

Response Mode Funding



Alzheimer's
Research
UK

The Power
to Defeat
Dementia

Major Project Grants

Provides up to £1 million for high quality basic and clinical research projects.

Organisation	Lead Applicant	Title
University of Southampton	Prof Delphine Boche	Interplay between T cell immunity and innate neuroinflammation in primary Tauopathies
University College London	Prof Patricia C. Salinas	Restoring Wnt signalling in AD: an epigenetic approach
University of Bath	Dr Jody Mason	Downsized Cell-derived Peptides as Potent Inhibitors of aS Toxicity
University of Cambridge	Prof David Rubinsztein	Small heat shock proteins and tauopathies
University College London,	Prof Nick Fox	Determining the causes and consequences of brain amyloidosis, atrophy and cerebrovascular disease
University of Aberdeen	Prof Bettina Platt	Neuronal hBACE1: The link between Alzheimer's disease and diabetes?
University of Exeter	Dr Jon Brown	Functional consequences of impairments to gamma frequency network oscillations in mouse models of dementia
University College London,	Dr Josephine Barnes	Automated subcortical brain segmentation using multispectral MRI for improved AD diagnosis and disease tracking
University College London	Prof Frances Edwards	Modelling Alzheimer's disease pathology in 3D neuronal cultures and organotypic slices and the role of microglia
King's College London,	Prof Chris Miller	The Sigma 1 receptor and ER-mitochondria signaling in fronto-temporal dementia
University of Bristol	Prof Seth Love	Hypertension, hypoperfusion and neurodegeneration in Alzheimer's disease
The Open University	Dr Cheryl Hawkes	Targeting perivascular innervation and vascular tone for improved clearance of β -amyloid from the brain
King's College London,	Prof Chris Miller	Endoplasmic reticulum-mitochondria interactions and Alzheimer's disease
University of Cambridge	Prof Michael Coleman	Causes and consequences of dystrophic axons
Imperial College London	Prof David Brooks	Imaging amyloid and neuroinflammation in subjects "at risk" for Alzheimer's disease
Newcastle University	Prof Alan Thomas	123I-MIBG Scintigraphy Utility as a biomarker for Prodromal DEmentia with Lewy Bodies (SUPERB)
University of Nottingham	Prof Kevin Morgan	Enabling high-throughput genomic approaches in Alzheimer's disease.
University of Edinburgh	Prof Karen Horsburgh	Microglial proliferation and neuroinflammation: contribution to axon-glia breakdown and vascular cognitive impairment
University of East Anglia	Prof Chris Fox	The impact of acute systemic inflammation upon cerebrospinal fluid and blood biomarkers of brain inflammation and injury in dementia: a study in acute hip fracture and memory clinic patients
University of Exeter	Giordano Pula	Cerebrovascular stress: a role for endothelial cells and platelets in Alzheimer's Disease.
University of Cambridge	Prof Hugh Markus	Optimising multimodal MRI markers for use as surrogate markers in trials of Vascular Cognitive impairment due to cerebral small vessel disease
University College London	Prof Adrian Isaacs	Frontotemporal dementia-causing mutations in C9orf72: investigation of the toxic mechanism
Imperial College London	Dr Paul Edison	Evaluation of tau aggregation detected by novel tau tracer, [18F]T807 PET in mild cognitive impairment subjects: a preliminary collaborative PET study.

Pilot Project Grants

Provides up to £50,000 for small innovative research projects and pilot studies.

Organisation	Lead Applicant	Title
University of Southampton	Assistant Prof Ruihua Hou	Gaining new insight into the pathogenesis of Alzheimer's disease: investigating the role of the locus coeruleus using neuromelanin-sensitive MRI
Newcastle University	Dr John-Paul Taylor	Dissociating cognitive fluctuations, sleep and arousal in dementia with Lewy bodies: a pilot study
University of Oxford	Dr George Tofaris	Development of small molecule Usp8 inhibitors as therapeutics in Lewy body dementia
University College London	Dr Selina Wray	Investigating mitochondrial dysfunction in frontotemporal dementia caused by progranulin mutations
University College London	Dr Huiliang Li	Cholesterol esters in oligodendrocytes and the implications for Alzheimer's disease
King's College London	Dr Manolis Fanto	Understanding neuronal cell death in dementia
University College London	Prof Matilda Katan	Functional assessment of PLCG2 rare variants associated with Alzheimer's
University of Cambridge	Ms Madeleine Walpert	The retina as a biomarker of AD-related change in Down's syndrome
King's College London	Prof Peter Giese	Early deficits in synaptic signalling in Alzheimer's disease
University of Sheffield	Dr Daniel Blackburn	Developing a new biomarker for the early diagnosis of dementia; a novel nonlinear signal processing approach using resting state EEG.
University of Edinburgh	Dr Iris Oren	Development and validation of tools for investigating tau propagation in early stage Alzheimer's disease
The Open University	Dr Cheryl Hawkes	Maternal obesity and risk of developing Alzheimer's disease: the Framingham Heart Study
Cardiff University	Prof Lesley Jones	Detecting simple repeat sequences in the genome and their effects in dementias
Cardiff University	Prof Nigel Williams	A genomic medicine approach to identifying novel drug targets for Alzheimer's disease.
University of Oxford	Prof Klaus Ebmeier	Ultra-high field MRI in early Alzheimer's disease: characterising iron deposition
University of Strathclyde	Dr Shuzo Sakata	Global reduction in Alzheimer's pathology by basal forebrain activation
Newcastle University	Prof Johannes Attems	Neuronal vulnerability to Lewy body pathology
University of Sheffield	Dr Julie Simpson	Neutrophil derived microvesicles: linking systemic inflammation and dementia.
University of Exeter	Dr Katie Lunnon	An integrated "omics" analysis to elucidate the role of miRNAs in Alzheimer's disease.
Cambridge Institute for Medical Research	Prof J. Paul Luzio	Discovering how the APP intracellular domain modulates endolysosomal function
University of Southampton	Dr Katrin Deinhardt	Dissecting the molecular basis of selective axonal subcompartment vulnerability in tauopathy
University of Exeter	Dr Emma Dempster	Developing approaches to address neural cell heterogeneity in genomic studies of Alzheimer's disease
University of Liverpool	Dr Jillian Madine	Gold nano-rods and multispectral optoacoustic tomography - a new approach to understanding amyloid
University College London	Dr Graham Jackson	The development of Tau and Nfl serum measurements as biomarkers for prion disease progression
Imperial College London	Prof Robert Glen	Establishing a link between the gut-brain axis and Alzheimer's disease

PhD Scholarships

Provides funds for a full PhD programme, to be applied for by the supervisor.

Organisation	Lead Applicant	Title
University of Salford	Dr Gemma Lace-Costigan	Alterations in autophagy in frontotemporal lobar degeneration: identifying new targets for therapeutic intervention
University of Cambridge	Prof Carol Brayne	The Cognitive Function and Ageing Study: a proposal for doctoral training focused on gender
University of Edinburgh	Dr Barry McColl	Contribution of TREM2 and neuroinflammation to neurodegeneration and cognitive dysfunction in response to chronic cerebral hypoperfusion
University College London	Prof Nick Fox	Just below the surface: Understanding the role of superficial white matter in Alzheimer's disease
University of Sheffield	Prof Stephen Wharton	Cholesterol dysregulation in the neurovascular unit as an early contributor to neuronal dysfunction in Alzheimer's disease
King's College London	Dr Wendy Noble	Investigating P2X7-mediated inflammatory signalling in Alzheimer's disease
University College London	Prof Adrian Isaacs	Identification and characterization of novel modulators of C9orf72 FTD RAN translation
University of Edinburgh	Prof Kathryn Ball	Using iPSC-derived neurons to study homeostatic control of aSyn by the E3-ubiquitin ligase and co-chaperone CHIP
University of Southampton	Dr Mariana Vargas-Caballero	Ups and downs of NMDA receptor phosphorylation by Fyn kinase: relevance for synaptic function in AD.
University College London	Dr Tammarny Lashley	Deciphering pathological heterogeneity in familial Alzheimer's disease
King's College London	Dr Deepak Prakash Srivastava	The role of late onset Alzheimer's disease risk genes in synaptotoxicity.
University College London	Professor John Hardy	Using genetic variability in whole transcriptome expression in the hippocampus and temporal cortex to understand the pathogenesis of Alzheimer's disease
Imperial College London	Dr Vincenzo De Paola	A new in vivo model of axon pathology in human tau mutants
University of Bath	Dr Julien Licchesi	How does mutant ubiquitin drive neurodegeneration?
University College London	Dr Rita Guerreiro	Complete molecular characterization of dementia in understudied populations
University of Cambridge	Professor James Rowe	Elucidating the mechanisms of psychosis in motor neuron disease
University of Bristol	Dr Scott Miners	Age-associated changes in the renin-angiotensin system - implications for future clinical trials
University of Sheffield	Dr Julie Simpson	Neutrophil-derived microvesicle-induced blood brain barrier dysfunction and white matter lesion formation in the ageing brain
King's College London	Dr Elizabeth Glennon	Investigating the roles of the Alzheimer's risk gene BIN1 in endoplasmic reticulum (ER) stress

Research Fellowships

For junior non-clinical researchers with clear plans to establish their own research “niche”.

Organisation	Lead applicant	Title
University of Cambridge	Dr Jack Brelstaff	The role of microglial phagocytosis in tau dependant neurodegeneration
King's College London	Dr Beatriz Gomez Perez-Nievas	Astrocytes influence interactions between Abeta and tau to cause synaptotoxicity in AD
King's College London	Dr Elizabeth Glennon	Investigating the role of BIN1 in tau missorting and secretion
The Royal Veterinary College	Dr Marthe Ludtmann	Mitochondrial calcium dysregulation in Alzheimer's disease—does it offer a novel therapeutic target?
University of Bristol	Dr Jonathan Witton	Dysfunctional synaptic and neuronal network encoding in tauopathy-associated dementia
University of Cambridge	Dr Sujeong Yang	Perineuronal nets as a novel therapeutic target for dementia in Alzheimer's disease and related tauopathies

Clinical Research Fellowships

For promising clinically qualified researchers with clear plans to establish their own niche.

Organisation	Lead Applicant	Title
Imperial College London	Dr Neil Graham	Predicting neurodegeneration after traumatic brain injury: a longitudinal study of an environmental risk factor for Alzheimer's disease
Cardiff University	Dr Adele Pryce Roberts	Effect of APOE genotype on synaptic function in Late Onset Alzheimer's Disease (LOAD)
University College London	Dr Rachelle Shafei	Identification of novel biofluid markers of TDP-43 pathology

Senior Research Fellowships

Designed to retain excellent clinical and non-clinical researchers with potential to become leading PIs but have not yet attained tenure.

Organisation	Lead Applicant	Title
University College London	Dr Tammarn Lashley	Are multiple mechanisms involved in FTLT-DTP pathogenesis; will one drug fit all?
University College London	Dr Teresa Niccoli	Role of glucose metabolism in C9orf72 repeat expansion toxicity
University College London	Dr Josephine Barnes	Imaging markers of vascular disease: vascular risk predictors and Alzheimer's disease correlates
University College London	Dr Josephine Barnes	Measuring, Tracking and Disentangling the Impact of White Matter Disease in AD and Mixed Disease: A Longitudinal MRI and CSF Study
University of Cambridge	Li Su	From molecules to recurrent visual hallucinations: multimodal imaging and computational modelling of Dementia with Lewy bodies
University of Edinburgh	Dr Jill Fowler	Therapeutic potential of boosting astrocytic Nrf2-mediated antioxidant signalling in combating white matter damage, amyloid pathology and cognitive deficits caused by chronic cerebral hypoperfusion
University College London	Dr Selina Wray	Investigating the role of tau in dementia using patient-derived cell models: distinct mechanisms or common endpoint?
University College London	Dr Frances Wiseman	Down Syndrome and Alzheimer's disease: the role of genes other than APP - are cysteine cathepsins a therapeutic target?
King's College London	Dr Petroula Proitsi	Deciphering the causal relationship between blood metabolic biomarkers and Alzheimer's Disease

Global Clinical Trials Fund

Supports Phase I and II clinical trials that have potential to be of benefit to people with dementia.

Organisation	Lead Applicant	Title
University of Oxford	Prof Jane Armitage	ASCEND (A Study of Cardiovascular Events in Diabetes) Cognitive Function Assessment: Evaluating the effect of aspirin, and omega-3 fatty acids, on cognitive function in diabetes

Interdisciplinary Research Grants

Designed to encourage researchers into dementia research who have expertise which could benefit the field.

Organisation	Lead Applicant	Title
University of Exeter	Dr Michael Craig	Improving Neurotransmission through the Brain's Memory Centres: A Pharmacogenetic Approach to Treating Dementia
The Francis Crick Institute	Dr Jean-Paul Vincent	Could inhibitors of notum, a Wnt deacylase, help alleviate the symptoms of AD?
Imperial College London	Dr. James Choi	Ultrasound delivery of BACE1 inhibitors across the blood-brain barrier in a model of Alzheimer's disease
University of Cambridge	Prof Clare Bryant	The molecular basis of the innate response to oligomers of beta amyloid and alpha synuclein
University College London	Dr. Jason Rihel	Physiological, behaviorally relevant targets of amyloid beta sleep regulation in vivo
Cardiff University	Dr Emyr Lloyd-Evans	Determining the role of lysosomal Ca ²⁺ signalling in the pathogenesis of Alzheimer's disease
King's College London	Dr Joseph Bateman	Investigating HIF-1alpha as a treatment target for mitochondrial dysfunction in dementia
University of Central Lancashire	Dr Maria Inmaculada Gonzalez	Role of Frontotemporal dementia-associated mutations of CHMP2B in regulation of synaptic function

Equipment Grants

Provides up to £100,000 for scientific equipment.

Organisation	Lead Applicant	Title
University of Cambridge	Prof Michael Coleman	Quantitative western blotting in dementia research: synapses, tau, plasticity, microglia, astrocytes
University of Nottingham	Dr Keeley Brookes	Multi-functional AriaMx real-time machine
The University of Manchester	Prof Stuart Allan	Assessing the contribution of reduced cerebral blood flow to dementia
The University of Manchester	Dr David Hicks	Culture of induced pluripotent stem cell-derived human neurons in a microfluidic flow system
University of Bath	Dr Robert Williams	EVOS live imaging microscopy platform for studying cellular dysfunction in AD
Aston University	Prof Andrew Devitt	Towards defining the functional surface of extracellular vesicles in dementia.
University of Bristol	Prof Patrick Kehoe	Excelsior AS Brain Tissue Processor to underpin UK Dementia Research
University of Sheffield	Dr Scott Allen	Equipment grant application for an i2/H35 Hypoxic Chamber

Target Validation Pathfinder Grants

Provides up to £50,000 for small, translational research projects that show potential for a future application to our drug discovery initiatives.

Organisation	Lead Applicant	Title
The University of Queensland	Prof Elizabeth Coulson	Modulating Trk receptors for the treatment of dementia and Alzheimer's disease
University Medical Center Groningen	Prof Harm Kampinga	Targeting DNAJB6 to prevent amyloidosis in polyglutamine diseases
University of Cambridge	Dr Mark Halliday	Identifying the molecular target of the drug trazodone responsible for its neuroprotective effects

Prevention and Risk Reduction Fund

A one off call for research focusing on lowering dementia risk. Future projects focusing on risk reduction can go through our Major Projects and Global Clinical Trials Fund.

Organisation	Lead Applicant	Title
The University of Manchester	Dr David Reeves	Predicting risk of dementia using routine primary care records
University of Cambridge	Prof Carol Brayne	The feasibility and practicality of dementia risk reduction in the older population: A pilot trial
University College London	Dr Sergi Costafreda Gonzalez	Treating Auditory impairment and CogniTion(TACT): a pilot trial of hearing aids for dementia risk
University of East Anglia	Prof Dr Anne Marie Minihane	Diet, physical activity and dementia risk in UK adults: Epidemiology and MedEx feasibility study

Extension Grants

For Alzheimer's Research UK Major Projects that would benefit from additional funding due to unpredicted advances.

Organisation	Lead Applicant	Title
University of Cambridge	Prof Clare Bryant	The molecular basis of the innate response to oligomers of beta amyloid and alpha synuclein

Network Cooperate Grants

Provides up to £100,000 for projects or schemes that will further collaboration between two or more Network Centres.

Organisation	Lead Applicant	Title
University of Aberdeen	Prof Bettina Platt	Spatio-temporal profiling of soluble protein species in human Alzheimer's disease
University of Bristol	Dr Scott Miners	Exploring the role of inflammation, cerebral hypoperfusion, and pericyte function in dementia
University of Exeter	Dr Katie Lunnon	Determining the potential utility of epigenetic modulators to treat Alzheimer's disease: A collaboration between Exeter and Oxford ARUK Network Centres and the Oxford DDI
University of Reading	Dr Mark Dallas	Microglial remodelling in dementia

Network Accelerate Scheme

Provides up to £250,000 for research resources or tools to benefit the biomedical dementia research field.

Organisation	Lead Applicant	Title
King's College London	Prof Dag Aarsland	Diagnostic and prognostic biomarkers for dementia with Lewy bodies
University of Bristol	Prof Seth Love	Network for the development, validation and implementation of new methods to measure vascular dysfunction in dementia
University College London	Dr. Ruth Lovering	A biomedical resource integrating biological knowledge relevant to dementia into public databases through Gene Ontology annotation
University College London	Dr David Thomas	Multi-centre optimization and harmonization of MRI image acquisition schemes: a UK-wide coordinated approach to advanced neuroimaging in dementia

Network Support Grant

To cover unanticipated funding shortages to retain key researchers or complete key work.

Organisation	Lead Applicant	Title
University of Cambridge	Prof Maria Grazia Spillantini	Validating a mouse model of alpha-synuclein gut-brain spreading