

PFIZER'S CENTERS FOR THERAPEUTIC INNOVATION

REQUESTS PROPOSALS FOR THERAPEUTIC TARGETS

Rolling Admission-Final Deadline: September 21, 2020



Pfizer's Centers for Therapeutic Innovation, or CTI, is a unique joint drug discovery model focused on collaborating with leading academic medical centers to translate and transform concepts into breakthroughs that change patients' lives.

The CTI 2020 Call for Proposals (CFP) is focused on identifying novel therapeutic opportunities in the areas outlined below with application in Pfizer's core research focus areas: oncology, inflammation & immunology, internal medicine and rare diseases.

CTI Collaborations Include:

- Funding for project-specific research
- Hands-on collaboration from dedicated Pfizer drug-development experts
- Access to scientific/technological expertise and infrastructure at Pfizer
- Potential for in-licensing by Pfizer, which would include milestone and royalty payments
- Publishing rights

Submission Process:

Submission entails a non-confidential 2-3 page overview of the target, mechanism, evidence for disease linkage, and the proposed therapeutic drug. At a high level, the pre-proposal should suggest how the therapeutic hypothesis could be tested in the clinic.

Pre-proposals submitted to Pfizer CTI will be reviewed on a rolling basis.

For Information:

All researchers and clinicians whose work meets these criteria are invited to apply. **Please submit non-confidential pre-proposals to your Technology Transfer Office by September 21st.** For further information about submitting a pre-proposal or about CTI areas of focus and your specific project concept(s), please contact Sean Evans, sean@jhmi.edu.

Areas of Interest and Targets/Pathways of Focus:

1. Opportunities related to **DNA Damage Response and Replicative Stress** such as:
 - Chromatin and DNA damage response modulators in the context of nuclear or spatial organization (e.g. biochemical condensates)
 - Novel targets identified via synthetic lethal, chemical biology or other approaches, including DNA repair enzymes (esp. nucleases), scaffolding factors and nucleic acid targets (R-loops, G-quadruplexes)
 - DNA damage proteins associated with diseases such as cancer and repeat expansion diseases

Out-of-scope: cell therapies, antibody-drug conjugates, nucleic acid therapeutics
2. Opportunities that address the cause or treatment of **Repeat Expansion Diseases**, such as:
 - Therapeutic targeting of the mutant gene
 - Interventions that halt or reverse the somatic expansion of the repeating DNA sequences
 - Novel mechanisms that modulate or regulate the pathological repeat
 - Genetic modifiers of repeat instability or repeat contraction

Out-of-scope: therapeutic approaches that target/clear protein aggregates
3. Opportunities to target **Cellular Senescence**, including senolytic and senomorphic approaches such as:
 - Induction or targeting of senescent-like arrest of tumor cells to overcome drug resistance and/or improve immune response to solid tumors
 - Novel senescence targets related to fibrosis, specifically mechanisms responsible for modulating fibroblasts/myofibroblasts function and tissue remodeling by stem/tissue progenitor cells
 - Targeting of senescence pathways in tissue resident immune cells in the liver, lung, skin, joints, and gastrointestinal tract that contribute to disease

Out-of-scope: telomeres/telomerase targeting approaches, age-related dysfunction
4. Opportunities related to **Tissue-Immune System Crosstalk** in disease pathology including:
 - Targets/pathways that induce immune tolerance by modulation of unique or accessory regulatory cells including macrophages (Mregs), B cells (Bregs), and tolerogenic dendritic cells (tolDCs)
 - Novel inflammatory pathways/targets in tissue-resident innate, parenchymal, and stromal cell populations including fibroblasts, stem/tissue progenitors, neutrophils and macrophages

Out-of-scope: cell and gene therapies