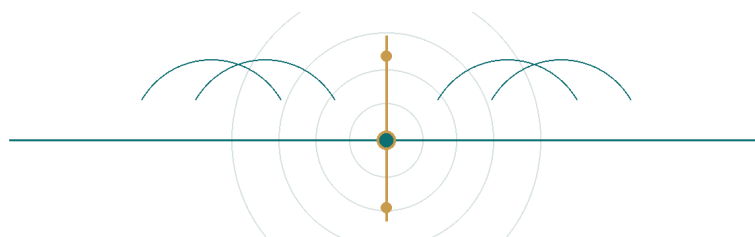


NOVAXIS

Science, Technology and the Emerging Future



AUTHOR MANUSCRIPT TEMPLATE

Master template for interdisciplinary research, methods, data/software, reviews and perspectives

FORMAT	CITATIONS	TRANSPARENCY	VERSION
Editable LaTeX One-column author manuscript	Numbered References in order of appearance	Embedded Data, code, AI and reproducibility	1.0 Template design • 2026

A NEW AXIS FOR DISCOVERY. A NEW ERA FOR SCIENCE.



This document is designed as a reusable master template. Grey/teal instruction panels are guidance and should be deleted before final submission unless the journal requests otherwise.

Template Quick Start

AUTHOR INSTRUCTION — DELETE BEFORE SUBMISSION

Use the supplied LaTeX section, subsection, caption, and table commands rather than manual formatting. Replace all bracketed placeholders. Keep the manuscript in one column. Do not manually create page headers, page numbers, or decorative elements. The publisher will perform final typesetting after acceptance.

RECOMMENDED DEFAULT FORMATTING

Page size	A4 (210 × 297 mm); portrait.
Margins	Approximately 21 mm left/right, 18 mm top, 17 mm bottom.
Body text	Times New Roman, 10.5 pt, 1.15 line spacing; justified or left-aligned consistently.
Headings	Numbered hierarchy: 1, 1.1, 1.1.1. Use the section, subsection, and subsubsection commands defined in this template.
Citations	Numeric citations in square brackets, e.g., [1], [2–4], in order of first appearance.
Figures	Place near first citation during submission. Use vector graphics where possible; otherwise supply publication-quality raster files.
Tables	Editable tables preferred. Use concise titles above tables and explanatory notes below.
Units & symbols	Use SI units where practical; define non-standard abbreviations at first use.

ARTICLE TYPES AND RECOMMENDED MANUSCRIPT ARCHITECTURE

Article type	Typical emphasis	Abstract	Suggested main structure
Research Article	Original empirical, experimental, computational or theoretical work	200–300 words	Introduction • Methods • Results • Discussion • Conclusions
Review / Synthesis	Critical synthesis, systematic or integrative review	200–300 words	Introduction • Review Method • Thematic/Synthetic Results • Discussion • Outlook

Editorial note: the ranges above are recommended defaults for consistency, not hard limits. The final journal policy may specify article-type-specific exceptions.

RECOMMENDED SUBMISSION PACKAGE

Main manuscript	This completed template, including author information unless the active review workflow requests anonymization.
Figures	Original high-quality figure files, included in the figures folder and supplied separately where requested.
Supplementary material	Methods, data dictionaries, extended tables, videos, appendices, or other supporting files as needed.
Cover letter	Concise statement of fit, novelty, significance, prior dissemination, and any related manuscripts.

MANUSCRIPT STARTS HERE

AUTHOR INSTRUCTION — DELETE BEFORE SUBMISSION

Replace every bracketed field below. The title should be specific, informative, and understandable outside the narrowest subfield. Avoid unexplained abbreviations, promotional phrasing, and claims of priority unless objectively supportable.

[FULL MANUSCRIPT TITLE]

[Author A]^{1,†}, [Author B]², [Author C]^{1,*}

1 [Department / School / Institute], [University / Organisation], [City], [Region], [Country]

2 [Department / School / Institute], [University / Organisation], [City], [Region], [Country]

† [Equal contribution statement, if applicable]

* Correspondence: [Name], [email address]

MANUSCRIPT METADATA

Article type	[Research Article / Review / Perspective / Methods / Software-Data-Benchmark / Brief Communication / Other]
Running title	[≤ 60 characters recommended]
Corresponding author	[Full name • email • postal address if required]
ORCID iDs	[Author A: 0000-0000-0000-0000; Author B: ...]
Word count	[Main text excluding abstract, references, tables, figure captions, supplementary information]
Figures / tables	[X figures • X tables • X supplementary files]

Highlights

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Provide 3–5 concise highlights. Each should communicate one independently understandable contribution, result, resource, or implication. Avoid simply repeating the title or abstract.

- [Highlight 1 — key problem or contribution]
- [Highlight 2 — principal result]
- [Highlight 3 — broader significance or reusable artifact]
- [Optional highlight 4]
- [Optional highlight 5]

Abstract

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Recommended length: 200–300 words for full articles. State the problem, approach, key evidence/results, and principal conclusion. Include quantitative results where they materially support the claim. Avoid citations unless essential.

[Abstract text. Write as a self-contained summary accessible to a broad scientific and technological readership.]

Keywords: [4–8 keywords or key phrases; avoid duplicating every word in the title]

Significance and Future Relevance

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In 80–150 words, explain why the work matters beyond the immediate dataset, system, material, or use case. Distinguish demonstrated findings from forward-looking implications. This is a NOVAXIS-specific bridge between technical contribution and future relevance.

[Significance statement]

Research Transparency Snapshot

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Complete every row. Use “Not applicable” only when genuinely inapplicable. If access is restricted, state why and indicate the process for qualified access where possible.

Item	Status / identifier	What readers need to know
Data	[Open / restricted / not applicable]	[Repository, DOI/accession, restrictions, data dictionary]
Code / software	[Open / restricted / not applicable]	[Repository, release/version, license, installation/reproduction notes]
Materials / protocols	[Available / restricted / not applicable]	[Protocol link, repository, material-transfer constraints]
Preregistration / protocol	[Identifier / none / not applicable]	[Registry, timestamp, deviations from protocol]
Computational environment	[Reported / not applicable]	[Hardware, software, dependencies, random seeds where relevant]
AI-assisted tools	[Used / not used]	[Tool/model/version, purpose, human verification, disclosure location]

1 Introduction

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Establish the problem, the knowledge gap, and the contribution. End with a clear statement of objectives, research questions, hypotheses, or design goals. Do not turn the introduction into an exhaustive literature review.

[Paragraph 1 — scientific/technological context and why the problem matters.]

[Paragraph 2 — what is known, what remains unresolved, and why the gap is material.]

[Paragraph 3 — the approach taken in this study and what is genuinely new.]

[Final paragraph — objectives, hypotheses/research questions, and a brief preview of the main contribution.]

2 Background / Related Work [optional or article-type dependent]

AUTHOR INSTRUCTION — DELETE BEFORE SUBMISSION

Use this section only when the field requires a distinct synthesis of prior work. Organize by concepts, mechanisms, methods, or unresolved tensions—not by a chronological list of papers.

2.1 [Concept, theory, system class, or prior approach]

[Synthesize the relevant evidence and define the comparison point for the present work.]

2.2 [Second theme or competing approach]

[Discuss limitations, inconsistencies, and the basis for the present design.]

3 Materials and Methods / Methodology

AUTHOR INSTRUCTION — DELETE BEFORE SUBMISSION

Provide enough detail for a competent researcher to understand, evaluate, and—where feasible—reproduce the work. Separate prespecified methods from exploratory analyses. Identify software, models, instruments, datasets, protocols, and versions with enough precision to resolve ambiguity.

3.1 Study design / system architecture / theoretical setup

[Define the design, setting, system boundary, conceptual model, mathematical formulation, or experimental architecture.]

3.2 Data, samples, materials, or corpora

[Describe provenance, inclusion/exclusion criteria, sampling, preprocessing, licenses/permissions, and representativeness or scope limits.]

3.3 Procedures / implementation

[Describe experimental procedures, algorithms, pipelines, interventions, or implementation steps in reproducible order.]

3.4 Measures / outcomes / evaluation criteria

[Define primary and secondary outcomes, metrics, benchmarks, measurement instruments, and any thresholds.]

3.5 Statistical / computational analysis

[Specify models, estimators, uncertainty intervals, multiple-testing handling, validation procedures, random seeds, hyperparameters, and software/version information.]

3.6 Ethics, safety, security, and dual-use considerations [as applicable]

[State approvals/waivers and describe foreseeable misuse, hazard, privacy, cybersecurity, biosafety, or dual-use risks when relevant.]

3.7 Reproducibility details for AI/ML or computational work [if applicable]

Report	Minimum useful detail
Model / algorithm identity	Architecture or model family, exact version/release, initialization, adaptation/fine-tuning method.
Data provenance	Source, acquisition date/range, license/terms, splits, deduplication, leakage/contamination controls.
Training / inference	Hardware, major hyperparameters, optimizer, stopping criteria, seeds, precision, context/window limits, decoding settings where relevant.
Baselines / ablations	Rationale for comparator selection, implementation parity, removal tests, sensitivity analyses.
Evaluation	Metrics, confidence intervals or uncertainty, human evaluation protocol where used, failure cases, distribution shifts, subgroup performance.
Artifacts	Code, environment lockfile/container, checkpoints/weights where shareable, prompt templates or system instructions when they materially affect reproducibility.

4 Results

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Present results in the order needed to answer the research questions. Distinguish primary from secondary/exploratory analyses. Report uncertainty, not only point estimates. Do not duplicate the same data in text, tables, and figures unless needed for interpretation.

4.1 Primary result / principal finding

[State the result, provide the key quantitative evidence, and cite the relevant figure/table.]

4.2 Secondary / robustness / sensitivity results

[Report robustness, sensitivity, subgroup, ablation, or alternative specification results where relevant.]

4.3 Failure cases, null results, or boundary conditions

[Report meaningful failures or conditions under which the method/system does not perform as intended. NOVAXIS encourages informative negative evidence when methodologically sound.]

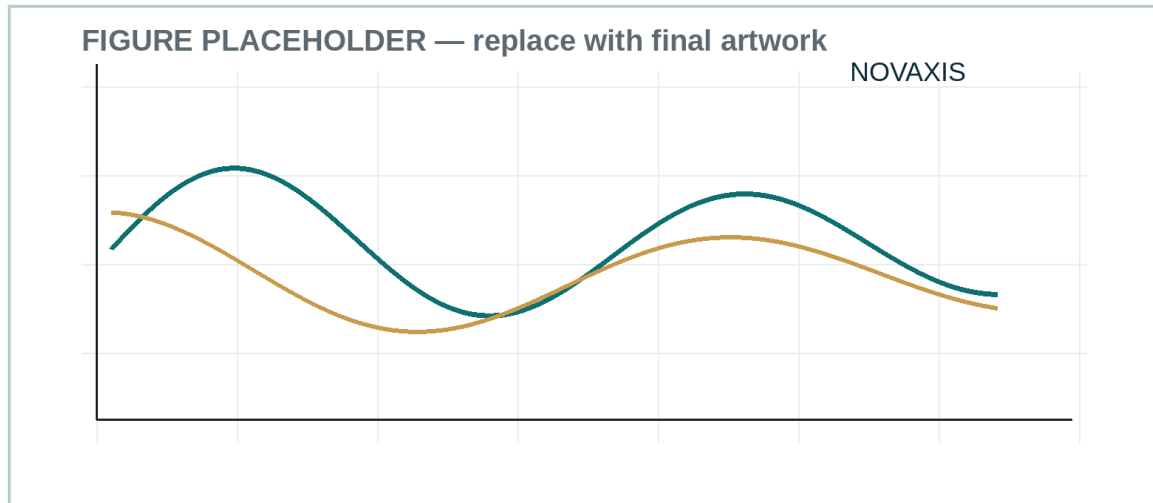


Figure 1. [Concise figure title]. [Caption should define symbols, abbreviations, sample sizes, uncertainty bands, and panel labels so the figure can be interpreted with minimal dependence on the main text.]

5 Discussion

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Interpret rather than repeat the results. Separate what the data directly show from plausible mechanisms and future implications. Compare with prior evidence, explain discrepancies, discuss generalizability, and state what would falsify or revise the interpretation.

5.1 Principal interpretation

[What is the most defensible interpretation of the findings?]

5.2 Relation to prior work

[Where do the findings agree, extend, challenge, or qualify prior evidence?]

5.3 Implications across disciplines or systems

[Explain broader relevance without overextending beyond the evidence.]

5.4 Limitations and identification boundaries

[State the strongest limitations, uncertainty sources, scope restrictions, and claims the study cannot support.]

5.5 Future research / translation pathway

[Identify specific next tests, datasets, designs, deployment conditions, or theory development needed.]

6 Conclusions

AUTHOR INSTRUCTION — DELETE BEFORE SUBMISSION
Keep the conclusion concise. Re-state the supported contribution and its significance without introducing new results. Avoid broad claims not warranted by the evidence.

[Concluding paragraph(s).]

7 Tables, Figures, Equations and Technical Presentation

7.1 Tables

AUTHOR INSTRUCTION — DELETE BEFORE SUBMISSION
Use editable LaTeX tables whenever practical. Keep tables interpretable without the main text. Define units, abbreviations, statistical symbols, and source notes. Avoid vertical lines unless structurally necessary.

Table 8. [Concise descriptive title]

Variable / condition	Group A	Group B	Effect / difference
[Measure 1]	[value]	[value]	[estimate; CI]
[Measure 2]	[value]	[value]	[estimate; CI]
[Measure 3]	[value]	[value]	[estimate; CI]

Note. [Define abbreviations; explain uncertainty intervals, tests, correction methods, and any non-obvious denominators.]

7.2 Figures

File quality	Prefer vector formats for diagrams/plots where supported. For raster images, provide sufficient resolution for final publication size.
Legibility	Use readable labels and line weights; do not rely on color alone to encode meaning.
Accessibility	Provide meaningful alt text or a concise visual description for information-rich figures.
Image integrity	Do not selectively enhance, erase, splice, or alter image features in a way that changes the scientific interpretation. Disclose permitted global adjustments when material.
AI-generated imagery	Disclose synthetic or AI-assisted image generation where relevant and ensure use complies with scientific integrity, rights, privacy, and consent requirements.

7.3 Equations and notation

AUTHOR INSTRUCTION — DELETE BEFORE SUBMISSION
Use native LaTeX math environments rather than screenshots. Define every non-standard symbol at first use. Number only equations cited later.

$$y = \beta_0 + \beta_1x + \varepsilon$$

(1)

8 Declarations and Research Integrity

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Retain every heading below. If an item does not apply, write “Not applicable.” Do not delete a heading unless the journal's production office instructs you to do so.

8.1 Ethics approval

[Committee/institution, approval number, date, waiver, or “Not applicable”.]

8.2 Consent to participate

[Statement or “Not applicable”.]

8.3 Consent for publication

[Statement for identifiable information/images or “Not applicable”.]

8.4 Competing interests

[Declare financial and non-financial competing interests. If none: “The authors declare no competing interests.”]

8.5 Funding

[Funder names, grant numbers, role of the funder, or “No external funding.”]

8.6 Author contributions (CRediT)

[Conceptualization: ...; Methodology: ...; Software: ...; Validation: ...; Formal analysis: ...; Investigation: ...; Resources: ...; Data curation: ...; Writing – original draft: ...; Writing – review & editing: ...; Visualization: ...; Supervision: ...; Project administration: ...; Funding acquisition: ...]

8.7 Acknowledgments

[Individuals, facilities, technical assistance, language editing, data providers, or other non-author contributions.]

8.8 Data availability

[Repository / DOI / accession / access process / legitimate restriction.]

8.9 Code, software and materials availability

[Repository / version / license / persistent identifier / access restrictions.]

8.10 Generative AI and AI-assisted technologies disclosure

[State whether such tools were used in writing, coding, analysis, image generation, translation, or other research tasks. Identify tool/model/version and purpose when material, describe human verification, and make clear that authors remain responsible for the work.]

8.11 Safety, security and dual-use statement [when relevant]

[Identify material misuse or hazard pathways, mitigations, access controls, redactions, or rationale for not releasing sensitive details.]

9 References

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Use numbered references in order of first citation. Cite primary and authoritative sources where possible. Ensure every reference is cited in the text and every in-text citation appears in the reference list. Include DOI or another persistent identifier when available. Clearly identify preprints, datasets, software, standards, and reports as such.

- [1] A. Author, B. Author, Title of journal article, Journal Name 12 (2026) 100–115. <https://doi.org/xx.xxxx/xxxxx>
- [2] C. Author, Book Title, 2nd ed., Publisher, City, 2025.
- [3] D. Author, E. Author, Chapter title, in: F. Editor (Ed.), Book Title, Publisher, City, 2026, pp. 10–28.
- [4] Organisation Name, Dataset/Software/Standard Title, Version 2.1, Repository/Publisher, 2026. DOI or persistent URL.
- [5] G. Author, Preprint title, Repository Name (2026). DOI or persistent identifier. [Use only where appropriate; identify as preprint.]

10 Supplementary Information

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Supplementary material should support—not conceal—the core evidence needed to evaluate the main claims. Refer to each supplementary item in the main text. Use stable file names and a clear hierarchy.

Supplementary Methods	[Extended protocols, derivations, computational details.]
Supplementary Tables	[Table S1, Table S2, ...]
Supplementary Figures	[Figure S1, Figure S2, ...]
Supplementary Data	[Machine-readable data files and data dictionary.]
Supplementary Code / notebooks	[Reproducibility scripts, workflow files, environment definitions.]
Multimedia / interactive artifacts	[Video, interactive visualization, model demo, digital twin, simulation, etc., if relevant.]

Appendix A. Domain-Specific Reporting Modules

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Use the modules that apply to the manuscript. They are intended to prevent under-reporting in NOVAXIS's broad future-facing scope; they do not replace field-specific community standards.

A1. Artificial intelligence and autonomous systems

- Dataset provenance, licenses, temporal scope, split construction, deduplication, and contamination/leakage checks.
- Exact model or system versions, prompts/system instructions when material, inference settings, tool/API versions, and agent orchestration details.
- Random seeds, compute/hardware, training budget, hyperparameters, stopping criteria, baselines, ablations, and uncertainty across runs.
- Failure modes, subgroup behavior, distribution shift, human evaluation protocol, safety testing, and deployment boundary conditions.
- Reproducibility artifacts and disclosure of unavailable proprietary components.

A2. Quantum systems and quantum information

- Physical or simulated platform, qubit/photonic/other architecture, device or simulator version, calibration context, noise assumptions, and circuit depth/shot count.
- Classical baselines and fair resource accounting; distinguish idealized simulation from hardware results.
- Error mitigation/correction procedures, uncertainty estimates, seed/randomness control, and reproducibility of circuit generation.
- Security or cryptographic claims should state the threat model, assumptions, adversary capabilities, and implementation gap.

A3. Future materials, devices and engineered systems

- Material provenance, composition, synthesis/fabrication conditions, batch/lot information, and characterization methods.
- Instrument models/calibration, sample counts, replicates, environmental conditions, and uncertainty in measured properties.
- Raw or processed characterization data availability, image-processing steps, and handling of excluded specimens/outliers.
- Scale-up, durability, lifecycle, safety, and environmental boundary conditions when making translational claims.

A4. Human-machine systems, digital society and interactive technology

- Participant recruitment, demographics relevant to the research question, consent, compensation, inclusion/exclusion, and privacy safeguards.
- Human-AI interaction protocol, task instructions, interface version, exposure duration, training/familiarization, and automation level.
- Human performance, trust/reliance, workload, fairness, accessibility, and failure/override behavior where relevant.
- Distinguish observed user behavior from inferred intent or psychological state; report generalizability boundaries.

A5. Data, software, benchmark and research artifact papers

- Artifact purpose, intended users, architecture, dependencies, license, installation path, versioning policy, and maintenance expectations.
- Benchmark/task construction, leakage resistance, sampling, annotation/label quality, licensing, and contamination risks.
- Validation against realistic baselines, scalability/performance measurements, known limitations, failure cases, and reproducibility package.
- Persistent release identifier and a clear distinction between the paper version and evolving software/data releases.

Appendix B. Pre-Submission Quality Checklist

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Complete this checklist before submission. The goal is to prevent avoidable editorial returns and improve reproducibility, interpretability, and cross-disciplinary readability.

Pre-submission check	YES	NO	N/A
Title and abstract accurately match the evidence and do not overclaim novelty, causality, generalizability, or readiness for deployment.			
All author names, affiliations, ORCID iDs, correspondence details, funding, and competing interests are complete and internally consistent.			
The introduction states a specific gap and contribution; the discussion distinguishes evidence from interpretation and future speculation.			
Methods identify data/material provenance, inclusion/exclusion, software/models/versions, procedures, and analysis choices at a reproducible level.			
Primary outcomes and analyses are clearly distinguished from secondary, robustness, exploratory, or post hoc analyses.			
Figures and tables are readable, non-duplicative, correctly numbered, cited in order, and include complete captions/notes.			
Uncertainty, variability, sample sizes/denominators, and statistical or computational assumptions are reported where relevant.			
Negative results, failure modes, boundary conditions, or meaningful limitations are not suppressed.			
Data, code, software, materials, protocols, and supplementary artifacts have stable identifiers or an explicit access statement.			
AI-assisted tools are disclosed when materially used, and all resulting content, code, analysis, and citations have been checked by the authors.			
Ethics, consent, privacy, safety, security, and dual-use issues have been evaluated and disclosed where applicable.			
Every in-text citation has a matching reference; every listed reference is cited; persistent identifiers are included where available.			
Terminology, abbreviations, units, symbols, capitalization, and spelling are consistent throughout the manuscript.			
All bracketed placeholders and AUTHOR INSTRUCTION boxes have been removed from the final submission copy.			

Appendix C. NOVAXIS LaTeX Style Specification

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This section documents the style system embedded in the file. Authors normally do not need to modify it. Editors and production staff may use it to rebuild or audit the template.

Element	LaTeX command	Font	Size	Usage
Main body	normal text	Times New Roman / Times-compatible	10.5 pt	Main narrative paragraphs
Level 1 heading	\section	Arial / sans serif Bold	14 pt	Numbered major sections
Level 2 heading	\subsection	Arial / sans serif Bold	11.5 pt	Subsections
Level 3 heading	\subsubsection	Arial / sans serif Bold	10.2 pt	Third-level headings
Figure/table caption	\caption	Arial / sans serif	8.7 pt	Figure captions and table notes
Reference entry	\bibitem	Times New Roman / Times-compatible	9.2 pt	Numbered reference list
Instruction / metadata	\instruction	Arial / sans serif	8.2 pt	Template-only guidance and small notes

END OF NOVAXIS AUTHOR MANUSCRIPT TEMPLATE

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