

VOYNICH MANUSCRIPT

Master Evidence, Findings, Oddities & Decryption Audit

Backward/forward synthesis of the preserved research archive

Evidence cutoff: 21 September 2026

Backbone: six-pass 139-entry review + Tests 152–169 + SpectralLock/order reconstruction state

Standard: no semantic promotion without a receipt; falsifications retained, not erased.

IMPORTANT: “SUPPORTED” below means supported inside the recorded test design and archive. It does not mean the Voynich Manuscript has been independently deciphered or that a historical plaintext has been recovered.

1. Executive evidence state

The archive supports a non-random, highly constrained, line-local writing system with reusable internal material, context-sensitive surface realization, local edge-to-edge dependence, register/domain effects, and a compact analogical mechanism. The record does not yet support a literal dictionary word, a translated sentence, a proven source language, authorship, a complete physical glyph decomposition, or a unique original reading order.

The Sept. 9 six-pass audit records 139 major entries: 43 supported structural/descriptive findings, 44 qualified findings, 37 rejected claims, 6 retracted claims, 7 controls, 1 unscorable branch, and 1 grouped open-gate entry. That audit reports rechecking 397 indexed decision records and references an earlier inventory of 1,137 hash-unique files and 853 verified SHA-256 entries. These counts are archive-reported provenance, not a fresh rerun of every historical computation.

2. What matters most for a future decryption

- **Physical newline is real structure:** True newlines disrupt the within-line dependency more than matched pseudo-boundaries. Any decryption model that ignores line reset is fighting the strongest boundary result.
- **Reusable cores survive outer changes:** The same internal BODY/core can appear under multiple outer realizations. This is one of the strongest reasons to treat surface words as contextual realizations rather than independent plaintext tokens.
- **Previous RIGHT conditions next LEFT:** The local handoff is directionally asymmetric and survives held-out testing; it is separate from internal Formation. It is not itself proof of left-to-right writing order.
- **Internal realization is bilateral/contextual:** Exact internal member choice depends on both neighboring contexts; global one-size expansion tables fail.
- **Compression is partly physical:** Later tests show line load/position pressure predicts compact vs exposed boundary forms. That separates writing-economy from the internal linguistic/notational calculus.
- **A compact operational alphabet exists:** Test 153 promotes a 12-state operational representation: six internal permutations $\times$ two boundary modes, while rejecting literal pen-motion semantics and a universal deterministic selector.
- **Analogy beats family memorization:** Tests 158–162 show transferable constituent structure; a tiny human-executable outer-frame analogy rule reaches about 66% on untouched folios, above the machine-neighborhood result.
- **Outer frame X...Z is unusually important:** Test 162 shows X and Z dominate analogy; Y is more replaceable. Test 163 then shows Y is a real frame-conditioned variable/subclass but not a fixed global algebraic operand.
- **Y signal is formation-side, not downstream handoff:** Tests 164–169 progressively reinterpret Y: it affects current entry/formation and coarse RIGHT-family choice; it does not independently select downstream handoff, domain, or a universal grammatical class.
- **Finite Y classes fail:** A 2–4 class Y paradigm and a 2–4 flat RIGHT-edge taxonomy both fail. The useful organization is hierarchical/graded and identity-sensitive.
- **Latin is only a comparator lead:** After stripping the Voynich-specific Handoff layer, medieval Latin is the leading tested historical Formation comparator. It is not a language identification, and the coarse BODY $\times$ X graph is not uniquely Latin-shaped.
- **Semantics remain the main locked gate:** Structural Gate 2–4 work is strong; the first independent semantic crib remains unpassed. Candidate plant/label bridges must not be reported as translations.
- **Current binding/order is not fully original:** SpectralLock/codicological reconstruction supports several order constraints and cross-quire signals, but no method yet uniquely recovers one complete original semantic reading order.

3. Evidence hierarchy: what is closest to “proof”

Tier	Evidence class	Examples	Interpretation
A	Replicated / held-out structural	newline reset; reversible codec; RIGHT→LEFT handoff; contextual internal realization; analogy transfer	Strongest internal evidence. Still structural, not semantic.
B	Prospective compact mechanism	12-state operational alphabet; pressure-sensitive compression; X...Z outer-frame analogy	Plausible human-executable writer-side mechanism.
C	Qualified historical/linguistic comparator	Latin Formation lead; medieval engineered orthography analogues; translation/recopy mediation	Narrows architecture; does not identify plaintext language.
D	Semantic/codicological lead	selected BODY anchors; Q-A-U paradigms; plant-label candidates; reconstructed bifolio constraints	Useful targets, but must remain candidates until independent validation.
F	Rejected/retracted	care/caring English; Pleiades promotion; universal palindrome; direct simple romanization; exact original-order claims	Do not recycle these as evidence.

4. The six surviving writer-side rules

R1 — LINE RESET: Physical newline interrupts/resets local transition state.

R2 — CORE PRESERVATION: A reusable internal lexical/conceptual BODY survives contextual surface changes.

R3 — EDGE HANDOFF: Within a line, the previous token’s RIGHT-side state biases the next token’s LEFT realization.

R4 — CONTEXTUAL INTERNAL REALIZATION: Conserved constituents are arranged through state- and analogy-sensitive realization; later tests refine this toward X...Z construction frames with a Y member/subclass.

R5 — REGISTER SHIFT: Label/citation versus running-text contexts can select different realizations of the same internal material.

R6 — DOMAIN SPECIALIZATION: Small derivational changes can correlate with domain/section specialization; literal meanings remain unresolved.

No later test through Test 169 earns a seventh writer-side rule. Later tests refine Rule 4 and keep pressure-sensitive compression and edge handoff distinct.

5. Post-freeze mechanism addendum: Tests 152–169

Test	Focus	Current earned statement
152	Length/load compression	Supports a pressure-sensitive compression layer tied to line load/position; compression is not simply the same mechanism as internal reordering.
153	Operational alphabet	Promotes a compact 12-state representation (6 permutations × 2 boundary modes); rejects literal historical pen-motion names and a family-independent deterministic selector.
154	Family zero/default	Supports family-specific/default orientation as a useful baseline; exact operation selection remains contextual.

155	Handoff reorder	Rechecks handoff after internal reordering; preserves a distinct local handoff layer.
156	Directional handoff	Supports previous-RIGHT → current/next-LEFT directionality; reverse direction does not explain the effect comparably.
157	Latent state	Rejects recovery of a cheap common finite hidden-state machine. The visible behavior is not reduced to one tiny Markov state table.
158	Formulaic linguistics	Promotes compositional operational calculus; reusable constituent identities + role/state can outperform explicit family lookup on untouched folios; compression remains separate.
159	Operand type	Disfavors a pure context-free syllable/chunk model; supports morphological/grammatical/abbreviation-operator or mixed notational behavior; one fold reversal blocks a universal fixed grammar.
160	Anomalous regime	Section does not explain the anomalous fold; the regime shift is not reduced to a simple section effect.
161	Analogical neighborhood	Promotes output-free structural analogy: 52.92% prospective accuracy vs ~38% state baseline; shuffled-profile control fails.
162	Minimal human analogy	Promotes a four-step human-executable rule dominated by matching outer X...Z frame; ~65.85–66.00% prospective accuracy, all folds positive.
163	Y variable	Promotes X...Z construction frame with frame-conditioned Y variable/subclass; rejects Y as a context-independent algebraic operand.
164	Y channel	Promotes Y as a frame-conditioned functional/entry-side selector; rejects Y as downstream handoff, section/domain, or general register selector.
165	Finite Y paradigm	Rejects a clean 2–4 class Y paradigm; Y remains graded/identity-sensitive within frame.
166	Continuous Y geometry	Promotes low-dimensional graded Y tendencies but not one universal scalar ordering or deterministic paradigm.
167	Functional opposition	Finds one prospective S2/S5 ↔ S3/S4 graded contrast but does not license tense/case/number or other semantics.
168	Structural reinterpretation	Reinterprets the 166–167 axis as current formation/RIGHT-edge preference rather than an independent grammatical discovery.
169	Raw S2 RIGHT taxonomy	Rejects 2–4 flat RIGHT classes; promotes a hierarchical coarse RIGHT-family structure. Y predicts coarse/exact RIGHT identity but not tested within-family subtype selection.

6. Current codicological / SpectralLock order state

The Sept. 20 reconstruction state explicitly refuses to fabricate a unique complete original order. Its strongest constraints are:

- HIGH — Q9 f67/f68: Current fold/binding orientation is not original; prior stitching/fold evidence supports an alternate binding crease.

- HIGH — Pharmaceutical bifolia: Q19 pharmaceutical bifolia f99/f102 and f100/f101 form a coherent group with Q15 pharmaceutical bifolium f88/f89; external codicological analysis places the Q19 pair before Q15 pharmaceutical bifolium.
- HIGH — Q20: Missing central bifolium f109/f110 belongs inside the recipes gathering between f108 and f111 in reading sequence.
- MODERATE — Q13 biological: Bifolio-level text similarity strongly supports two subclusters: {f76/f83,f77/f82} and {f75/f84,f78/f81,f79/f80}; this is consistent with prior claims that Q13 may contain two topical blocks.
- MODERATE — Herbal bifolia: Bifolio-level lexical/hand signals cross present quire boundaries repeatedly, supporting that present herbal bifolio order is not the planned production order.

Unknown material is intentionally left unknown:

- f59-f64: unknown
- f91-f92: unknown
- f97-f98: unknown
- f74: unknown; physical position known, subject cannot be safely reconstructed
- f12: unknown; likely same general herbal-A context from surrounding bifolio metadata, but not asserted
- f109-f110: unknown text, but section placement is recipes with high confidence

Order-method stack recorded in the state file: SpectralLock whole-manuscript RGB anomaly screening; pigment-controlled rerun; recto/verso mirrored bleed-through tests; strict open-field residual isolation on p143-144; all-to-all scan-level similarity tests; IVTFF bifolio/hand/language/illustration metadata analysis; bifolio-level lexical similarity analysis; codicological constraints from quire and folio numbering.

Critical limit: No method run so far can uniquely determine a single complete original semantic reading order of all surviving bifolia. The file therefore records only supported constraints and does not fabricate unresolved order.

7. High-value oddities and asymmetric clues

- **Line-locality:** The dependency resets at physical newline rather than behaving like ordinary continuous prose across line breaks.
- **Two different maps:** Formation (current-token realization) and Handoff (current RIGHT × next RIGHT/LEFT constraint) do different jobs; collapsing them loses signal.
- **Reversible long/short structure:** Test 048's true pairings reconstruct under leave-one-pair-out while random pairings collapse, making arbitrary post-hoc pairing unlikely for that component.
- **Exact identity matters:** Broad classes/frames carry some information, but exact stems/families repeatedly outperform coarse classes. This argues against over-normalizing the script.
- **Outer-frame dominance:** In Test 162, matching X/Z is much more useful than matching Y. The manuscript behaves more like construction frames with replaceable interior members than symmetric three-part algebra.
- **Current-edge vs next-edge separation:** Y helps select current formation/edge class but not downstream handoff; local handoff remains its own channel.
- **Flat-class failures are productive:** Repeated attempts to reduce behavior to tiny finite class taxonomies fail. The surviving model is hierarchical, analogical, and partly identity-specific.
- **Section is not the master explanation:** Several hand/section/dialect hypotheses fail or remain qualified. The system appears shared across scribes/sections with variation rather than cleanly split into separate languages.
- **Historical analogues can imitate pieces:** Ormulum and medieval manuscript transmission controls demonstrate that engineered orthography/recopy can produce similar structural signatures, but none is a validated key.
- **Illustrations remain dangerous:** Image/topic cues repeatedly produced seductive but unstable semantic promotions. The audit specifically downgrades image-led claims unless independently anchored.

- **Order signal crosses current quire boundaries:** Bifolio-level lexical/hand similarities can cross current gatherings, consistent with rebinding/reordering; this is a codicological constraint, not semantic ordering proof.

8. Major things the archive has falsified

F001 — Early ABAD — REJECTED: The original full-English/209-page translation claim was not validated. No independently executable key and held-out plaintext validation supported it; later strict ledgers record zero translated sentences.

F003 — Early ABAD — REJECTED: 7, phi and 49 were not uniquely privileged under broader lag controls. Numeric/harmonic, Azriel/corkscrew and Madhava–Leibniz/ZD30 shape searches did not isolate reproducible plaintext.

F004 — Adaptive ZD30 — REJECTED: care/caring failed as English while its underlying paired-ending morphology survived structurally. Optimizing an English substitution can reproduce the pair; matched controls, reverse tests and anchor rediscovery did not validate that meaning.

F005 — Adaptive ZD30 — REJECTED: The v1.x candidate-language mapping program failed its full gates. English, Latin+Middle English, Old+Middle English, abbreviation tolerance and 229,691-form Middle English did not meet held-out coverage/composite requirements.

F007 — Adaptive ZD30 — REJECTED: Limited homophonic Middle English did not rescue the mapping. v1.14 had nominal $p=0.0348$ but 26.86% coverage and 73.14% uncertainty; the full gate failed.

F009 — Early compact grammar — REJECTED: That six-glyph core did not become an autonomous readable grammar. v3.1 failed complexity-adjusted sequential/second-order tests; the surviving interpretation is boundary-control information.

F016 — Morphology — REJECTED: Several attractive early shell and rhythm patterns did not survive reassessment. -edy<->-iin, literal ending AABA, rigid Q/A alternation and exact prefix×suffix shell grammar closed; physical ABAB remained mixed.

F020 — Directionality — REJECTED: A literal reciprocal/palindromic mechanism did not pass. A residual association exists, but the simple bidirectional8 borrowing model failed prospective gain; later rigid alternation and mirror tests also failed.

F023 — Internal realization — REJECTED: A universal small expansion table did not explain all short/long forms. Lexeme-specific pair identity mattered; global run-length insertion/deletion regularization failed.

F025 — Normalization — REJECTED: Aggressive transitive merging destroys information. Giant components erased lexical/domain specificity; an intermediate RF normalization also failed the no-domain-degradation gate.

F038 — Semantic corrections — RETRACTED: Q1 A1 is not a prospectively validated herb/botanical-drug meaning. Its proposed candidate classes were generated after seeing the same labels and domain evidence later reused for validation.

F040 — Semantic corrections — RETRACTED: The Pleiades claim is a seven-star visual-locus hypothesis, not a secure lexical referent. A1 A3 C1 recurs at f68r3, f1r, f113r, but the August31 audit explicitly withdraws secure lexical grounding. The structural recurrence remains.

F041 — External anchors — REJECTED: Obvious picture-name cribs repeatedly failed. Calyx V0026 failed prospectively; zodiac sign names and simple 1–30 ordinals failed; Sun/Moon did not yield distinct invariant lexical bodies.

- F042 — External anchors — REJECTED:** Duplicate pictures do not supply a reliable exact-label dictionary. f102r1/r2 have incomplete fragment labeling; fragment order cannot safely be converted into label number.
- F043 — External anchors — RETRACTED:** The alleged same-plant f18v<->f23r pair was a source-alignment error. Fragment212→f18v and 213→f23r are distinct correspondences. Deleting the invalid group removes the earlier aggregate referential signal.
- F055 — Sequence — REJECTED:** The simplest explicit semantic relation carriers failed. Bridge orientation, mediator, frame, two-handoff role substitution and anchored-order/bridge-contrast tests did not recover a portable semantic relation vocabulary.
- F059 — Earlier skeleton — REJECTED:** Ordinal-position residue did not pass transcription-independent complexity gates. CROSSWALK002 and paired002R remove the earlier provisional strengthening; association does not earn a seventh rule.
- F061 — Historical analogues — REJECTED:** Clm641/671 did not supply the Voynich key. The authenticated comparison distinguishes letter-substitution alphabets and ordinary recipe language from the proposed Voynich mechanism.
- F063 — Historical analogues — REJECTED:** A small global paragraph-engine inventory did not generalize. Engine sizes2–8 learned from first-half lines failed to predict second-half frames/payload classes with the required controls.
- F064 — Historical corrections — RETRACTED:** MEASURE→Pharma's initial pass was a software-gate error. The corrected run enforced the declared fold requirement and failed; the earlier pass is superseded provenance.
- F066 — Images and scribes — REJECTED:** Page texture and coarse whole-token image classifiers did not improve their frozen targets. These failures apply to page/token proxies, not to verified hook,dot,join or attachment-point semantics.
- F074 — Language screens — REJECTED:** Direct lexical Latin identification and proper-name glossing failed. Tests037/038 did not break lexical permutation ambiguity; Test042 failed direct Latin-inflection matching.
- F078 — Reversible realization — REJECTED:** A universal moved-A1 meaning and an external shell selector did not validate. Initial045 support is narrowed by046/047 failures and corrected044B; codec reversibility does not identify its selection mechanism.
- F087 — Reticule and direction — REJECTED:** A simple rotating four-phase state and added orientation did not earn a place. 107 worsens held-out prediction;109 orientation adds zero. T-frame remains page/layout geometry only.
- F095 — BODY-relation graph — REJECTED:** Stable English/Latin rendering labels do not identify the underlying relations. 126's copular/locative/etc assignments are model interpretations;128's100% category recovery uses the defining observed handoff and is not independent semantic validation.
- F097 — Language and scribes — REJECTED:** Distinct native languages by scribe or a section-conditioned lexicon were not established. 136C/136J failed their specified gains; this does not exclude every possible dialect or scribal-language influence.
- F100 — Source mediation — REJECTED:** Simple consonant stripping/romanization is not the missing layer under its test. 136M rejects that implementation; it does not exclude every transliteration or translated substrate.
- F102 — Bible branch — REJECTED:** Bible surface-order compatibility did not validate the proposed key. 136U:19/19 small samples fit a broad envelope, but only5/19 real orders improve on shuffled order; broad compatibility is not specificity.

F104 — Bible branch — REJECTED: The Bible-profile battery found confounds rather than a new source identification. 136Y–137E:compression-intensity, testament and boundary hypotheses fail; sample size matters and does not rescue the order failure.

F105 — Hebrew/Greek and number branch — REJECTED: A simple exhaustive permutation-wheel/gematria-style structural mechanism was not supported. 137F finds depleted exact reversals; direct gematria remains unidentifiable without a justified number mapping. No theological conclusion follows.

F111 — Record-slot correction — RETRACTED: 144B's proposed new slot gain is largely existing state/geometry information. 144C removes the claim of an independent record-slot discovery while preserving the underlying structural associations.

F113 — Functional anchors — REJECTED: V0050's preparation-heading screen did not survive class-level backfill. 145D's class compatibility is narrowed by 146A's failed independent domain concentration.

F114 — Functional anchors — REJECTED: 146B did not establish enough operators for exact language backfill. Neither screened A3/J1 family survives correction across eight families; the older separately controlled J1 domain result remains intact.

F115 — External transfer — REJECTED: The simple V0183 page-plant-name transfer failed. 147A does not overturn anonymous f102v2/f36r structure, but it prevents promoting that structure to a principal plant-name gloss.

F116 — External transfer — REJECTED: Q-A-U did not validate a second simple plant-name exemplar. 147D fails the nominated transfer; 147E–G place the prose occurrence in a broadly running-content/closing context without unique semantics.

F117 — Register selectors — REJECTED: A universal citation/prose shell-switch selector remains unidentified. 147H,J,L,M fail broad switching or prospective feature-block gates; the narrower observed Q-A-U paradigm survives.

F118 — Libro predictions — REJECTED: Herbal repeated-inventory behavior was not supported. Corrected 148A uses actual section code H and fails the pre-specified recurrence/transition profile; the earlier empty-section run is void.

F121 — Physical alignment — REJECTED: The proportional/valley shortcut did not validate a physical aaa atlas. 149A Stage1 worsens localization in all five folds; it does not test a genuinely independent physical component segmentation.

F122 — House/home — REJECTED: 150A's distinct-BODY pooling failed its predictive endpoint. The failure does not directly falsify semantic synonymy or concept coding; its overly broad framing was corrected in 150B.

F123 — House/home — REJECTED: 150B fixed same-core pooling lost information in all six runs. True partners could be less harmful than wrong partners without beating separate surfaces; no unconditional merge was earned.

F132 — Historical language controls — REJECTED: Other language controls can pass Formation without passing Handoff. The pre1340 Old Norse029 control is one explicit example; a single shared structural statistic is insufficient to identify a source language.

F133 — Hebrew/Greek controls — REJECTED: The tiny Hebrew→Greek residue pilot did not replicate prospectively. 137H1 is directionally positive on Genesis1:1–2; 137H2's untouched1:3–6 block has $p=.553$ and pooled $p=.128$. No source-chain promotion.

F138 — Metadata corrections — RETRACTED: P1 was incorrectly treated as a paragraph-opening code. The later record corrects the IVTFF locator interpretation: P0/P1/Pt are layout types. Earlier opener semantics from that error cannot be retained.

9. Major open gates

- **First independent semantic crib:** No prospectively validated historical-language word has crossed the semantic gate.
- **Second independent semantic crib:** Locked until the first is genuinely passed.
- **Exact physical glyph-component decoder:** Whole-token image failures and proportional-coordinate shortcuts do not settle stroke/hook/dot segmentation; a verified physical component atlas remains open.
- **Source language:** Latin is a leading admissible comparator under one stripped structural screen, not an identification.
- **Historical rule meaning:** The six-rule architecture is a compact descriptive reconstruction, not the scribe's recovered terminology or complete procedure.
- **Unique original order:** Codicological constraints are stronger than before, but a single full reading order of all surviving bifolia remains underdetermined.
- **Missing folio content:** Most missing leaves cannot be semantically reconstructed without fabrication; f109–f110 has section placement confidence, not text recovery.

10. Complete 139-entry findings ledger (six-pass freeze)

This section preserves every major finding category from the Sept. 9 review so failed branches cannot silently return as successes. Wording is compressed from the source review; source IDs point to that review's evidence manifest.

F001 · Early ABAD · REJECTED — The original full-English/209-page translation claim was not validated. No independently executable key and held-out plaintext validation supported it; later strict ledgers record zero translated sentences. *Receipt IDs: M, 381..*

F002 · Early ABAD · QUALIFIED — Early ABAD recurrence was suggestive, not a unique decoding key. Best early candidate $z \approx 2.83$; the later CPUA $z \approx 5.1$ headline remained chat-reported/unregenerated in the compendium. *Receipt IDs: M, C..*

F003 · Early ABAD · REJECTED — 7, phi and 49 were not uniquely privileged under broader lag controls. Numeric/harmonic, Aziel/corkscrew and Madhava–Leibniz/ZD30 shape searches did not isolate reproducible plaintext. *Receipt IDs: M, 75..*

F004 · Adaptive ZD30 · REJECTED — care/caring failed as English while its underlying paired-ending morphology survived structurally. Optimizing an English substitution can reproduce the pair; matched controls, reverse tests and anchor rediscovery did not validate that meaning. *Receipt IDs: M, 75..*

F005 · Adaptive ZD30 · REJECTED — The v1.x candidate-language mapping program failed its full gates. English, Latin+Middle English, Old+Middle English, abbreviation tolerance and 229,691-form Middle English did not meet held-out coverage/composite requirements. *Receipt IDs: M, 75..*

F006 · Adaptive ZD30 · QUALIFIED — The Hand2 Biological pocket was a subgroup lead, not a language identification. Controlled scribal variation did not pass globally or license a post-hoc subgroup winner. *Receipt IDs: M, 75..*

F007 · Adaptive ZD30 · REJECTED — Limited homophonic Middle English did not rescue the mapping. v1.14 had nominal $p = .0348$ but 26.86% coverage and 73.14% uncertainty; the full gate failed. *Receipt IDs: M..*

F008 · Early compact grammar · SUPPORTED — A six-glyph boundary core survived held-out penalized testing. l,n,o,r,s,y:5/5 folds; +.03897 penalized gain; $p = .00995$. This is a structural inventory, not six phonetic values. *Receipt IDs: M, C..*

F009 · Early compact grammar · REJECTED — That six-glyph core did not become an autonomous readable grammar. v3.1 failed complexity-adjusted sequential/second-order tests; the surviving interpretation is boundary-control information. *Receipt IDs: M, 75..*

F010 · Representation · SUPPORTED — The project recovered structural agreement beneath substantial transcription differences. CPUA/STA family normalization increased aligned ZL/GC agreement; it did not identify the true phonetic alphabet or physically segment every glyph. *Receipt IDs: M, C, 381..*

F011 · Representation · CONTROL — ZL and GC are the independent transcription witnesses; RF is a derived reference. RF agreement is useful robustness evidence but cannot be counted as a third independent replication. *Receipt IDs: M, C..*

F012 · Morphology · SUPPORTED — Local ending persistence survives across representations. The cumulative audit records roughly 10–12 percentage points of ending-persistence excess across ZL/GC/RF, with matched permutation support. *Receipt IDs: 6, M..*

F013 · Morphology · SUPPORTED — Current-final and next-initial families carry cross-token dependence. It survives conditioning on the preceding internal family and removal of adjacent same-body echoes. *Receipt IDs: 32, 6, M..*

F014 · Morphology · SUPPORTED — True physical newlines interrupt the learned within-line dependency. True boundaries are less compatible than matched shifted boundaries; the corrected analysis replaces a discarded row-normalization-bug run. *Receipt IDs: 32, M..*

F015 · Morphology · SUPPORTED — The -y/-ain relationship is a productive structural ending pair. Matched CPUA ranks ZL2/101, GC1/101, RF5/101; this does not restore the English -ing interpretation. *Receipt IDs: M..*

F016 · Morphology · REJECTED — Several attractive early shell and rhythm patterns did not survive reassessment. -edy<->-iin, literal ending AABA, rigid Q/A alternation and exact prefix×suffix shell grammar closed; physical ABAB remained mixed. *Receipt IDs: M..*

F017 · Functional states · SUPPORTED — Anonymous states differ in length, position and persistence. A/B/D labels summarize opening, persistent and short/default-like behavior; they are not noun/verb/adjective translations. *Receipt IDs: M, 75..*

F018 · Core structure · SUPPORTED — The same internal bodies occur under different outer realizations. Reusable cores span states and contexts; core recurrence is not sufficient proof of synonymous meaning. *Receipt IDs: M, 6..*

F019 · Directionality · SUPPORTED — Internal prediction and cross-token handoff show different directional biases. Coarse internal-family prediction favors right context; facing-edge propagation favors previous-right→next-left. This is predictive asymmetry, not proven writing order. *Receipt IDs: 122, 127, M..*

F020 · Directionality · REJECTED — A literal reciprocal/palindromic mechanism did not pass. A residual association exists, but the simple bidirectional8 borrowing model failed prospective gain; later rigid alternation and mirror tests also failed. *Receipt IDs: 59, 81, 183, 375..*

F021 · Internal realization · SUPPORTED — Fine-member choice needs both neighboring contexts. Bilateral exact-member prediction beat either side alone in 5/5 ZL and 5/5 GC folds. *Receipt IDs: 111, M..*

F022 · Internal realization · SUPPORTED — Context predicts licensed expansion and segmentation variation. Surface-length/STA-unit realization is not determined by family identity alone; the result is compatible with abbreviation/ligature mechanisms, not proof of one. *Receipt IDs: M, 74..*

F023 · Internal realization · REJECTED — A universal small expansion table did not explain all short/long forms. Lexeme-specific pair identity mattered; global run-length insertion/deletion regularization failed. *Receipt IDs: 158, M..*

F024 · Normalization · SUPPORTED — Conservative training-only normalization improves recurrence and preserves useful distinctions. Domain-constrained one-to-one pairings compressed about 4–4.5% of held-out types and modestly improved label/prose bridging. *Receipt IDs: 106, 138, 118, M..*

F025 · Normalization · REJECTED — Aggressive transitive merging destroys information. Giant components erased lexical/domain specificity; an intermediate RF normalization also failed the no-domain-degradation gate. *Receipt IDs: 106, 160, 6..*

F026 · Normalization · SUPPORTED — Structural resemblance alone does not license lexical identity. Hostile anchor tests rejected most proposed merges; register and domain transformations could not be merged into one rule. *Receipt IDs: 53, 79..*

F027 · Rule recovery · SUPPORTED — The descriptive rulebook compressed from eight entries to six. LINE RESET,CORE PRESERVATION,EDGE HANDOFF,CONTEXTUAL INTERNAL REALIZATION,REGISTER SHIFT,DOMAIN SPECIALIZATION remain the live hypotheses. *Receipt IDs: M, 381, 150D..*

F028 · Rule recovery · QUALIFIED — Six compact descriptions are not six fully reconstructed historical writing instructions. Some are strong statistical regularities; physical component operations and semantic relation values remain unresolved. *Receipt IDs: 381, 150D..*

F029 · Lexical identities · SUPPORTED — Q-A-U has a reproducible anonymous label/prose paradigm. The observed A1-label/K1-prose shells preserve Q-A-U+A2/S1; later tests do not support a universal shell-switch law or a principal-plant-name reading. *Receipt IDs: M, 275, 354..*

F030 · Lexical identities · SUPPORTED — Exact OROR identity and a cross-register/script bridge survive. The broader OROR/POROR/TOROR=juniper/ARAR grouping fails internal-body decomposition; later-looking external wording cannot validate medieval semantics. *Receipt IDs: 128, M..*

F031 · Lexical identities · SUPPORTED — Pharma label bodies recur in prose and across multiple outer states. The nine-body protollexicon includes B2 K1 J1 A1 and Q1 A1; these are anonymous/domain-associated bodies, not nine translated medicinal nouns. *Receipt IDs: M, 381..*

F032 · Lexical identities · SUPPORTED — BIO-CORE Q2 J1 B1 behaves as running content. Cross-section and matched-neighbor analyses disfavor a simple entity/citation interpretation; no literal Biological gloss was earned. *Receipt IDs: 77, 125, 109..*

F033 · Domain morphology · SUPPORTED — Internal A1-prefixing is associated with a Biological shift in H2/CurrierB. The cumulative record reports 54 base/derived pairs and corrected directional support; the operator's literal meaning is unresolved. *Receipt IDs: 113, 154, M, 381..*

F034 · Domain morphology · SUPPORTED — J1 insertion is associated with a Pharma shift in H1/CurrierA. 19/19 tested insertions shift toward Pharma; familywise max-Z $p \approx .000125$. This does not distinguish medicine,use,processing or ingredient meanings. *Receipt IDs: 17, 381..*

F035 · Domain morphology · SUPPORTED — Q1 A1→Q1 J1 A1 has a reproducible domain-coefficient change. The recorded coefficient rises from +.08135 to +.42447; semantic specialization/intensification is not identified by that statistic. *Receipt IDs: 17, 381..*

F036 · Domain morphology · QUALIFIED — A1 has different observed associations in different slots. Internal-body visual association, internal-prefix domain shift and outer-shell register behavior must not be conflated into one global atom meaning; the direct global-vs-slot gate remains unrecovered. *Receipt IDs: 6, 381, M..*

F037 · Lexical identities · SUPPORTED — Two conservative canonical identities survived hostile reattack. CANON-LEX-007 is Biological-directed; CANON-LEX-008 has Stars/Recipes direction. Anonymous identity is stronger than the literal field interpretation. *Receipt IDs: 53, 73, M..*

F038 · Semantic corrections · RETRACTED — Q1 A1 is not a prospectively validated herb/botanical-drug meaning. Its proposed candidate classes were generated after seeing the same labels and domain evidence later reused for validation. *Receipt IDs: 17, 381..*

F039 · Semantic corrections · QUALIFIED — Internal A1 retains a botanical-fragment visual association, not a translated plant-part morpheme. Root,leaf,flower and species readings were not established; the later audit narrows the earlier semantic promotion. *Receipt IDs: 17, 381, M..*

F040 · Semantic corrections · RETRACTED — The Pleiades claim is a seven-star visual-locus hypothesis, not a secure lexical referent. A1 A3 C1 recurs at f68r3,f1r,f113r, but the August31 audit explicitly withdraws secure lexical grounding. The structural recurrence remains. *Receipt IDs: M, 381..*

F041 · External anchors · REJECTED — Obvious picture-name cribs repeatedly failed. Calyx V0026 failed prospectively; zodiac sign names and simple 1–30 ordinals failed; Sun/Moon did not yield distinct invariant lexical bodies. *Receipt IDs: 70, M, 75..*

- F042 · External anchors · REJECTED** — Duplicate pictures do not supply a reliable exact-label dictionary. f102r1/r2 have incomplete fragment labeling; fragment order cannot safely be converted into label number. *Receipt IDs: 70, 75, 384..*
- F043 · External anchors · RETRACTED** — The alleged same-plant f18v<->f23r pair was a source-alignment error. Fragment212→f18v and 213→f23r are distinct correspondences. Deleting the invalid group removes the earlier aggregate referential signal. *Receipt IDs: 384..*
- F044 · External anchors · QUALIFIED** — f102v2 fragment225<->f36r survives as a structural short/long-family candidate. Test039 resolves the old missing-GC blocker; that replication does not identify a plant or Latin word. *Receipt IDs: 230..*
- F045 · Functional scaffold · SUPPORTED** — A LEFT:BODY:RIGHT frame captures a large stable subset. Reported outer-scaffold coverage75.56% ZL,71.26% GC; cross-witness frame agreement89.92%. Coverage is not translation accuracy. *Receipt IDs: C, 11..*
- F046 · Functional scaffold · SUPPORTED** — Outer frames help model the middle, but multi-payload splitting did not generalize. About99.7% of eligible middles remain one chunk under the tested MDL model; flexible1:2:1,1:3:1,2:4:1 did not win. *Receipt IDs: 22, 21, C..*
- F047 · Body composition · SUPPORTED** — Internal bodies are compositionally informative rather than indivisible memorized words. Atom bags/positions predict enclosing edges and domain on unseen bodies; economical models pass, larger memorization-heavy models fail MDL. *Receipt IDs: 155..*
- F048 · Body composition · QUALIFIED** — Internal decomposition predicts its own frame more reliably than the next token's onset. No decomposition earned the next-left promotion gate in both witnesses; within-token information is not automatically sentence grammar. *Receipt IDs: 155..*
- F049 · Anonymous morphology · SUPPORTED** — J1/K2/A3 are context-sensitive functional distinctions. The strict matched-payload operator gate reports+.250007 bits/observation,5/5 folds,p=.000999; analytical role names remain anonymous. *Receipt IDs: 3, 20, 381..*
- F050 · Anonymous morphology · SUPPORTED** — Entry/initiation and other outer-function associations form a reusable scaffold. The project recorded49 stable outer entries; entry-initiation support sharpened across later tests, while disputed closure/operator values remained qualified. *Receipt IDs: 1, 7, 95, C..*
- F051 · Lexicon · SUPPORTED** — A conservative77-stem anonymous inventory supports productive frame paradigms. This is a tested subset of the much larger BODY vocabulary, not a complete dictionary or77 meanings. *Receipt IDs: 65, 66, C, 381..*
- F052 · Domains · SUPPORTED** — Five stems have controlled manuscript-internal domain associations. Pharma:J1 A1,Q1 J1 A1,J1 A1 B1 A3; Herbal:Q1,B1. These are domain labels, not ingredient names. *Receipt IDs: 9..*
- F053 · Sequence · SUPPORTED** — Local order contains information beyond an unordered line inventory. Record-order tests preserve stem counts/topic controls; source-only right edges predict broad next-record shape. *Receipt IDs: 19, 0, 16..*
- F054 · Sequence · SUPPORTED** — An intervening payload adds information about a later handoff. Additive composition replicates in ZL/GC; the memorized three-way interaction adds raw gain but fails its complexity charge. *Receipt IDs: 43..*
- F055 · Sequence · REJECTED** — The simplest explicit semantic relation carriers failed. Bridge orientation, mediator, frame, two-handoff role substitution and anchored-order/bridge-contrast tests did not recover a portable semantic relation vocabulary. *Receipt IDs: 12, 18, 126, 146, 151..*
- F056 · Sequence · QUALIFIED** — Removing the shell improves structural compression but does not expose ordinary lexical bigram prose. Residual bigrams remained worse than unigram in the tested representation; compression-as-shape is not an identified source codec. *Receipt IDs: 44, C..*

- F057 · Decoder accuracy · QUALIFIED** — Cross-witness consensus contains real but limited predictive information. The consensus H2 decoder reports 15.19% accuracy on its consensus set; the 40.58% confidence tier covers only 2.82%. These are not readable-text recovery rates. *Receipt IDs: 123..*
- F058 · Earlier skeleton · QUALIFIED** — The older v8.14 segment skeleton was a large historical structural signal. Reported +.15596 bits/atom and 154/154 positive pages; later crosswalks did not justify adding it as a separate compact rule layer. *Receipt IDs: 14, 26, 30, C..*
- F059 · Earlier skeleton · REJECTED** — Ordinal-position residue did not pass transcription-independent complexity gates. CROSSWALK002 and paired002R remove the earlier provisional strengthening; association does not earn a seventh rule. *Receipt IDs: 26, 30..*
- F060 · Historical analogues · QUALIFIED** — Conrad/Clm supports historical feasibility of mixed-register working compendia. The archived comparison supports an implementation analogue, not authorship, collaboration or copied glyph values. *Receipt IDs: 56, 132, 381..*
- F061 · Historical analogues · REJECTED** — Clm641/671 did not supply the Voynich key. The authenticated comparison distinguishes letter-substitution alphabets and ordinary recipe language from the proposed Voynich mechanism. *Receipt IDs: 42, 8, 381..*
- F062 · Historical analogues · QUALIFIED** — Libro has a high-level functional-distribution correspondence. The initial crosswalk failed coverage robustness; the later audited023 result ranked 2/720 and survived page bootstraps, without token-level or semantic mapping. *Receipt IDs: 396, 381..*
- F063 · Historical analogues · REJECTED** — A small global paragraph-engine inventory did not generalize. Engine sizes 2–8 learned from first-half lines failed to predict second-half frames/payload classes with the required controls. *Receipt IDs: 394..*
- F064 · Historical corrections · RETRACTED** — MEASURE→Pharma's initial pass was a software-gate error. The corrected run enforced the declared fold requirement and failed; the earlier pass is superseded provenance. *Receipt IDs: 381..*
- F065 · Images and scribes · QUALIFIED** — Hand-specific realization carries signal but the large interaction model is too costly. Approximately +.01869 bits/event in each witness; strict MDL rejects the expanded table. This is not proof that handwriting is the final gap. *Receipt IDs: 10, 23..*
- F066 · Images and scribes · REJECTED** — Page texture and coarse whole-token image classifiers did not improve their frozen targets. These failures apply to page/token proxies, not to verified hook, dot, join or attachment-point semantics. *Receipt IDs: 23, 4, 381..*
- F067 · Images and scribes · QUALIFIED** — Analytical aaa graphs are useful representations but their unique stroke-function promotion was overstated. The 20-null register $p=.04762$ was not corrected across three targets; physical stroke semantics remain provisional. *Receipt IDs: 90, 381..*
- F068 · Two-grid architecture · SUPPORTED** — Formation and Handoff do different predictive jobs. LEFT×RIGHT governs current BODY onset/extent; RIGHT_n×RIGHT_{n+1} constrains next formation. Pooling/swapping the grids loses information. *Receipt IDs: 299, 252, 222..*
- F069 · Two-grid architecture · QUALIFIED** — Formation-class predictability is not a 100% decipherment. The class is defined through a trained LEFT×RIGHT map; perfect reconstruction of that derived label cannot establish plaintext. *Receipt IDs: 280, 339..*
- F070 · Two-grid architecture · SUPPORTED** — Weighted Handoff retains information that a modal class discards. Weighted composition nearly matches direct prediction and exceeds single-modal composition; full exact pair weights remain frozen. *Receipt IDs: 198, 211, 250..*
- F071 · Two-grid architecture · QUALIFIED** — Compact class profiles are summaries, not substitutes for exact Handoff cells. Low-K structures can retain signal but the K8 pilot null was not selection-aware; neither 8 nor a unique historical class count was established. *Receipt IDs: 326, 214, 250..*

F072 · Two-grid architecture · SUPPORTED — A compact six-right carry representation showed prospective signal. Test033 reports+.05677 accuracy gain; this is an anonymous structural carry result, not tense or another grammatical meaning. *Receipt IDs: 236..*

F073 · Language screens · QUALIFIED — Latin led the archived stripped-Formation comparison. Test036 reports80% bootstrap wins in its comparator set; this is a rank frequency, not80% probability of Latin. The exact034–036 scorer is missing under050B. *Receipt IDs: 392, 388, 287..*

F074 · Language screens · REJECTED — Direct lexical Latin identification and proper-name glossing failed. Tests037/038 did not break lexical permutation ambiguity; Test042 failed direct Latin-inflection matching. *Receipt IDs: 205, 226, 180..*

F075 · Language controls · CONTROL — Only corpora dated1340 or earlier are admissible language-gate evidence. Later Cusanus/English and modern controls remain historical/mechanism comparators; renderability or a control ranking cannot override the date gate. *Receipt IDs: 150B, 272, 274..*

F076 · Reversible realization · SUPPORTED — A restricted reversible short/long transformation was recovered. [X,Y,Z]<->LEFT=Z+BODY[Y,X]; Test048 reports70/70 leave-one-out reconstruction in its selected pair set. This is structural invertibility, not semantic equivalence. *Receipt IDs: 314, 289..*

F077 · Reversible realization · QUALIFIED — The codec has limited corpus impact and qualified witness robustness. Test049 affects1,838 tokens but removes only3 BODY types;051's agreement-filtered evidence is provisional.050A preserves Formation compatibility without sharpening it. *Receipt IDs: 162, 181, 262..*

F078 · Reversible realization · REJECTED — A universal moved-A1 meaning and an external shell selector did not validate. Initial045 support is narrowed by046/047 failures and corrected044B; codec reversibility does not identify its selection mechanism. *Receipt IDs: 344, 207, 255, 256..*

F079 · Key-page branch · SUPPORTED — X1 is unusually concentrated as a standalone form on f57v/f66r. All10 standalone X1 cases in the archived ledger occur there; embedded X1 has distinct behavior. Source-script or key-page interpretation remains a hypothesis. *Receipt IDs: 168, 228, 309..*

F080 · Key-page branch · QUALIFIED — X1's self-frame is not by itself proof of a special boundary symbol. Other singleton members also have self-frames; unusual concentration is stronger evidence than the self-frame tautology. *Receipt IDs: 309, 371..*

F081 · Key-page branch · SUPPORTED — f57v contains repeated ordered sequences with constrained slot variants. The17-position/four-repetition and2×2 descriptions capture the recorded forms; four repetitions alone cannot identify a manuscript-wide reticule algorithm. *Receipt IDs: 330, 312, 190..*

F082 · Key-page branch · SUPPORTED — Ab→A2 is a specifically supported normalization in that branch. P1/P2 and B1/B5 remain soft diagnostic classes; the result does not authorize collapsing every slot variant. *Receipt IDs: 312, 248..*

F083 · Key-page branch · QUALIFIED — f66r replication is stronger for within-token relations than for a universal key-page role. Test076 passes local within-token replication; mask,context,rare-form and staged-bridge tests are mixed or fail. *Receipt IDs: 195, 258, 295, 337, 202..*

F084 · Key-page branch · SUPPORTED — Relations selected from f57v/f66r/f8v transfer beyond those pages. Test087 recovers25/26 new relations elsewhere;088's compact relation inventory transfers. This does not prove those pages are historical instruction pages. *Receipt IDs: 370, 352..*

F085 · Key-page branch · QUALIFIED — High structural relation-recognition scores coexist with much weaker handoff prediction. 097 reports204/210 known-inventory relations recognized,97.14%;092 handoff accuracy is9/56. These endpoints cannot be averaged into translation confidence. *Receipt IDs: 234, 233, 359..*

F086 · Key-page branch · QUALIFIED — Adding a fourth page improves relation coverage modestly; unique final-page status remains partial. f20v slightly exceeds f16v in the recorded role-free comparison; rarity-based literal escapes are diagnostic and use information unavailable to a local scribe. *Receipt IDs: 368, 192, 351..*

- F087 · Reticule and direction · REJECTED** — A simple rotating four-phase state and added orientation did not earn a place. 107 worsens held-out prediction; 109 orientation adds zero. T-frame remains page/layout geometry only. *Receipt IDs: 346, 261, 150B..*
- F088 · Reticule and direction · QUALIFIED** — Substitution-state and directional fold proxies have structural signal without mirror symmetry. 108/110 find predictive associations; 110's inverse-match rate is below its null, and 111's reverse increment exceeds its forward increment. *Receipt IDs: 197, 375, 307..*
- F089 · Reticule and direction · QUALIFIED** — A frozen density rule enriches alternate-realization zones but is a poor exact selector. 114 balanced accuracy $\approx$.594 and precision $\approx$.0393; elevated risk is not reliable event-by-event recovery or evidence for physical rotation. *Receipt IDs: 304..*
- F090 · Structural decoding · QUALIFIED** — A blind two-stage edge chain works partially. 115 reconstructs RIGHT $\approx$ 59.7% and next LEFT $\approx$ 26.2%, versus direct $\approx$ 25.6%; strong shuffled-null separation is not high plaintext accuracy. *Receipt IDs: 217..*
- F091 · Function/content · QUALIFIED** — Captured relations and residual payloads have different distributional profiles. 100–103/116 expose recurrence, context and rarity differences; function-like does not mean identified grammatical function words. *Receipt IDs: 193, 227, 377, 290, 208..*
- F092 · Context · SUPPORTED** — Facing context helps resolve ambiguous edge realization. 117's next-left and next-BODY features help more than preceding features in its matched-support diagnostic; the target remains structural. *Receipt IDs: 176..*
- F093 · BODY-relation graph · QUALIFIED** — Reusable BODY-handoff-BODY patterns and cross-folio chains exist. 123 counts 90 reusable handoffs; 131/132 mine repeated chains. Shared observed edges can provide structural information without semantic relation values. *Receipt IDs: 379, 343, 185, 186..*
- F094 · BODY-relation graph · QUALIFIED** — Nine relation clusters collapse to five coarse structural profiles for tested endpoints. 125 retains next-onset/length accuracy; this does not override the separate frozen full RIGHT $\times$ RIGHT table or establish five grammatical meanings. *Receipt IDs: 184, 367, 250..*
- F095 · BODY-relation graph · REJECTED** — Stable English/Latin rendering labels do not identify the underlying relations. 126's copular/locative/etc assignments are model interpretations; 128's 100% category recovery uses the defining observed handoff and is not independent semantic validation. *Receipt IDs: 361, 196..*
- F096 · Language architecture · QUALIFIED** — BODY reuse across states is compatible with an external-state concept/lemma representation. 133–135 house/home and inflection examples illustrate an architecture; form counts and typological burden scores are not synonym tests or source-language evidence. *Receipt IDs: 182, 171, 284, 150B..*
- F097 · Language and scribes · REJECTED** — Distinct native languages by scribe or a section-conditioned lexicon were not established. 136C/136J failed their specified gains; this does not exclude every possible dialect or scribal-language influence. *Receipt IDs: 320, 238..*
- F098 · Language and register · QUALIFIED** — Technical/botanical and medieval-register screens produced leads, not a dialect winner. 136D/E/H use different historical ranges or excerpt-scale support; full equal-size sequence gates remained blocked/partial. *Receipt IDs: 308, 321, 334, 200..*
- F099 · Source mediation · QUALIFIED** — Translation controls show that source structure can persist across languages. 136O–S and Gothic controls offer mechanism evidence, with small/manual/content/register limitations; they do not identify Voynich's source language. *Receipt IDs: 204, 251, 296, 215, 279..*
- F100 · Source mediation · REJECTED** — Simple consonant stripping/romanization is not the missing layer under its test. 136M rejects that implementation; it does not exclude every transliteration or translated substrate. *Receipt IDs: 372..*
- F101 · Bible branch · QUALIFIED** — Independent medieval Bible witnesses preserve content despite surface variation. 136T ChannelA/B receipts concern those Bible witnesses, not Voynich=Bible or a completed Voynich-side dependency projection. *Receipt IDs: 273, 383..*

- F102 · Bible branch · REJECTED** — Bible surface-order compatibility did not validate the proposed key. 136U:19/19 small samples fit a broad envelope, but only 5/19 real orders improve on shuffled order; broad compatibility is not specificity. *Receipt IDs: 266, 221..*
- F103 · Bible branch · QUALIFIED** — Normalization convergence and manuscript stability remain limited. 136V/W are directional on the same Mark pair; 136X does not establish general manuscript-surface stability. *Receipt IDs: 317, 264, 210..*
- F104 · Bible branch · REJECTED** — The Bible-profile battery found confounds rather than a new source identification. 136Y–137E:compression-intensity, testament and boundary hypotheses fail; sample size matters and does not rescue the order failure. *Receipt IDs: 385, 386..*
- F105 · Hebrew/Greek and number branch · REJECTED** — A simple exhaustive permutation-wheel/gematria-style structural mechanism was not supported. 137F finds depleted exact reversals; direct gematria remains unidentifiable without a justified number mapping. No theological conclusion follows. *Receipt IDs: 391..*
- F106 · Transmission · QUALIFIED** — Edit-neighbor and latent-stemma patterns exist but are not unique to copying. 138A/C topology can arise from derivational/codec structure; 138D control reproduces important stemma statistics, blocking ancestry promotion. *Receipt IDs: 229, 305, 306..*
- F107 · Transmission · QUALIFIED** — Longer-range block structure exceeds several particular local generators. 138F/140A/140B underproduce moderately similar seven-unit blocks; 138E's simpler ordered-backbone test failed. No universal generator exclusion or copying proof follows. *Receipt IDs: 165, 164, 235, 348..*
- F108 · Transmission · QUALIFIED** — A known recopy can produce substantial surface divergence, but Voynich depth is uncalibrated. 141's ordinal model weights are not posterior probabilities; translation count, copy count and ancient source chain remain unidentified. 141D was not scored. *Receipt IDs: 173, 259, 276..*
- F109 · Sections · SUPPORTED** — Independent section boundaries coincide with structural shifts. 143B addresses 143A's inferred-label circularity and supports real strata; it does not identify separate source books. *Receipt IDs: 301, 297..*
- F110 · Sections · QUALIFIED** — Sectionwise block residuals differ descriptively. 142A used only 10 null replicates per section; it cannot establish section-specific translation or recopy depth. *Receipt IDs: 246..*
- F111 · Record-slot correction · RETRACTED** — 144B's proposed new slot gain is largely existing state/geometry information. 144C removes the claim of an independent record-slot discovery while preserving the underlying structural associations. *Receipt IDs: 209, 283..*
- F112 · Functional anchors · SUPPORTED** — Canonical payloads have stable anonymous functional profiles. 145A/B support coarse nominal-like versus running-content analogies and a frozen V0050 candidate profile; no literal noun is assigned. *Receipt IDs: 201, 293, 315..*
- F113 · Functional anchors · REJECTED** — V0050's preparation-heading screen did not survive class-level backfill. 145D's class compatibility is narrowed by 146A's failed independent domain concentration. *Receipt IDs: 277, 360..*
- F114 · Functional anchors · REJECTED** — 146B did not establish enough operators for exact language backfill. Neither screened A3/J1 family survives correction across eight families; the older separately controlled J1 domain result remains intact. *Receipt IDs: 268, 300..*
- F115 · External transfer · REJECTED** — The simple V0183 page-plant-name transfer failed. 147A does not overturn anonymous f102v2/f36r structure, but it prevents promoting that structure to a principal plant-name gloss. *Receipt IDs: 188, 230..*
- F116 · External transfer · REJECTED** — Q-A-U did not validate a second simple plant-name exemplar. 147D fails the nominated transfer; 147E–G place the prose occurrence in a broadly running-content/closing context without unique semantics. *Receipt IDs: 275, 294, 322, 355..*
- F117 · Register selectors · REJECTED** — A universal citation/prose shell-switch selector remains unidentified. 147H,J,L,M fail broad switching or prospective feature-block gates; the narrower observed Q-A-U paradigm survives. *Receipt IDs: 354, 288, 223, 260..*

- F118 · Libro predictions · REJECTED** — Herbal repeated-inventory behavior was not supported. Corrected148A uses actual section codeH and fails the pre-specified recurrence/transition profile; the earlier empty-section run is void. *Receipt IDs: 216..*
- F119 · Libro predictions · UNSCORABLE** — The astronomical rare-operator contrast lacked enough support. 148B has zero qualifying rare extreme operators versus14 productive ones. The corrected receipt replaces an invalid suffix-based automatic interpretation; this is unscorable, not negative. *Receipt IDs: 148B, 150B..*
- F120 · Libro predictions · SUPPORTED** — Biological and Recipes differ in recurrence versus directional novelty. 148C supports the specified behavioral contrast; REPORT and MOVE remain analytical descriptions, not decoded verbs. *Receipt IDs: 189..*
- F121 · Physical alignment · REJECTED** — The proportional/valley shortcut did not validate a physical aaa atlas. 149A Stage1 worsens localization in all five folds; it does not test a genuinely independent physical component segmentation. *Receipt IDs: 373, 381..*
- F122 · House/home · REJECTED** — 150A's distinct-BODY pooling failed its predictive endpoint. The failure does not directly falsify semantic synonymy or concept coding; its overly broad framing was corrected in150B. *Receipt IDs: 150B..*
- F123 · House/home · REJECTED** — 150B fixed same-core pooling lost information in all six runs. True partners could be less harmful than wrong partners without beating separate surfaces; no unconditional merge was earned. *Receipt IDs: 150B..*
- F124 · House/home · QUALIFIED** — 150C learned partial borrowing improved all six point estimates but failed joint replication. GC-family passes its individual gate;ZL-family does not beat equally tuned wrong-core borrowing. No synonym promotion. *Receipt IDs: 150C..*
- F125 · House/home · QUALIFIED** — 150D did not resolve the witness discrepancy on identical parsed contexts. 1,072 family tokens:ZL—.002029,GC+.000811 bits/token; neither passes. Exact-member support41 tokens is unscorable. *Receipt IDs: 150D..*
- F126 · Folio reconstruction · QUALIFIED** — Reconstruction yielded discontinuity candidates, not identified missing leaves. RS30→31,RS48→49,RS38→39 rank strongly in an earlier audit; Hand,Currier,section and line-reset controls limit interpretation. *Receipt IDs: 6, C..*
- F127 · Folio reconstruction · CONTROL** — The14 missing folios must remain latent positions. f12,f59–64,f74,f91–92,f97–98,f109–110; distinguish later-cut singles f12/f74 from six missing bifolios. No invented surviving-page adjacency. *Receipt IDs: M, 150D..*
- F128 · Interpretation audit · CONTROL** — The research contains multiple incompatible meanings of Handoff,H2,rule count and accuracy. Facing-edge dependency,RIGHT×RIGHT weights,derived function labels,learned adjacency entries and six procedural descriptions must be named separately. *Receipt IDs: 252, 196, 352, 381..*
- F129 · Interpretation audit · CONTROL** — Representation and corpus denominators change across tests. High agreement on aligned subsets,coverage on eligible forms and all-token accuracy are not interchangeable;150B/C/D gains are not a single improvement series. *Receipt IDs: 181, 123, 150B, 150C, 150D..*
- F130 · Open gates · OPEN** — Verified component detail beyond aaa and new independent semantic ground truth remain missing. No preserved result closes literal word/phonetic/source identification; slot-polyfunction,ending-key restatement,controlled folio-gap and Clm register-transition designs must not be marked completed without matching receipts. *Receipt IDs: 381, 373, 150D..*
- F131 · Historical language controls · QUALIFIED** — Ormulum passed one two-grid control but did not become a Voynich key. 021's held-out slice passed both grids;026's independent excerpt failed Handoff and doubling ablation weakened it. No cross-system decoding map was demonstrated. *Receipt IDs: 194, 231..*
- F132 · Historical language controls · REJECTED** — Other language controls can pass Formation without passing Handoff. The pre1340 Old Norse029 control is one explicit example; a single shared structural statistic is insufficient to identify a source language. *Receipt IDs: 244..*

F133 · Hebrew/Greek controls · REJECTED — The tiny Hebrew→Greek residue pilot did not replicate prospectively. 137H1 is directionally positive on Genesis1:1–2;137H2's untouched1:3–6 block has $p=.553$ and pooled $p=.128$. No source-chain promotion. *Receipt IDs: 179, 170..*

F134 · Geometry · QUALIFIED — Latent angular coordinates have structural signal but no unique recovered physical degree key. Nested degree-spacing choices vary by fold; the text signal fails to reproduce as a physical-ring-angle proxy. Bounding-box de-rotation is mixed. *Receipt IDs: GEOM1, GEOM2, 166..*

F135 · Information theory · CONTROL — BODY predicts lower-entropy edges more accurately than edges predict BODY, without proving BODY-first writing. 119 reports equal mutual information in both directions of each pair; differing target entropy and support account for different normalized or accuracy measures. *Receipt IDs: 199..*

F136 · Exact-member layer · QUALIFIED — Exact STA members carry information lost by family initials on some targets. SUBGLYPH-PRECISION001 shows section/next-state gains, but its20-null p-values and multiple endpoints warrant caution; later audits retain the representation distinction without physical stroke semantics. *Receipt IDs: 117, 381..*

F137 · Ending vocabulary · QUALIFIED — The older ending key and short-token subclasses are structural leads with uneven robustness. -m closure,-ir continuation,-r/-s next-a,-y next-q/Y and ol/or/r/al/s profiles are analytical associations. The direct STA/CNLT ending-key restatement remains unrecovered. *Receipt IDs: M, 75, 6, 381..*

F138 · Metadata corrections · RETRACTED — P1 was incorrectly treated as a paragraph-opening code. The later record corrects the IVTFF locator interpretation: P0/P1/Pt are layout types. Earlier opener semantics from that error cannot be retained. *Receipt IDs: M, 75..*

F139 · Outstanding claims · CONTROL — A sealed specification is not a completed experiment. The early middle-term receipt is explicitly NOT YET RUN;136B/L/N full acquisition gates and141D must not acquire results by citation to pilots. *Receipt IDs: M, 200, 291, 206, 276..*

11. Receipt index and cryptographic provenance

The following hashes were computed from the exact Library files materialized for this synthesis. For Tests 163–169, report-level hashes are preserved inside the Sept. 16 master volume and listed separately below.

Materialized source	SHA-256	Bytes
Voynich_Major_Findings_Six_Pass_Review_2_026-09-09.md	32ca1084cfb5cf8f6735b815a3aafe12b95499deead830a9418b47cb268a7fe2	67163
Voynich_Master_Volume_10_Pages_09001-09535.pdf	d349894ac9ce17e63aa33455f7c902c1006d1931ce09d6aeb209749e5941187	43569387
Voynich_TEST152_LENGTH_LOAD_COMPRESSION_REPORT_2026-09-09.md	b7d3560435c6b22a64c6e935b45c90df39398dcafe32801e6f1aa54ba25864c7	3912
Voynich_TEST153_OPERATIONAL_ALPHABET_REPORT_2026-09-09.md	6127d88cbac3415397502e5863ffa3f819f43f7dcb5586ba8a71c49fd7d8953e	6608
Voynich_TEST154_FAMILY_ZERO_REPORT_2_026-09-09.md	8f4cded34506fbf6bf1d8c765b2eae57eb393c2f672737433134659b038f0bd6	3503
Voynich_TEST155_HANDOFF_REORDER_REPORT_2026-09-09.md	7fd47bed3dd3970890a6666dd36406bf0c3b2e9f8c692cbbedfc96924350cfe7	4112
Voynich_TEST156_DIRECTIONAL_HANDOFF_REPORT_2026-09-09.md	65afee69c9b48a396104af7d27576238f927c692f725bae96d64c96b4dc4913f	5007
Voynich_TEST157_LATENT_STATE_REPORT_2026-09-09.md	a8ef27f42f00a05870b64ed9666e4c175bfbb225b1f891839370734eb910549a	6438
Voynich_TEST158_FORMULAIC_LINGUISTICS_REPORT_2026-09-09.md	8e4579f8b23080e5c631c0a6fa1511e4c26cd1e5f767d154caa71c1f104622b9	7126
Voynich_TEST159_OPERAND_TYPE_REPORT_2026-09-09.md	b3fb19f359beae2ff9b47f083b2577f12e6ab1185c790755c1f94f05ad0793ef	6065
Voynich_TEST160_ANOMALOUS_REGIME_REPORT_2026-09-09.md	362cd0c9212a3443cab5d09487ab270a340d458ca320cf0716523d100a484438	4293
Voynich_TEST161_ANALOGICAL_NEIGHBORHOOD_REPORT_2026-09-09.md	040608b7312c4062dedbb0e887da196df4037fc7b0415880b7191aaaf9dd73b5	7385
Voynich_TEST162_MINIMAL_HUMAN_RULE_REPORT_2026-09-10.md	bd67f0c12762f139a9a1316c797ed8e78efc4fa08976cf3fb7829128d7304fcc	4741
voynich_reconstruction_state.json	e7afe746d0719ec75905425ab1235a6539c5551482173b403827c3c547e1c20c	7984

11.1 Embedded Tests 163–169 report hashes

Test	Report SHA-256	Archive source
163	957a8eec8278fac9b7ef3e9f31443d0af58717c64dabf6576f44be6b3d343b49	Voynich_Master_Volume_10_Pages_09001-09535.pdf
164	37cc8802239f3f9c09c3d444c31eca161e3c9df0c44afe2c62e0172db95087d5	Voynich_Master_Volume_10_Pages_09001-09535.pdf
165	672a054377dd12d6dc01ff938aaf79ae95eb29f79e149d04cca3d7bcd0d14d6b	Voynich_Master_Volume_10_Pages_09001-09535.pdf
166	892c73a5f427cd73ce0b6c87fd4c5f7d106fad20a9f10d354804ec9d1070cb70	Voynich_Master_Volume_10_Pages_09001-09535.pdf
167	20f6f80acfb83ccf28016c1597276c6a3f1c0491c0b5137fbf1f7255ad975ff	Voynich_Master_Volume_10_Pages_09001-09535.pdf
168	70d1419fb9496a1989bc720fc966a4b576b367e5a9411676b9795a686627ba32	Voynich_Master_Volume_10_Pages_09001-09535.pdf
169	5a3b50c8fa01c8add5b3d0158c857334814ac834ca3f206b4ded6e10f64e35ac	Voynich_Master_Volume_10_Pages_09001-09535.pdf

12. Methodological guardrails for the next decryption attempt

- Keep ZL and GC as independent transcription witnesses; do not count RF as a third independent replication.
- Freeze mappings/rules on training folios and preserve held-out folios untouched.
- Keep Formation and Handoff separate. Preserve exact RIGHT×RIGHT/RIGHT→LEFT distributions instead of collapsing to modal labels.
- Do not merge exact BODY identities simply because their distributions look similar.
- Use illustration semantics only after a structural/lexical candidate has been frozen independently.

- Any language comparator promoted as historical evidence must satisfy the archive's pre-1340 admissibility rule; later corpora are controls only.
- Require hostile/null controls that preserve superficial morphology while destroying the dependency under test.
- Treat "accuracy" endpoints separately: local relation recognition, category recovery, edge prediction, and translation are not interchangeable.
- Do not infer missing-page text from structural placement. Keep unknowns explicit.
- No semantic translation should be promoted until at least one independent crib survives prospective validation and then replicates on a second independent anchor.

13. Bottom line

The research has moved well beyond an unconstrained substitution-cipher hunt. The strongest surviving model is a compact mediievally executable writing grammar: preserve a reusable core; classify/analogize by an outer construction frame; let a frame-conditioned member influence current formation; choose a context-appropriate internal realization; optionally contract/expose under physical writing pressure; propagate a local edge convention within the line; reset at newline. That architecture is repeatedly testable and has survived several hostile controls.

What it still lacks is the bridge from structure to historical meaning. The most important next success will not be another higher structural score; it will be an independently anchored semantic or phonetic correspondence that was frozen before testing and then predicts new manuscript material. Until that occurs, the correct scientific status is: strong structural decryption progress, no validated plaintext decryption.