



STDR
Singapore Therapeutics
Development Review



Agency for
Science, Technology
and Research
SINGAPORE

STDR GRANT CALL LAUNCH & ATTRIBUTES OF STRONG APPLICATIONS

STDR Coordinating Office
Sep 2023

In partnership with:



STDR Grant Call Launch

STDR Pre-Pilot & Pilot (Sep) Launch Dates and Admin Notes



Call for Pre-Pilot & Pilot Applications

- **11 Sep 2023:** Launch of 2023 (Sep) grant call on iGrants
- **26 Oct 2023, 5pm:** Deadline for submissions of applications

All applications must be endorsed by the IEO office and Research Director.



Eligibility criteria

The Lead Principal Investigator (PI) should:

- a) Hold at least a 0.7 FTE primary appointment in a Singapore publicly funded research/ tertiary institution
- b) Have the relevant scientific/technical background and necessary experience to direct the project being supported by the grant.

Post-doctoral researchers should submit a letter from their supervisor declaring that:

- a) The supervisor supports the application
- b) The contract of the post-doc covers the entire STDR grant period
- c) The grant body funding the post-doc is agreeable to the STDR application (if relevant).

(Exceptions to the eligibility criteria will be considered on a case-by-case basis.)

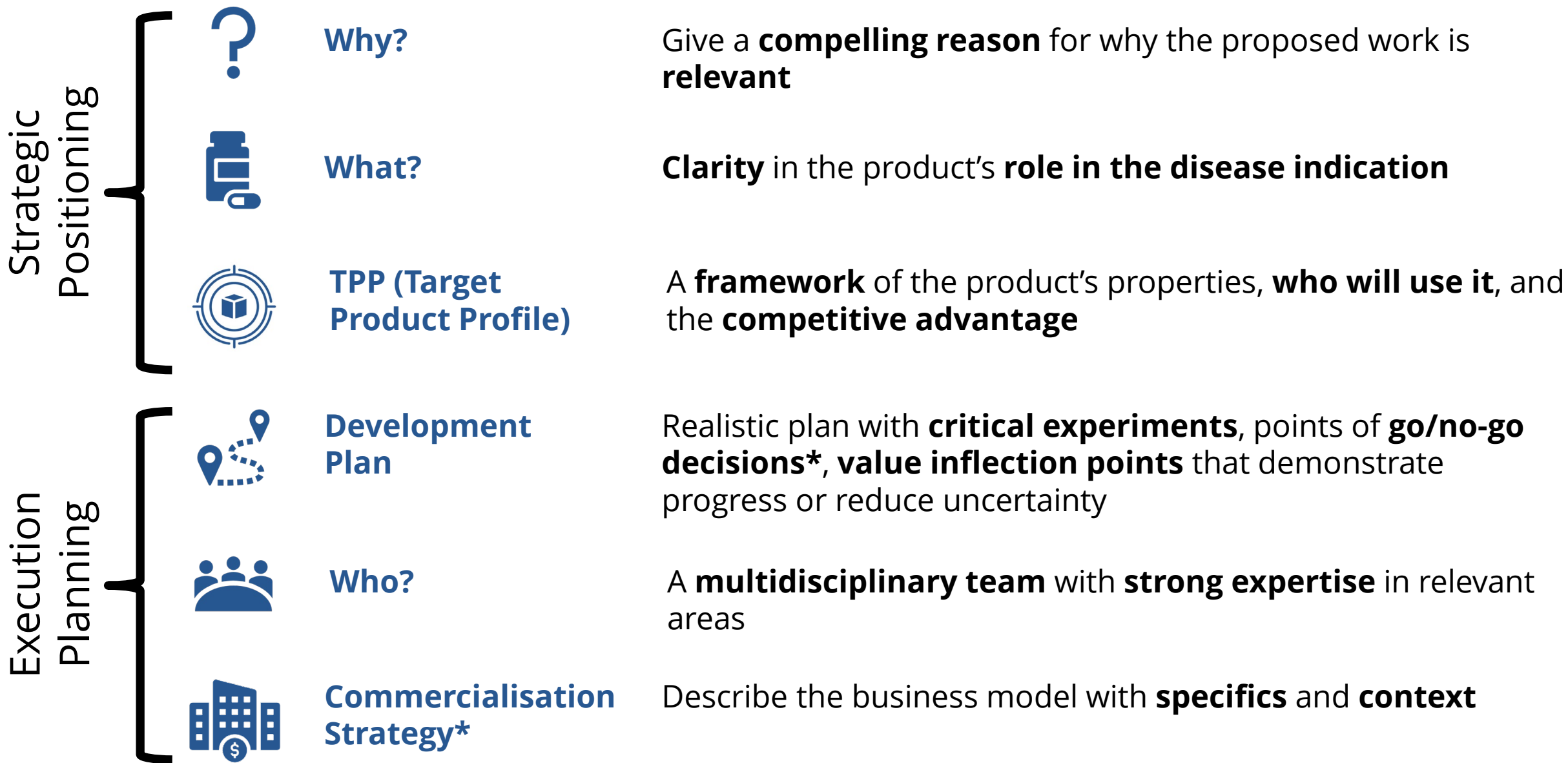
Overview of STDR-Funded Projects

No.	Characteristics of Projects	Pre-Pilot Stream 1	Pre-Pilot Stream 2	Pilot
1	Grant Quantum & Duration	\$S100K, 1 year		\$S830K, 2 years
2	Maturity	Earlier stage, exploratory and proof-of- concept projects with some preliminary data		Mature projects validated to a certain degree
3	Type(s)	Single-asset	Platform technologies	Both single-asset & platform technologies
4	Stage(s)	Target validation	-	Target validation* to pre-clinical work
5	Examples	<ul style="list-style-type: none"> • <i>Development and functional validation of a novel target gene for XXX Disease</i> • <i>Novel Biomarker and therapeutic target in xyz indications</i> • <i>Validating the tractability of XXX as a target for antibody therapeutics</i> 	<ul style="list-style-type: none"> • <i>Generalisable combinatorial screening platform for unbiased interaction discovery</i> • <i>Microfluidics for High-throughput Antibody discovery against XXX</i> • <i>XXX cell-derived cancer immunotherapy platform</i> 	<ul style="list-style-type: none"> • <i>Development of a first in class therapeutic compound for the treatment of xyz indications</i> • <i>Development of a proprietary T cell platform for cancer immunotherapy</i> • <i>Novel antibody against XXX cancer</i>

* For Pilot projects, target validation could include projects which had the target already validated in a certain indication and are currently exploring the target validation for secondary indications.

Attributes of Strong Applications

General Attributes of Strong Applications



* More applicable for STDR Pilot Applications

Attributes of Strong Applications- Single Asset

Pre-Pilot Stream 1 (Target Validation)



Clear Target's Role in Disease

- **Consistent** and **robust** data
- Studies in **human** tissues/samples
- *In vitro/ In vivo* **models**
- Landmark studies **replicated** (if applicable)
- Potential **safety issues** identified/mitigated
- Potential **biomarker** is a plus



Strong Medical Need

- Understanding of current standard of care (**SOC**) and **gaps**
- Clear explanation on how to **address unmet need and gaps**



Competitive Analysis

- Description of **competing therapies** and **competitive space**

Pilot (Single Asset)



Research & Scientific Merit

- Efficacy against a **validated target** with strong hypothesis of **MoA**
- Peer-reviewed publications with **scientific insight into prior work**
- Acceptable **safety profile** or plan for toxicity study



Strong Medical Need & Market Evaluation

- Address an **unmet need**
- **Differentiated** and **significant** benefit to current standard of care
- A **global market** and many opportunities preferred



Clear Development Path

- Clarity of a **path** towards **first in-human use**
- Knowledge of **regulatory path**



Strong Commercialisation Plan

- Strong opportunities to create **intellectual property**
- Possibilities of **strategic partnerships**

Attributes of Strong Applications- Platform

Pre-Pilot Stream 2 (Platform Development)



Research and Scientific Merit

- Demonstrate **Proof-of-Principle** to show that the platform is capable of making multiple products/services.
 - Demonstrate the **underlying scientific principle or concept**
 - **Theoretical/ basic experimental** level
 - Address fundamental question of '**Can it work?**'
 - Validate the **theoretical basis**



Strong Medical Need & Market Evaluation

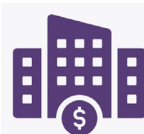
- Address **unmet medical need**
- **Critical attributes** of the platform
- Advantages and **differentiating factors** of the platform

Pilot (Platform)



Research and Scientific Merit

- Demonstrated **Proof-of-Concept** to show first product application of the platform.
 - Demonstrate **practical feasibility and applicability**
 - More **advanced development and testing**, often leading to **prototype** creation
 - Address the question of '**Can it work in the real world, and is it worth pursuing further?**'
 - Validate **practical implementation**



Commercialisation Strategy

- Identification of the **risks**
- What is the **value chain** and who is the ultimate **user or payer**
- What is required to **scale** the platform

Available Resources

Target Product Profile

<https://learn.marsdd.com/article/defining-your-target-product-profile-therapeutics/>

Competitive Analysis

<https://founderledbio.com/ecosystem/biotech-industry/>

<http://drugmap.idrblab.net/>

Book

Adaptive Innovation: An Entrepreneur's Guide to Technology Innovation

CATEGORIES
A curated, open-source set of community-built resources to help founder-led biotechs learn and thrive.

FOUNDER-LED BIOTECH
by pillar + petri

Category	Description	Resources
Actively Building a Biotech	Hear from leaders today to be apart of building the future of biotech.	62 RESOURCES
Comp Bio	The future of biology is in computation.	12 RESOURCES
Discovery Tools	The tools you need to make research and scientific discovery easier in and out of the lab.	11 RESOURCES
General Knowledge	A wealth of knowledge across the scientific and biotech community.	39 RESOURCES
Industry Knowledge	The biotech industry is constantly evolving. Keep up with the latest industry specific knowledge with our list.	55 RESOURCES
Non-Dilutive Funding	Investing in the future of biotech, no strings attached.	6 RESOURCES

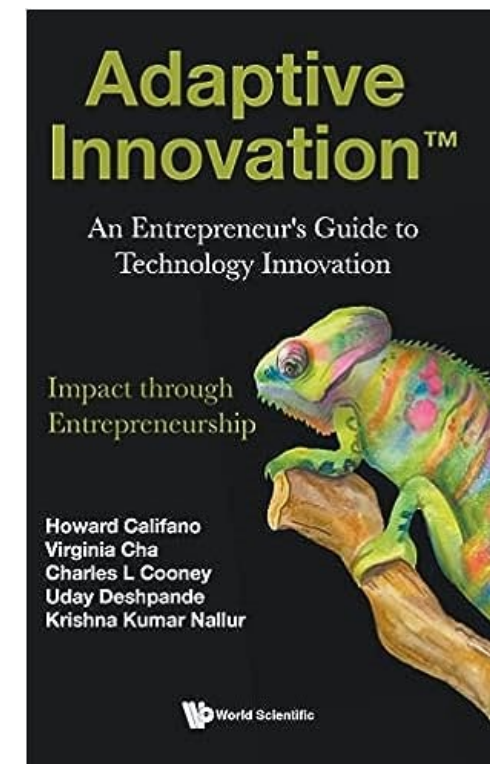
DrugMAP [drug mæp]
The Molecular Atlas and Pharma-Information of Drugs

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Please enter your keywords here

Try example: Pravastatin; Abiraterone acetate; Thyroid cancer ...





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THANK YOU

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