

PREVENTION PIPELINE

FUNDING OPPORTUNITY DESCRIPTION

The ADDF seeks to support studies of cognitive symptoms due to health conditions, comparative effectiveness research, and epidemiological studies that probe whether the use or choice of drugs alters the risk for dementia or cognitive decline.

The Prevention Pipeline RFP supports:

1. **Studies of Cognitive Decline and Risk Reduction:** Cognitive decline through aging and health conditions has been linked to an increased risk of dementia. The ADDF will consider funding programs to prevent and treat these conditions, including menopause-related cognitive symptoms, postoperative delirium and postoperative cognitive decline, mild and/or repetitive traumatic brain injury, and chemotherapy-induced decline. Methods may include epidemiology or clinical trials. For clinical trial proposals, please see below detailed instructions and priorities under “Expectations and Evaluation”.
2. **Comparative Effectiveness Research:** For many health conditions, physicians have a choice of clinically equivalent drugs. Some of these drugs are being investigated for repurposing to treat Alzheimer's or related dementias, due to potential disease-modifying properties that go beyond the treatment of their approved disease indication. The ADDF will consider funding research to generate an evidence base on whether choices in the routine clinical care of pre-existing conditions could protect from dementia. Priority will be given to the comparison of drugs that are otherwise clinically equivalent for the pre-existing condition (see Box 1 in the [ADDF 2016 position paper](#)). Methods may include randomized trials or epidemiology.
3. **Studies Leveraging the Consortium of Cohorts for Alzheimer's Prevention Action (CAPA):** Epidemiological studies contribute unmatched information on whether the risk of dementia or cognitive decline may be influenced by long-term exposure to supplements or medications. However, high-powered studies are needed, ideally with dose, duration, and responder profiles, in order to translate epidemiological research into actionable interventions for testing. Through the CAPA Consortium, the ADDF funds collaborative analyses on dementia prevention using a minimum of five longitudinal cohorts, either harmonized or analyzed through parallel analysis of cohorts using a shared analysis script. [More information here.](#)

Type of therapy: Novel, repurposed and repositioned drugs, as well as natural products and devices will be considered. Therapeutic modalities of interest include small molecules, peptides, antibodies, gene therapies, antisense oligonucleotides, and stem cells. Other non-pharmacologic interventions, such as diet, meditation, and exercise, will not be considered.

Drug mechanisms or modes of action: Novel drug mechanisms and modes of action related to the biology of aging and other emerging therapeutic areas for dementia are considered high priority. These include, but are not limited to:

- Epigenetics
- Inflammation
- Mitochondrial & metabolic function
- Neuroprotection
- Proteostasis
- Synaptic activity and neurotransmitters
- Vascular function
- Other mechanisms and modes of action related to the biology of aging (e.g. senescent cells)

- Other novel mechanisms or modes of action that are supported by compelling evidence demonstrating a rational biological connection to the disease process
- **Please note:** Anti-amyloid approaches (e.g., anti-amyloid aggregation, beta-amyloid vaccines, beta- or gamma-secretase inhibitors) and cholinesterase inhibitor proposals will not be considered

UPCOMING DEADLINES

ELIGIBILITY

AWARD INFORMATION

EXPECTATIONS AND EVALUATION

For clinical trial applications, the following guidance may assist you in developing a strong application that allows reviewers to better evaluate the science and merit of your proposal. The strongest proposals will contain many or all of the aspects listed below, although we recognize that the field is still in need of a better understanding of underlying biological mechanisms and validated biomarkers.

Please note: For clinical trial applications, ADDF prioritizes novel drug candidates with composition of matter intellectual property (IP) and repurposed or repositioned drugs with strategies to develop novel IP.

Mechanisms or modes of action: Applicants are encouraged to provide a clear rationale and compelling evidence for targeting the proposed mechanism or mode of action in the disease or condition and should specifically address these questions in the proposal:

- Is the mechanism or mode of action novel? How is the target biology more compelling than other related targets that have been tested for the disease?
- Is there human genetic evidence linking the target biology to the disease?
- Is the target expressed in disease-relevant regions of the brain (or where applicable, in the periphery) in humans and/or animal models?
- Are there changes in target mRNA/protein expression or activity in human disease specimens, and do they correlate with disease severity and cognitive functions?
- Does genetic and/or pharmacological manipulation of the target in disease-relevant in vitro (e.g., primary cultured neurons/glia or cells derived from patient iPSCs) or in vivo models alter disease phenotypes?
- If the molecular target is unknown, the strength of the evidence for the mode of action and its link to disease pathophysiology will be evaluated. The applicant should summarize the existing evidence in the proposal

Preliminary data: Applicants are encouraged to include data around many or all of the following:

- Supportive preclinical efficacy data in relevant animal models
- Evidence of blood-brain barrier penetration (for CNS targeted therapies)
- Preclinical and, if available, clinical PK/PD data on dose optimization for the intended route of administration and dosing regimen
- Preclinical, and if available, clinical safety data. Proposals should include plans to address remaining safety concerns if any are identified in earlier studies

Clinical population: Proposals including patients should provide justification for the selected clinical population and how enrollment criteria such as clinical subtype, stage of severity, known genetics (e.g. ApoE status), and neuropathology (e.g. amyloid positivity) relate to the proposed mode of action. Applicants must

provide information about recruitment of the target population to demonstrate that a sufficient number of patients are available to meet recruitment goals.

Expectations for biomarker-based proof-of-concept studies:

- Provide justification for the dose(s) selected
- Design studies to answer specific questions about a therapy’s activity, including whether an intervention is safe, engages its target, induces expected downstream pharmacological effects, and leads to changes on disease-related measures
- Include biomarker outcomes that align with the proposed mechanism or mode of action and, where possible, are predictive of clinical efficacy
- Include clinical assessments that align with the appropriate domains of the clinical syndrome, stage of disease, and mechanism of action. Although these studies may not be powered to detect differences in clinical outcomes, the inclusion of cognitive and neuropsychological endpoints may be informative as exploratory outcomes. Expected directional changes that correlate with biomarker changes may be observed and can inform planning for subsequent studies
- Engage a biostatistician early in the development of the study design. Statisticians can help to determine the appropriate study design options and sample size calculations for these smaller biomarker-based studies, particularly when novel biomarkers without established effect sizes are used

Investigative team: Clinical trials often require resources beyond those available at a single organization and collaboration with other investigators and contract research organizations and consultants are encouraged.

Please note: All clinical trials receiving ADDF funding must register and submit results for “applicable clinical trials” on the [ClinicalTrials.gov Protocol Registration and Results System Information](#) website.

APPLICATION SUBMISSIONS

Review the [Application Instructions](#) for steps on applying.

[LOG IN OR CREATE ACCOUNT](#)

We encourage you to contact us if you would like to discuss your proposed project and receive initial feedback.

For scientific inquiries, please contact:

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For inquiries related to contracting and the online funding portal, please contact:

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Alzheimer's Drug Discovery
Foundation



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