

TARGETS TO THERAPIES (T2T) PROGRAM: T2T VALIDATION CORE

PRE-PROPOSAL TEMPLATE

- 1) Please use the template below to create an executive summary of your experimental plan and upload a single PDF copy with your online submission.
- 2) Text should be no smaller than 11-pt font and not exceed **2 pages, including optional references.** You may delete any instructional text to save space.
- 3) Review the RFA pre-proposal Instructions linked [here.](#)

Principal Investigator:

Institution/Company:

Project Title:

Select the **target** and validation **gap(s)** your proposal will address.

T2T TARGET: STING1

Validation Gaps:

- Confirm STING1 activation in *in vitro* PD models and elucidate activation mechanisms.
- Demonstrate direct STING activation in PD patient samples, beyond IFN β production.

T2T TARGET: TREM2

Validation Gaps:

- Generate TREM2 clinical evidence in PD Patient Samples.
- Conduct TREM2 mechanistic studies in *in vitro* PD models.

T2T TARGET: TLR2

Validation Gaps:

- Define therapeutic intervention window for TLR2.
- Evaluate sTLR2 as a biomarker for patient stratification and disease progression.
- Support development and scaling of TLR2 occupancy assay.

EXPERIMENTAL PLAN	<p>Provide a detailed validation plan, including a brief description of:</p> <ul style="list-style-type: none"> • the models to be used (e.g., <i>in vitro</i>, <i>in vivo</i>, or <i>ex vivo</i> models, including patient-derived samples, add RRID# where known) • the key assays and techniques (e.g., biochemical, imaging, molecular, and functional assays) that will be employed to evaluate critical target endpoints such as target expression, function, and engagement. • the approach for data analysis, specifying statistical models (e.g., ANOVA, regression, Bayesian inference)
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	<ul style="list-style-type: none"> the use of controls and replicates to ensure data robustness and reproducibility.
OUTCOME	<ul style="list-style-type: none"> Define the key milestone or inflection point this project aims to achieve and its impact on filling the validation gap(s). Describe any resources that will be leveraged or generated along with their availability status.
PROGRAM SUPPORT	Identify areas where MJFF can provide support (e.g., expertise, model advice, generation of tools & reagents, or PD patient samples).
RISKS	Highlight the primary risks associated with the project and potential mitigation strategies.
TIMELINE	Provide an estimated timeline for project completion, including key milestones.
INTELLECTUAL PROPERTY	Describe any intellectual property considerations or restrictions (e.g., freedom-to-operate) that may impact data or resource sharing with the broader PD community.
BUDGET	Present a high-level budget estimate, including anticipated costs.