**Technology Development Fund (TDF)**

**2022 Proposal**

(This proposal should not exceed 10 pages total)

The **Pilot Grant** is awarded annually and provides **up to $50,000** to advance early stage technologies in the validation or proof-of-concept phase.

The **Technology Development Grant (TDG)** is awarded annually and provides **up to $150,000** to advance later stage technologies, where the concept has been proven.

The awards can be used for 1) prototype development, 2) medicinal chemistry, pharmacokinetic/ pharmacodynamic or animal efficacy studies for potential therapeutics, 3) collection of human clinical data, and 4) other advanced pre-commercial research.

**Approximately 70% of the award must be spent through outside contract research organizations (CROs)** – this includes the internal ARCH facilities – who will work with the principal investigator and TIDO to further develop the technology. Award recipient is required to develop a detailed, mutually acceptable budget after the presentation to the advisory board.

**Other TDF eligibility criteria are listed in the “TDF Policies and Guidelines” found at** <http://tido.childrenshospital.org/technology-development-fund/grants/>

**Abstract**

Provide a brief ***non-confidential*** description of the technology/product concept, medical need (i.e. disease area and target patient population) and the project’s goals
(200 word limit – should not expand beyond this page)

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**Project Summary**

(1-page limit - should not expand beyond this page)
Provide a brief, high-level description of the research/project

1. Describe:
	1. Clinical need or problem to be solved, including current standard of care.
	2. Shortcomings/limitations of current solutions and products available in the space.
	3. Expected outcomes and impact of the proposed project
	4. How the outcomes will add value to the technology? Will this product change the clinical workflow? If so, how?

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1. Identify the next steps toward commercialization
	1. Potential product development obstacles (e.g. regulatory, reimbursement, technical, competition, etc.)
	2. List potential sources identified for additional funding
	3. Outline plans for finding (a) commercial partner(s).

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**Current Status of the Technology/Most Recent and Relevant Data**

(This section will be kept confidential)

1. Describe the current status of the technology. Please include your most relevant data.

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| --- | --- | --- |
|  [ ]  *in vitro* | [ ]  *in vivo* | [ ]  Other |

Current data is in (check all that apply):

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2) Do you currently have access to the samples/testing materials/users required for technology validation under this grant, or will you need to collect cell lines/tissue samples/patient or physician feedback in order to evaluate the product?

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**Project Plan**

Provide a detailed description of the proposed project, as well as preliminary studies and result.
**\*Note:** 70+% of the TDF funding award is designated for project performed by Contract Research Organizations (CROs) , including the internal ARCH facilities, who will work with the PI and TIDO to further develop the technology.

**\*\*Note:** Funds **cannot** be applied towards the purchase of equipment, computers, travel, or PI salary support at BCH or that of a collaborator at another institution

1. **Specific Aim 1**
	1. ***Proposed work***Be sure to emphasize the novelty and risks associated with the project.
	Reference any key literature.Click or tap here to enter text.
	2. ***Expected milestone and results***
	Please explain how the milestone (i.e. strategy, key experiments and goals before moving forward) will move the project towards its commercialization goals.
	Click or tap here to enter text.
	3. ***Proposed location for work*** (BCH/CRO/subcontractor)
	If the CRO has not yet been identified yet, please specify which aspects will be outsourced.Click or tap here to enter text.
	4. ***Fee/cost*** (Click below to enter amount)
	$0.00
	5. ***Proposed budget***(includes supplies, reagents, and animals allocated towards the project)
	Click or tap here to enter text.
2. **Specific Aim 2**
	1. ***Proposed work***Be sure to emphasize the novelty and risks associated with the project.
	Reference any key literature.Click or tap here to enter text.
	2. ***Expected milestone and results***
	Please explain how the milestone (i.e. strategy, key experiments and goals before moving forward) will move the project towards its commercialization goals.
	Click or tap here to enter text.
	3. ***Proposed location for work*** (BCH/CRO/subcontractor)
	If the CRO has not yet been identified yet, please specify which aspects will be outsourced.
	Click or tap here to enter text.
	4. ***Fee/cost*** (Click below to enter amount)
	$0.00
	5. ***Proposed budget***(includes supplies, reagents, and animals allocated towards the project)
	Click or tap here to enter text.
3. **Specific Aim 3**
	1. ***Proposed work***Be sure to emphasize the novelty and risks associated with the project.
	Reference any key literature.Click or tap here to enter text.
	2. ***Expected milestone and results***
	Please explain how the milestone (i.e. strategy, key experiments and goals before moving forward) will move the project towards its commercialization goals.
	Click or tap here to enter text.
	3. ***Proposed location for work*** (BCH/CRO/subcontractor)
	If the CRO has not yet been identified yet, please specify which aspects will be outsourced.Click or tap here to enter text.
	4. ***Fee/cost*** (Click below to enter amount)
	$0.00
	5. ***Proposed budget***(includes supplies, reagents, and animals allocated towards the project)
	Click or tap here to enter text.
4. For additional aims, please copy format above and list.

**Additional Funding Sources**

Prior, current, and pending sources of support for proposed project.
(e.g. FTE, space, funding, internal resources, etc.)

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**Commercialization Potential**

Provide a list of all commercial uses for your technology, its potential advantages over existing products,
and potential commercialization partners (1-page limit)

For clinical projects, provide information on the potential impact of your technology on the current standard of care and industry norms. Identify end user, barriers for adoption, regulatory issues, payor and billing codes.

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**Intellectual Property**

List any patent applications or issued patents you may have for this project.
**\*Note:** If no patent information is available, please provide the date your [Invention Disclosure](https://tido.childrenshospital.org/wp-content/uploads/2017/08/ipo_invent_disc_form2-1.doc) was submitted to your Licensing Manager. Please reach out to us at TIDO@childrens.harvard.edu if you do not know who your Licensing Manager is.

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**The Team**

Provide a short bio (URLs to bios are acceptable) for the Principal Investigator(s) and a list of all the participants (Boston Children’s Hospital and external, including current or anticipated CROs and PIs at other academic institutions)

Please include each individual’s:

* Expertise
* Proposed contribution to the project
* Responsibility for key tasks, milestones, etc.
	+ Who will be reporting requirements to and leading communications with the TDF Team?

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**Publications**

Provide\* 1-2 key publications
\*Send PDFs along with the proposal

**Potential Conflicts of Interest**

We may need to contact experts external to BCH in order to discuss your technology in a non-confidential manner.

* Are there individuals you’d like to suggest we speak to in regards to your technology?
* Are there individuals we should not contact? If so, please explain why.

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