



SCIENTIFIC RESEARCH / PRODUCT OVERVIEW

Combination Intelligence Workbench

CIW - also referred to as the
Combination Intelligence Workspace

Make the next research decision worth testing.

A governed research Wizard designed to connect approved evidence, compare combination hypotheses and turn expert review into a traceable plan for the next experiment.

CONNECT

Bring internal research and permitted external evidence into one scoped program.

COMPARE

Assess mechanisms, exposure, safety and feasibility with visible assumptions.

ADVANCE

Prepare a reviewed shortlist, experiment plan and scientific dossier.

Licensed Wizard or scoped Collaboration Wizard
cadenome.ai

A clearer path from evidence to action.

CIW is designed for research teams deciding which combinations deserve further investigation, what evidence supports them and what must be tested next.

FEATURE	ADVANTAGE	BENEFIT
Evidence linked to claims Source passages, evidence grades, contradictions and gaps.	Keeps each material statement connected to its supporting evidence and limitations.	Researchers can assess why a hypothesis deserves attention and where more work is needed.
Specialist scientific modes Mechanisms, exposure, interactions, toxicology and formulation.	Brings relevant scientific perspectives into the same bounded workflow.	Teams can see promising rationale and potential blockers before selecting experiments.
Explainable combination scoring Visible components, assumptions and uncertainty.	Uses defined calculation rules to compare candidates within the program.	Program owners can defend priorities and identify which assumptions change the ranking.
Controlled scenario exploration A Combination Sandbox with a retained baseline.	Compares approved changes without rewriting the original research record.	Teams can explore alternatives and see the effect of evidence, exposure or feasibility constraints.
Internal research adapters Authorized interfaces to agreed data sources and platforms.	Uses collaborator knowledge alongside permitted external evidence.	Prior experiments and institutional expertise can inform the next research decision.
Expert review and release gates Scientific and safety review tied to an exact version.	Requires the necessary checks and approvals before controlled release.	Collaborators receive a dossier with a visible review state and a documented decision basis.
Versioned research outputs Shortlists, experiment plans, dossiers and audit records.	Preserves the path from question and evidence to reviewer decisions.	Teams and contract research organizations share a traceable handoff.

The intended business value: less time reconstructing rationale, clearer cross-functional review and better focused experimental investment. These outcomes should be measured in a scoped pilot.

One question. A governed research program.

CIW organizes the work around a bounded disease, target, compound, formulation or hypothesis question. Researchers define the scope; specialist analysis and review follow that scope.

1

Define the research question

Set the candidate list, biological context, constraints, source plan and required reviewers.

2

Connect and organize evidence

Retrieve authorized material; link claims to sources and distinguish evidence strength, contradictions and gaps.

3

Analyze the combinations

Examine complementary mechanisms, redundancy, exposure, interactions, toxicity and formulation considerations.

4

Compare the next experiments

Apply defined scoring rules and explore approved scenarios with uncertainty and assumptions visible.

5

Verify and review

Check claims, logic, permissions and safety; route the relevant version to the required experts.

6

Release and learn

Issue the approved research dossier and experiment plan. Bring assay results back for reviewed updates.

FIVE SHARED MODULES

Programs

Objectives, hypotheses, milestones and program policies.

Evidence

Source library, claims, grades, contradictions and gaps.

Reviews

Scientific, safety, methodology and claims review.

Dossiers

Rationale, synthesis, experiment plans and limitations.

Audit

Versions, route decisions, provenance and release history.

Built on the NPM core. The NPM Router directs permitted work; ICM (Interpretable Context Methodology) supplies authorized context. Approved AI models execute specialist tasks; verification and human approval govern release.

Connect CIW to your research environment.

An adapter is an agreed interface between a collaborator's systems and the CIW workflow. It maps approved data, identities and references into a shared research program.

YOUR INTERNAL RESOURCES

Electronic lab notebooks (ELN), laboratory information systems (LIMS), research files and assay data.



AUTHORIZED ADAPTER

Connect, map and retrieve only the agreed records and fields under approved access rules.



CIW RESEARCH PROGRAM

Evidence, scientific analysis, review and controlled research outputs.

Approved information moves into the scoped workflow. Controlled results return through the agreed export or API route; writeback requires explicit permission.

Use the right connection

Versioned APIs and webhooks where supported, or governed file imports and exports for an initial pilot.

Keep access scoped

Map user, organization, role, program and source permissions. Begin with read-only access where practical.

Preserve meaning and lineage

Retain source IDs, versions, units, protocol references and evidence anchors so findings can be traced back.

Agree data and model choices

Define data location, transfer scope, retention and confidentiality. Select approved models through a provider-neutral gateway.

Return useful research artifacts

Deliver approved dossiers, evidence references, candidate matrices and experiment packets to agreed destinations.

Your platform remains part of the research process.

Adapters are scoped and validated per collaborator. Each connection depends on the source system's interfaces, data rights, security requirements and the agreed pilot scope.

Give every next step a documented reason.

CIW is designed to create usable research artifacts for scientists, program owners, specialist reviewers and external research partners.

PRIORITIZE

An evidence-linked shortlist

Candidate combinations with their rationale, component scores, uncertainty, exclusions and unresolved concerns.

UNDERSTAND

An evidence and risk map

Supporting and conflicting claims, evidence classes, data gaps, interaction findings and feasibility constraints.

TEST

An experiment-ready plan

Objectives, biological model, controls, endpoints, analysis approach and decision thresholds for expert review.

SHARE

A controlled scientific dossier

Approved research artifacts with source lineage, reviewer decisions, version history and release records.

ILLUSTRATIVE RESEARCH SCENARIO

A translational team wants to compare a pharmaceutical candidate with a defined natural-product preparation for a preclinical program. CIW would organize the approved literature and internal assay records, examine the mechanism and exposure assumptions, surface interaction risks and compare the bounded hypotheses.

The intended result is a documented advance, hold, reject or redesign decision, with the evidence gaps and next experiment made explicit. This scenario is illustrative; outcomes are assessed during the pilot.

Scientific discipline matters. A ranking is a within-program research comparison. It is not a probability of clinical success, and mechanistic complementarity does not establish experimentally measured synergy.

License the Wizard. Or build a collaboration.

A Wizard is a guided scientific workflow configured around the research question, approved resources, specialist capabilities, review responsibilities and required deliverables.

ORGANIZATIONAL USE

Licensed CIW Wizard

For an organization seeking a repeatable CIW capability for agreed research programs.

Scope the permitted users, workflows, adapters, deployment profile, model access, support and validation requirements in the licence.

SCOPED RESEARCH ENGAGEMENT

Collaboration Wizard

For a defined research objective undertaken with Cadenome.

Agree the question, candidate set, resource access, specialist responsibilities, deliverables and milestones. Define confidentiality, background IP and ownership of results in the collaboration agreement.

START WITH ONE PROGRAM

- 1. Define the decision.** Choose a bounded question and the artifact the team needs.
- 2. Agree the resources.** Identify internal systems, permitted sources and an initial adapter scope.
- 3. Set the review rules.** Name scientific and safety reviewers and define acceptance criteria.
- 4. Demonstrate the workflow.** Assess traceability, review effort, cycle time and usefulness of the experiment handoff.

Bring a research question. Identify the evidence you can share.
Discuss a CIW licence, design-partner pilot or collaboration.

cadenome.ai

SCOPE AND SOURCE BASIS

This overview describes the CIW design and proposed capability scope as of 7 October 2026. The supporting specification is an implementation candidate; production availability, adapters and deployment options require confirmation during scoping. The agreement defines deliverables and acceptance criteria.

Source basis: Cadenome, *Proposed NPM Standalone Router Platform & Combination Intelligence Workbench, Product Requirements Specification v1.0*, 25 August 2026, especially sections 3, 6, 11-14, 16 and 18; supplied CIW workflow schematic. Source documents were provided by Cadenome.

Research use only: CIW is not intended for patient-specific diagnosis, prescribing or autonomous clinical action.