1 3 Riverside
Forename(s) Research Address Line 2 Granta Park
Surname Team Address Line 3
Date of Birth
Nationality Country Cambridgeshire
Speciality Research Postcode CB21 6AD
Position Telephone No. 01223824500
Department Research Email Address research@alzheimersresearchuk.org
Institution Alzheimer’s Research UK

> Degree/qualification

From To Qualification Institution

Employment record

From To Position Organisation

Publications
Publications

Current grants and contracts

Start Total Award Source Title Details
(mm/yyyy) Amount

Scientific career

Date Details

Early Career Researcher Framework
Race Against Dementia aims to identify and financially back the most outstanding early-career researchers, in order to fast-track their progress towards becoming independent dementia research scientists. An impressive scientific career to date, however, is just one stepping stone along the pathway to independence. You should now discuss the progress you have made towards the criteria outlined in Alzheimer’s Research UK’s Early Career Researcher Framework (.pdf download), which comprises the following sections:

1. Research Vision
2. Research Experience and potential (if not covered in “Scientific career” above)
3. Personal development
4. Leadership
5. Communication and engagement skills
6. Profile and influence
Other relevant details

[Other relevant details - 1000 words]

Help Text

You may wish to use this section to elaborate on career breaks, part-time working and/or other academic/professional commitments that may impact upon the Fellowship. As a Race Against Dementia Fellow, you will be expected to be entirely committed to the work proposed in the application. However, the scheme will be supportive of Fellows required to undertake additional commitments for personal development needs, including academic teaching, lab demonstrating work and NHS clinical sessions provided all such activities relate to the main thrust of the Fellow’s research interests.

The Head of Department at the Host institution should confirm their willingness to comply with the conditions relating to teaching when the Host institution accepts the award, and they should provide Alzheimer’s Research UK with details of the teaching or any other extra activity the Fellow will undertake at the earliest opportunity.
8. Supervisors' CVs

**Lead Supervisor** Please add the lead Supervisor for this application

**Co-Supervisor(s)** Please add the co-Supervisor(s) for this application
9. Collaborators

Please attach letter(s) of support.
10. Attachments

NOTE: All attachments from the application will be displayed above, this includes any added in the section below. It may take a few minutes beyond the loading time before the documents appear in the attached files section.
11. Disease classification

For classification purposes only, which major disease groups best fit your research, tick all that apply.

Disease

Alzheimer’s disease (and variants)
12. Research area

For classification purposes only, which research area best fit your research, tick all that apply.

Research Area

- Understanding the cause of disease
13. Lead applicant statement

I certify that the statements in this application are true, complete and accurate to the best of my knowledge. I certify that I have obtained the necessary consents and permissions to present all materials and data included in this application. In addition, I certify that I have acknowledged the source of all materials and data included in this application. I agree to accept responsibility for the scientific content of the project and to provide the required progress and impact reports if a grant is awarded as a result of this application.

As the lead applicant I certify responsibility for this application.