We help unlock the full potential of your R&D.

NEXYRA
Advanced Research

Built for

THE REALITY IN R&D

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Multi-Omics AI to unlock the full potential of your R&D

MULTI-OMICS-DRIVEN. EXPLAINABLE AI. PATIENT-CENTERED.



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Our vision is a future where understanding biology is no longer the main limit to transforming biomedicine.

We want to enable a new generation of biomedical research where any organisation capable of generating biological data can also extract deep, actionable knowledge from it.

Making complex biology accessible.

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Computational intelligence can change how we understand biology

Nexyra combines multi-omics data, systems biology and explainable artificial intelligence to transform complex molecular data into structured, traceable biological knowledge.

The platform connects molecular signals with biological pathways, regulatory mechanisms, phenotypes, diseases, toxicology, therapeutic targets, drug relationships and scientific evidence, helping research teams understand what is changing, why it may be happening and which findings deserve further investigation.

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STRUCTURED BIOLOGICAL KNOWLEDGE

Understand mechanisms

Prioritise biomarkers and targets

Connect findings with clinical evidence

Explore therapeutic opportunities

Decide with traceable evidence

MULTI-OMICS / XAI

SYSTEMS BIOLOGY

Collaboration models

Three ways to work with us.

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REF. 01

SaaS Platform

A platform for automated analysis and interpretation of omics data, with traceable, auditable workflows. On-demand access for research and development teams.

- Automated omics analysis
- Traceability from data to results
- Auditable analysis workflows

EXPLORE SAAS

REF. 02 HIGHEST IMPACT

Scientific co-development

We combine our technological capabilities with your biological knowledge. For organizations looking to solve specific challenges without diverting internal resources.

- Joint study design
- Multi-omics and AI integration
- From hypothesis to validation

EXPLORE CO-DEVELOPMENT

REF. 03

Biological asset licensing (PDAC)

Direct access to high-value translational assets ready for validation phases. For pharma and biotech companies accelerating their pipeline while reducing early-stage risk.

- Validated and documented assets
- First-in-class / best-in-class potential
- Scientific and regulatory support

EXPLORE ASSETS

Less time
From data to decision

Lower risk
With robust evidence

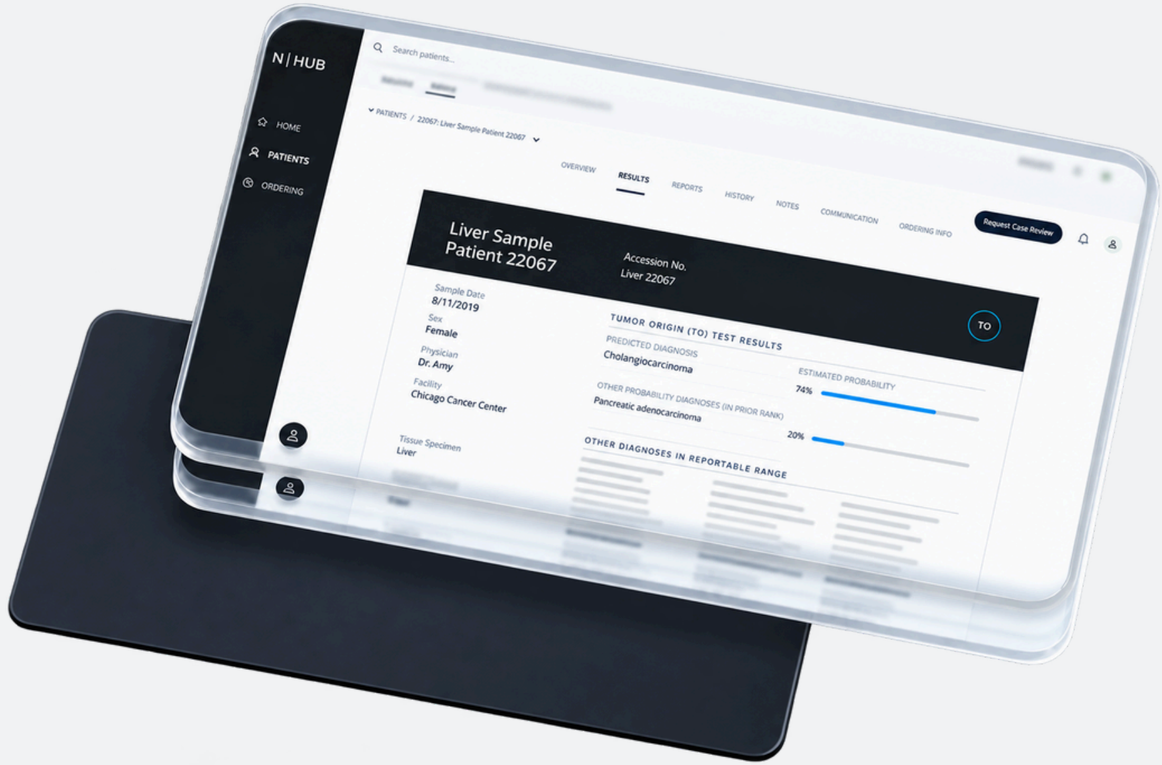
Greater impact
For patients

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All your multi-omic discoveries, in one place.

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The automated scientific infrastructure that unifies your data, standardizes your analyses, and accelerates the path from raw data to results based on your research objectives—without the need to build workflows from scratch.



Proximity

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Each analysis connects the biological response with mechanisms, clinical context and scientific support, according to the research objective

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Biological Pathways
Mechanisms & Regulators
Clinical & Phenotypic Context
Biomarkers & Therapeutic Target
Scientific Evidence
Traceable Results



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Our impact

Where Nexyra accelerates drug R&D

Time-to-Insight

30× faster

~3 days vs ~16 months

Cost avoided

$2M+ / program

Personnel + HPC + re-runs

Decision risk

–30–38%

Explainable multi-omic evidence

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Plans designed for different ways of working

Analyse one omics layer or combine multiple data types within the same research workflow.

Transcriptomics · Genomics / Exomes · Multi-omic

Features	PROJECT-BASED BASIC Analyse what you need, when you need it. For individual projects or teams that do not require a recurring platform subscription.	SUBSCRIPTION PROFESSIONAL Continuous analysis for active research teams. For teams running multiple projects or datasets throughout the year.	ENTERPRISE SUBSCRIPTION ENTERPRISE Nexyra within your research infrastructure. For organizations requiring higher analytical capacity, governance and controlled deployment.
Omics access	Transcriptomics, Genomics / Exomes & Multi-omics	Transcriptomics, Genomics / Exomes & Multi-omics	Transcriptomics, Genomics / Exomes & Multi-omics
Usage	Per project	Credit-based	Credit-based
Preprocessing	Extra cost	Additional credits	Additional credits
Projects	Defined scope	Multiple	Organization-wide
Users	Limited	Team	Multiple teams
Support	Standard	Priority	Dedicated
Deployment	Nexyra Cloud	Nexyra Cloud	Nexyra Cloud / Private Cloud / On-Premise

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Security designed for scientific research

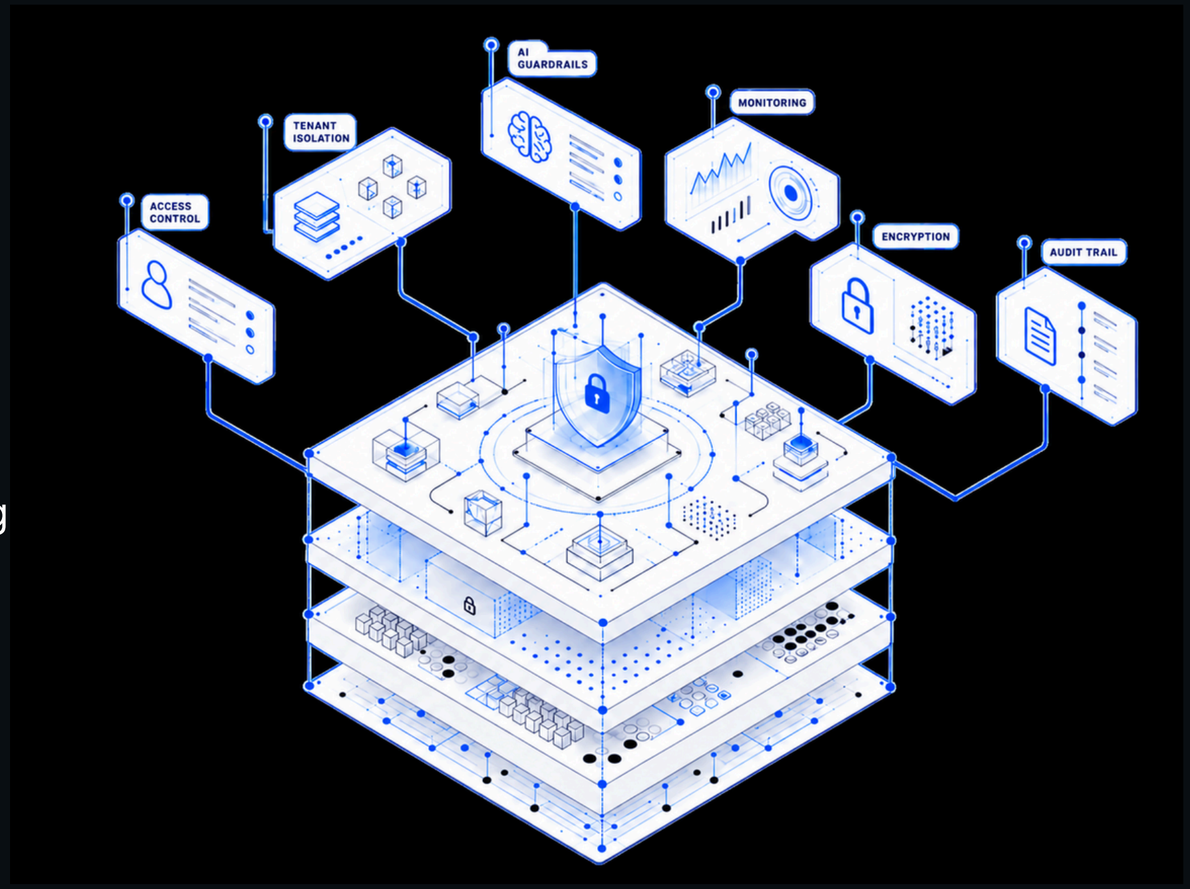
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Work with complex molecular data while maintaining control over your information, users and workspaces.

Nexyra can run in managed cloud environments or within customer infrastructure, adapting to security, data governance, integration and internal policy requirements while preserving consistent scientific workflows across deployment models.

Each organization operates in a logically isolated tenant: users, studies, data and resources remain separated from other customers. Processing is also isolated, with every execution retaining its own context and results linked to the corresponding study and organization.

The architecture includes encryption in transit and at rest, together with identity and access controls that restrict exposure of scientific data and credentials. Data protection is enforced at the architectural level, not only through the user interface.



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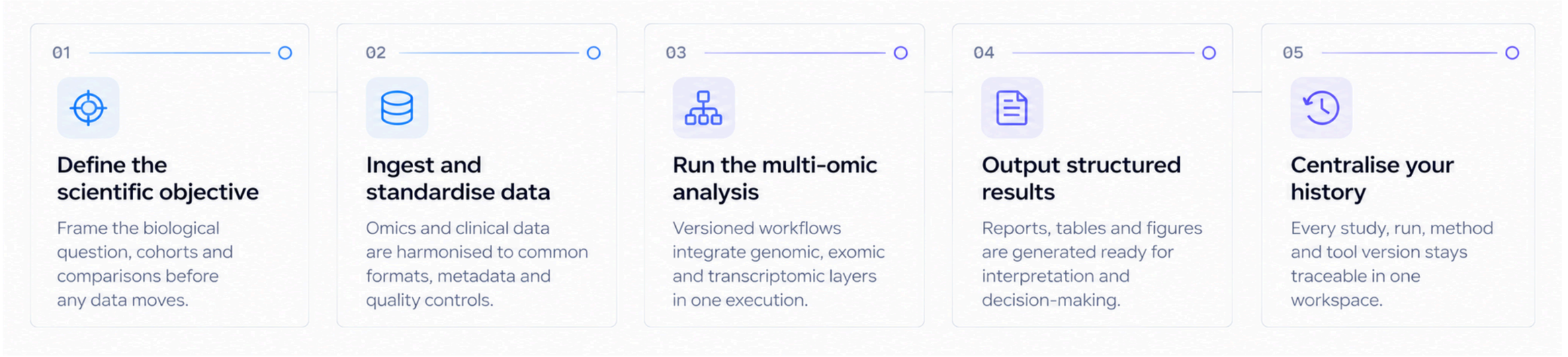
Translational **de-risking** by aligning biology, biomarkers, populations and endpoints before the program moves forward, using explainable multi-omics and systems biology.

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From raw data to scientific conclusions in five steps

Nexyra automates repetitive analytical work while preserving the decisions that require scientific judgement.



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Build the scientific infrastructure for the next era of precision medicine with us.

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Thanks to our co-development model, we can combine multi-omics data, clinical data, scientific literature, explainable AI, and systems biology to transform underutilized biomedical datasets into actionable biomarkers, therapeutic targets, and decision-ready R&D outcomes.

Biological asset assessment, predictive modeling, drug repositioning, precision diagnostics, and more are among the services we can offer thanks to our technology.



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Our R&D

The source of our inspiration.

For centuries, science advanced thanks to those who dared to look where others saw nothing.

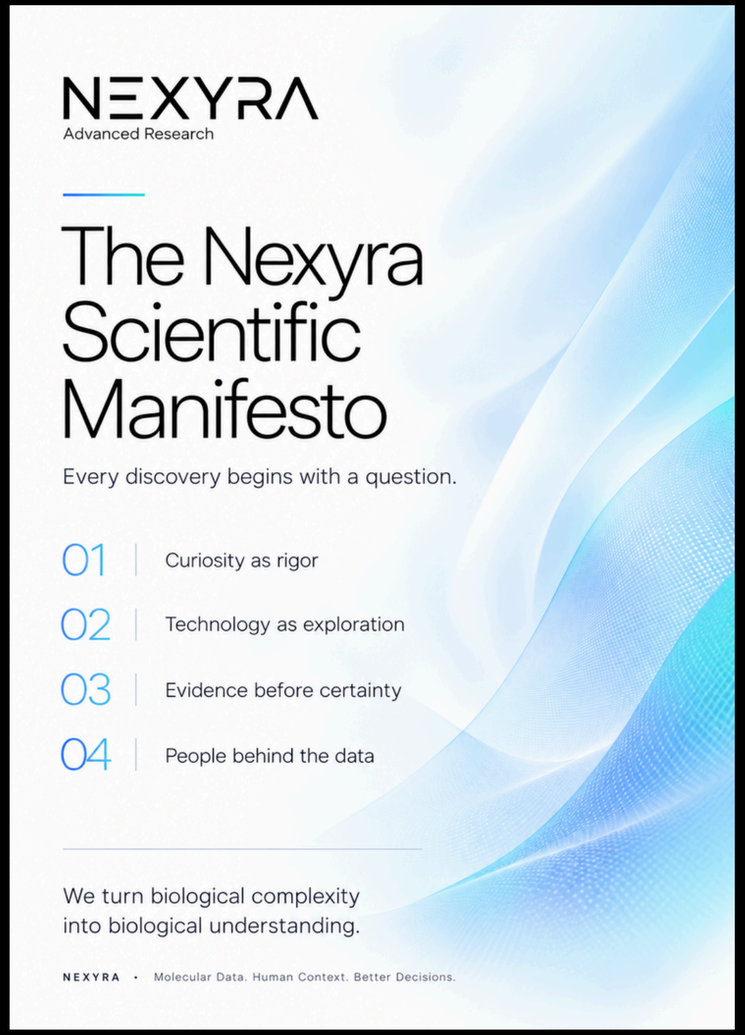
Strategic focus areas: PDAC, ALS / Rare & Orphan Diseases, Longevity & Frailty

PDAC Pancreatic Ductal Adenocarcinoma	Early detection	Patient stratification	Resistance mechanisms	Novel therapeutic targets
ALS / Rare & Orphan Diseases Neurodegeneration and rare diseases	Low-prevalence cohorts	Mechanistic insight	Biomarker discovery	Precision trial design
Longevity & Frailty Healthy ageing and resilience	Biological ageing	Resilience & decline	Frailty signatures	Intervention response

From biological complexity to **actionable therapeutic insight**

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Discover



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Designed for federated and governed omics ecosystems

Nexyra has joined OmicSpace (the multi-omics data catalog coordinated by IIS La Fe) as a registered data user. This institutional membership strengthens our ability to operate within cataloged, interoperable, and ethically governed omics data environments for translational research, biomarker discovery, and precision medicine. It also grants us access to omics and clinical data from different cohorts of **over 5 million patients** and tumor tissue samples, which we can use for our own research or to enrich co-development projects.

OMIC SPACE

Learn more

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eit Health

III Health to Market Awards — EIT Health & Parque Científico de Madrid

Read more →

TOP101
Reconocimientos
al emprendimiento con impacto en España

Spain Up Nation

Scientific and Institutional collaborations

Developed in collaboration with leading academic, technological and innovation institutions.

Cluster de Inteligencia Artificial

EP PerMed
European Partnership for Personalised Medicine

FUNDACIÓN Parque Científico de Madrid

XOMIC SPACE

fundación para el conocimiento madrid+d

Universidad Camilo José Cela

EU-LAC Digital Accelerator

DISRUPTIVE
Plataforma Tecnológica Española de Tecnologías Disruptivas

UCAM UNIVERSIDAD

tecdual
ASOCIACIÓN ESPAÑOLA DE EMPRESAS DE TECNOLOGÍAS DUALES

Startup Community

Plataforma Biotech
Spanish Biotech Platform

enterprise europe network

APTenisa
Programa de ideación y aceleración de startups

Cofinanciado por:

enisa

APTE

Servicio Madrileño de Salud
SaludMadrid
Comunidad de Madrid

C-LAB
Alto Rendimiento para Emprendedores

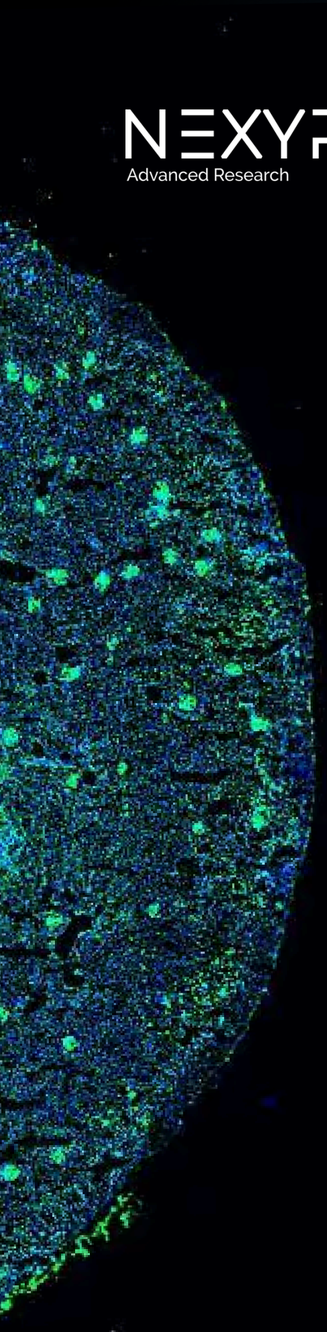
Cáceres

RCC HARVARD.EDU 25 YEARS

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VE RI TAS
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This is the power of multi-omics intelligence.

This is Nexyra.

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connect@nexyraresearch.com