Promptable Panels: AI-enabled Natural Language Method for Cytometry Panel Design in Immunotherapy Clinical Trials

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Teiko

Background

Conventional panel design requires extensive coordination between translational scientists and laboratory teams, introducing delays that slow translational research.

Promptable Panels streamlines this workflow by enabling scientists to independently configure assays using natural language from a curated library of validated markers, cutting turnaround time in half.

Available now at **app.teiko.bio/design.**

Key Features

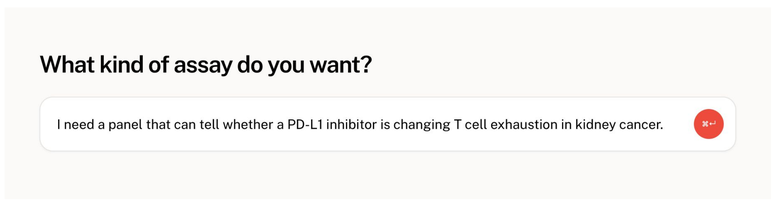
- Build an assay using natural language.
- Pull from Teiko's library of validated populations and functional markers.
- See the assay, channel count, and estimated price per sample update in real time.
- Receive AI-guided suggestions for your assay.
- Add custom markers for Teiko to review without interrupting assay design.

Coming Next

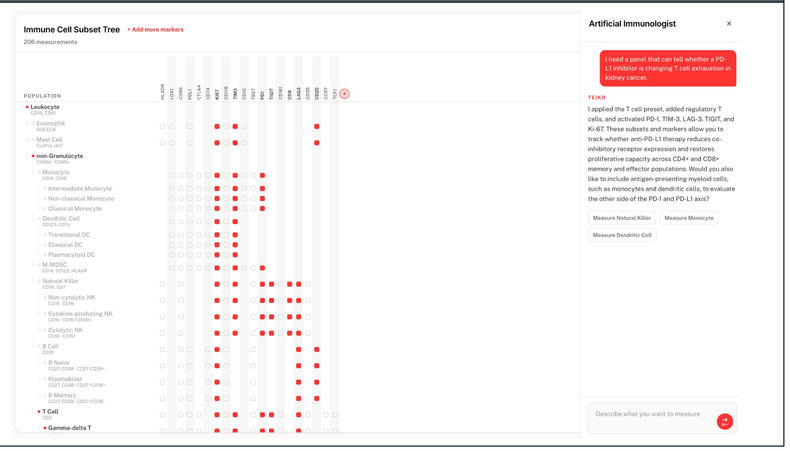
- Teiko's validated population and marker library is always being updated.
- Generate panel recommendations from study objectives and disease indications.
- Upload a protocol or biomarker plan to create a draft assay.
- Connect the design studio the AI of your choice.
- Add a price limit to keep your panel within budget.

Panel Design Workflow

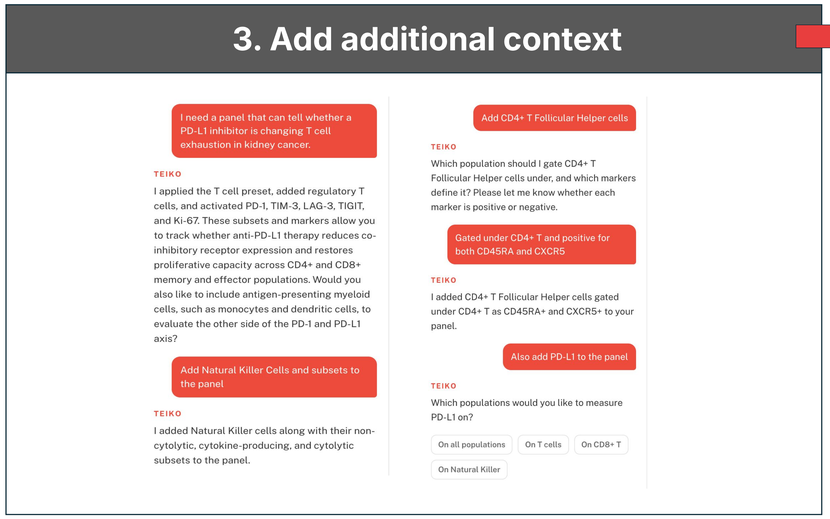
1. Describe your desired panel



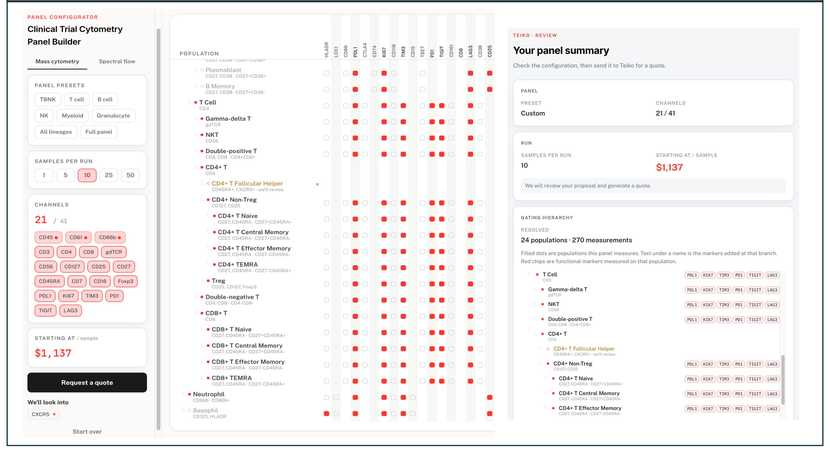
2. See your panel draft



3. Add additional context



4. Review panel and submit to Teiko



Save Time Designing Cytometry Panels

Panel	Before	After
Custom 41-43 marker panel	4 hours	1 hour
Custom 15-marker TBNK panel	1.5 hours	0.75 hours
Custom 10-marker T Cell panel	1 hour	0.25 hours
Custom 10-marker B Cell panel	1 hour	0.25 hours

Data Flow

1 Message
The scientist writes to the chat beside the panel. A study description, a question, or a change to make in the panel.

↓ Thread

2 Copilot
The service sends the thread to the model.

↓ Classify

3 Classify
The model reads the newest message as one of four kinds.

- **Command** — Pulls the library, then edits the panel.
- **Description** — Pulls the library, edits the panel, then explains.
- **Question** — Answers the question and makes edit suggestions.
- **Unclear** — Provides directions to edit the panel.

↓ Pull library

4 Teiko library
Markers and populations Teiko already runs.

- **Populations** — The cell gating hierarchy
- **Markers** — Markers used to classify functional state
- **Presets** — TBNK or population-focused backbones

↓ Match

5 Panel and reply
The panel is updated in real time to match what is described in the chat.