

Genómica aplicada: emprender desde la ciencia



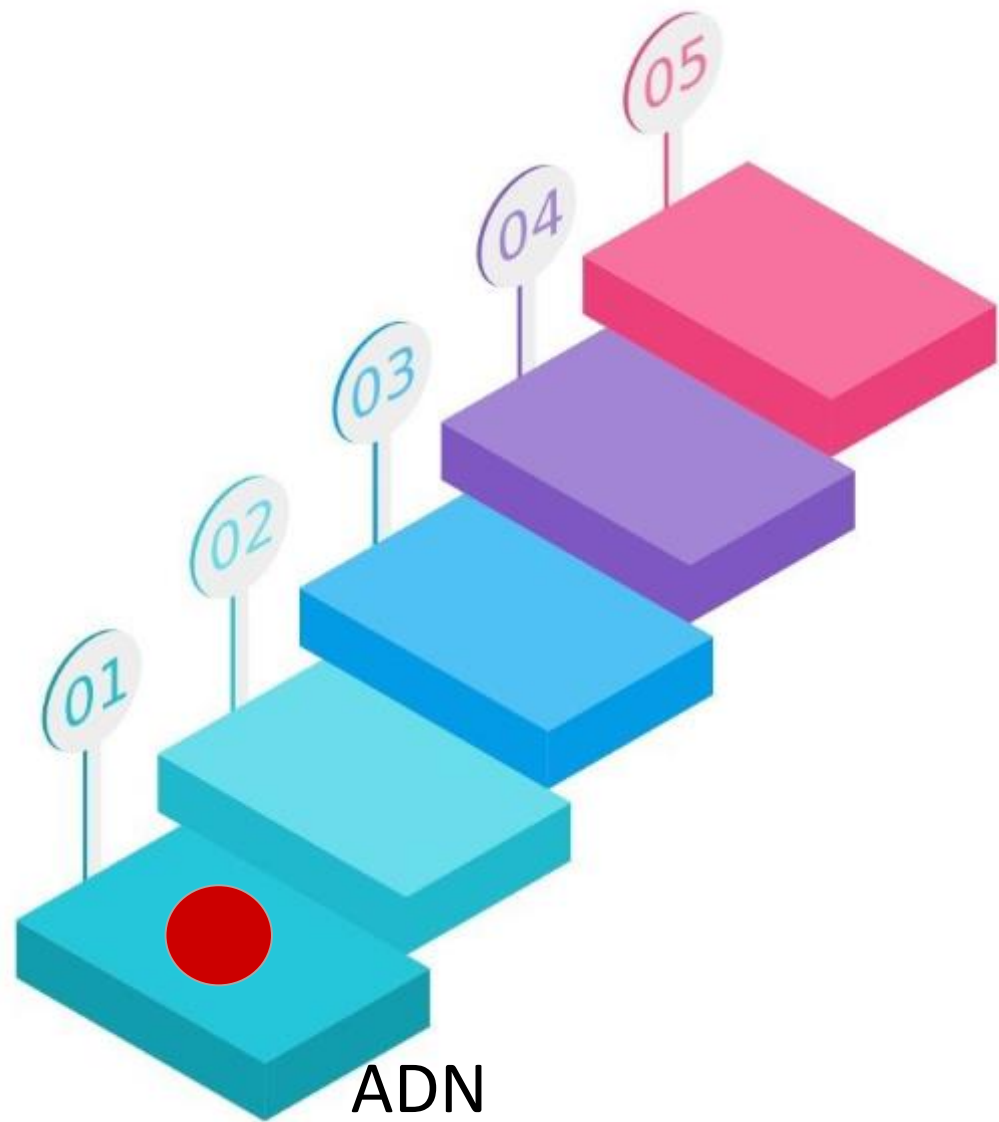
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multiomix.org

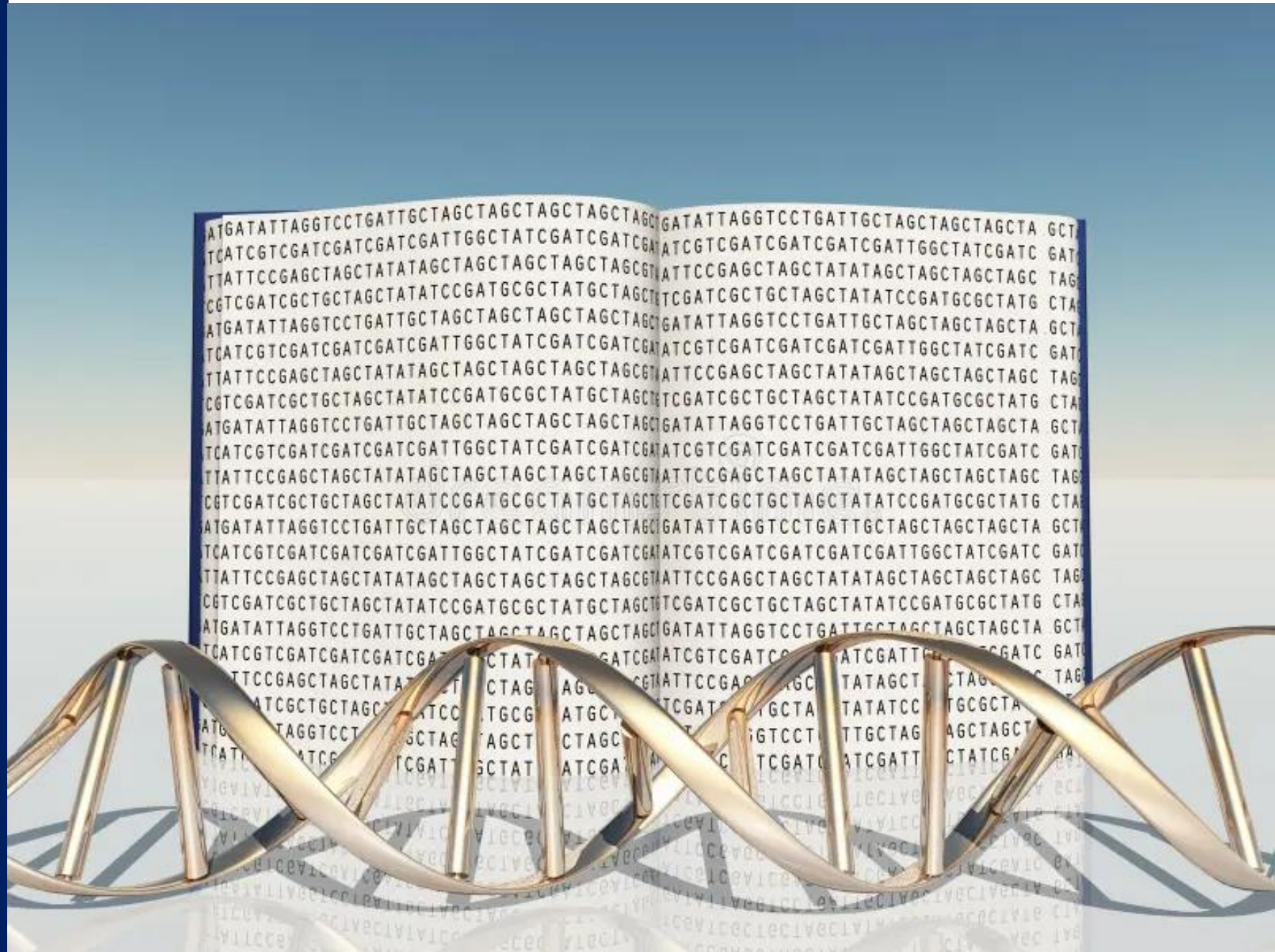


Genómica

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DNA

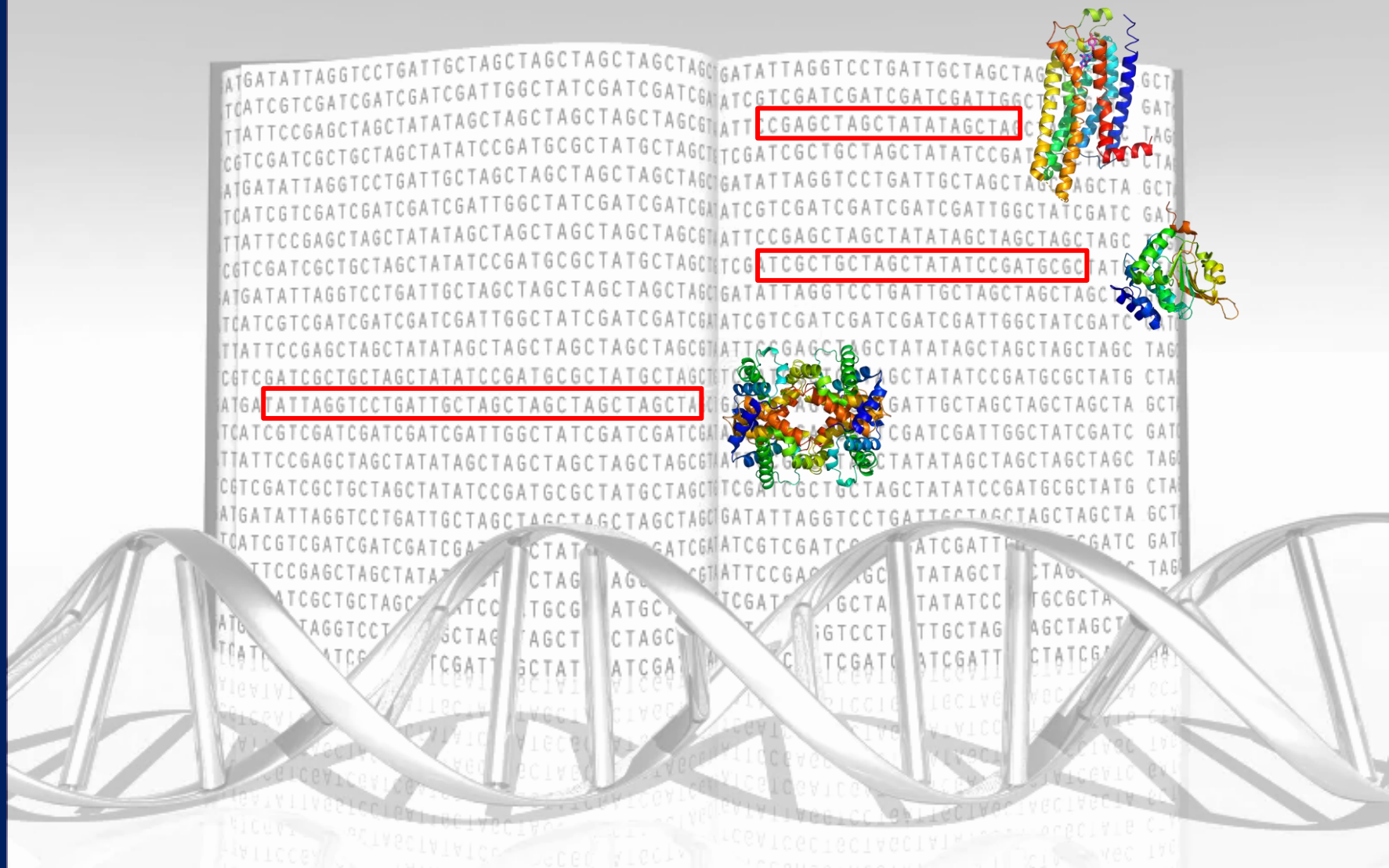


Genes

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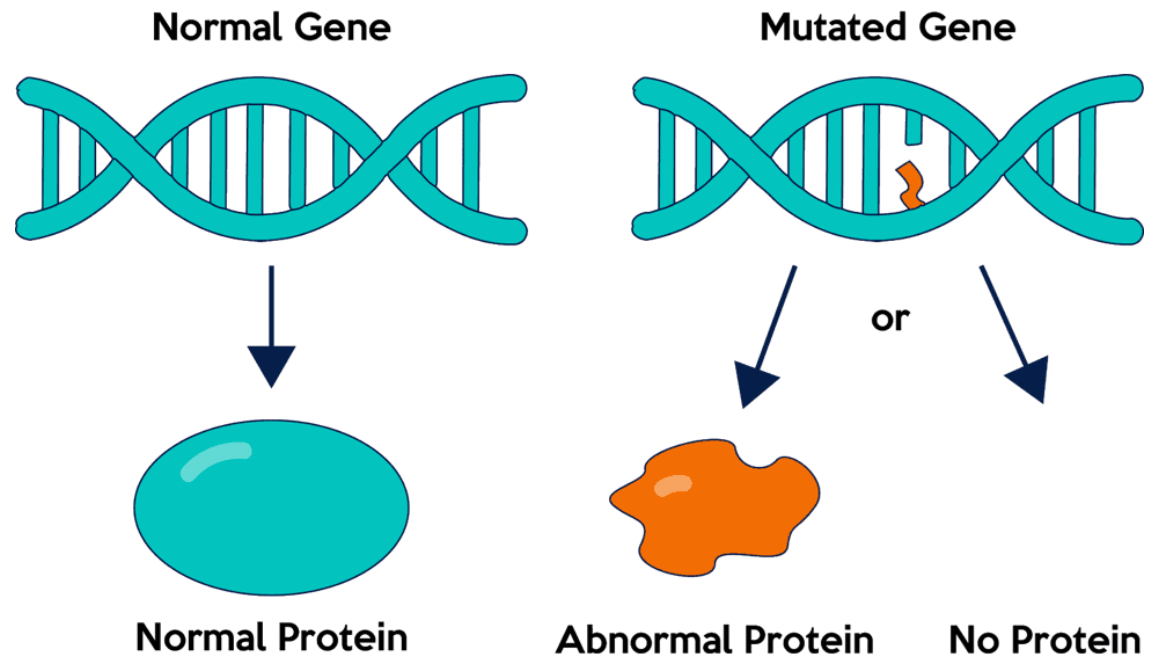


**Gen →
Proteína**



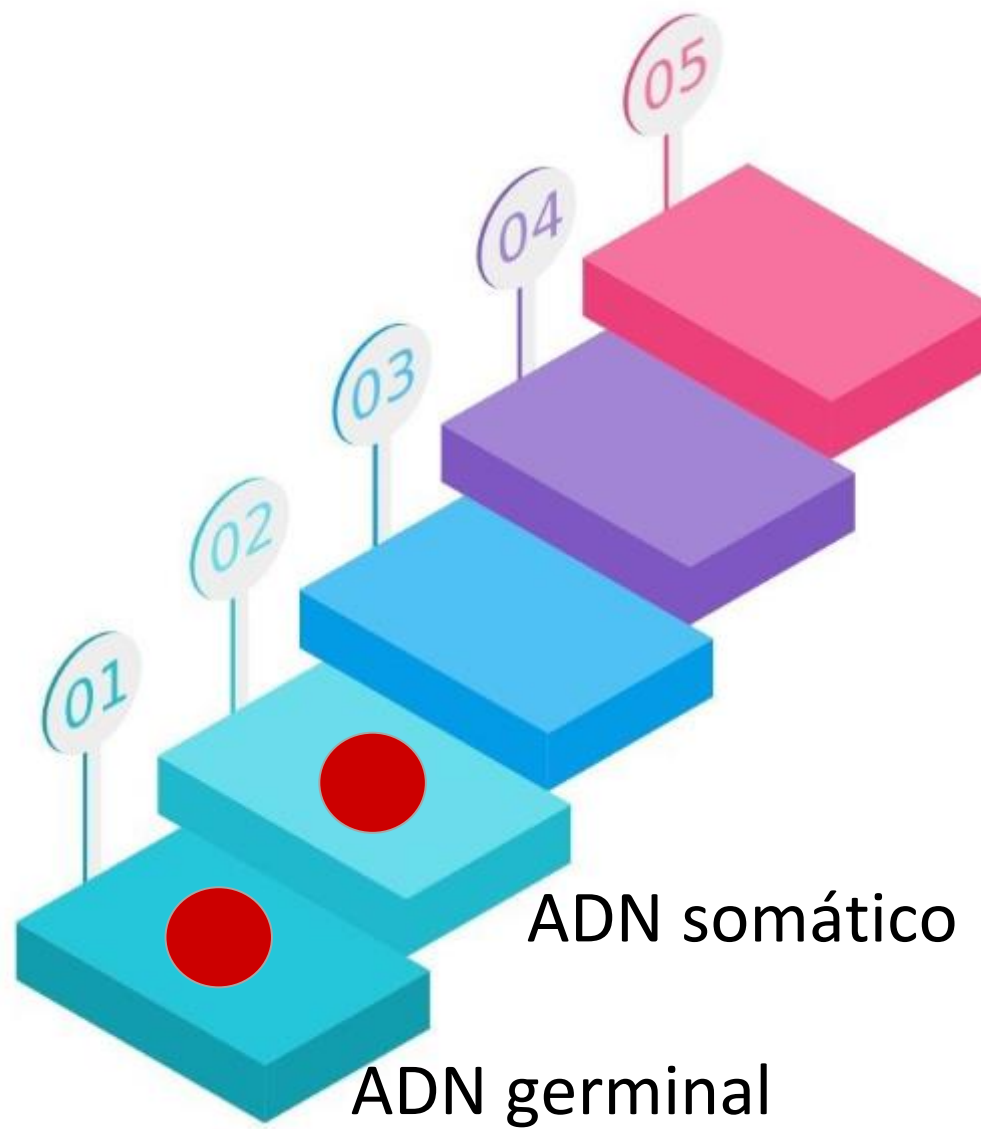
Gene mutation consequences

multiomix.org



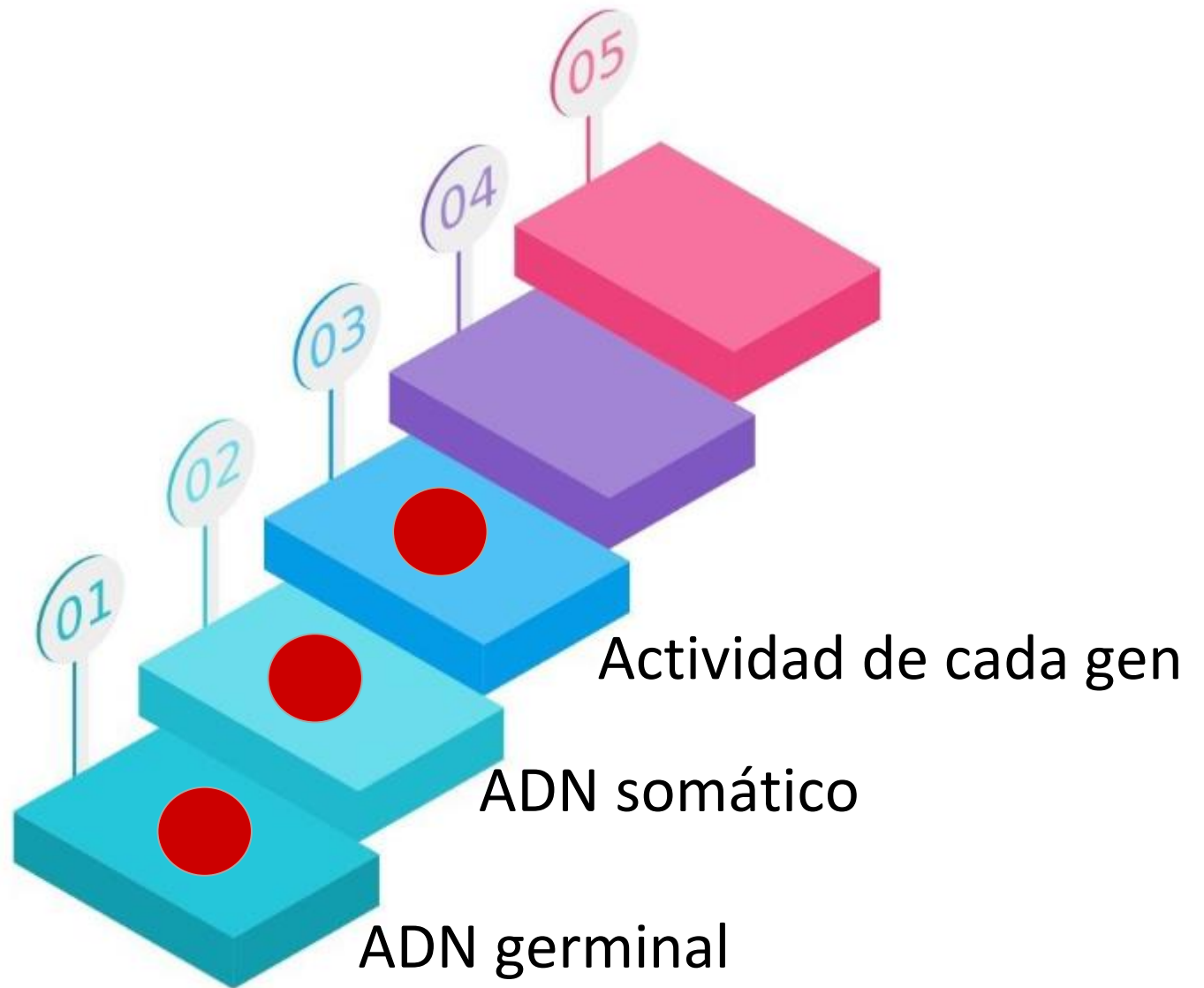
Capas de datos moleculares

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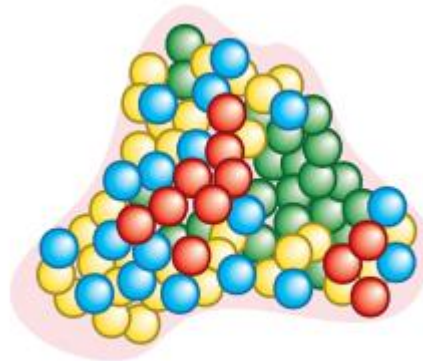
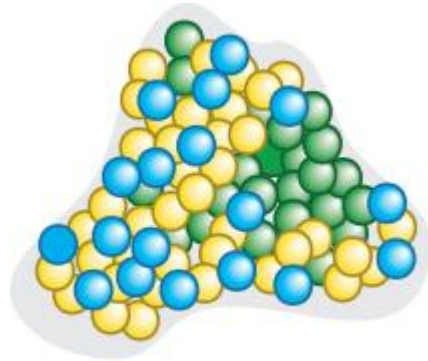
Capas de datos moleculares

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Actividad de cada gen en un tejido

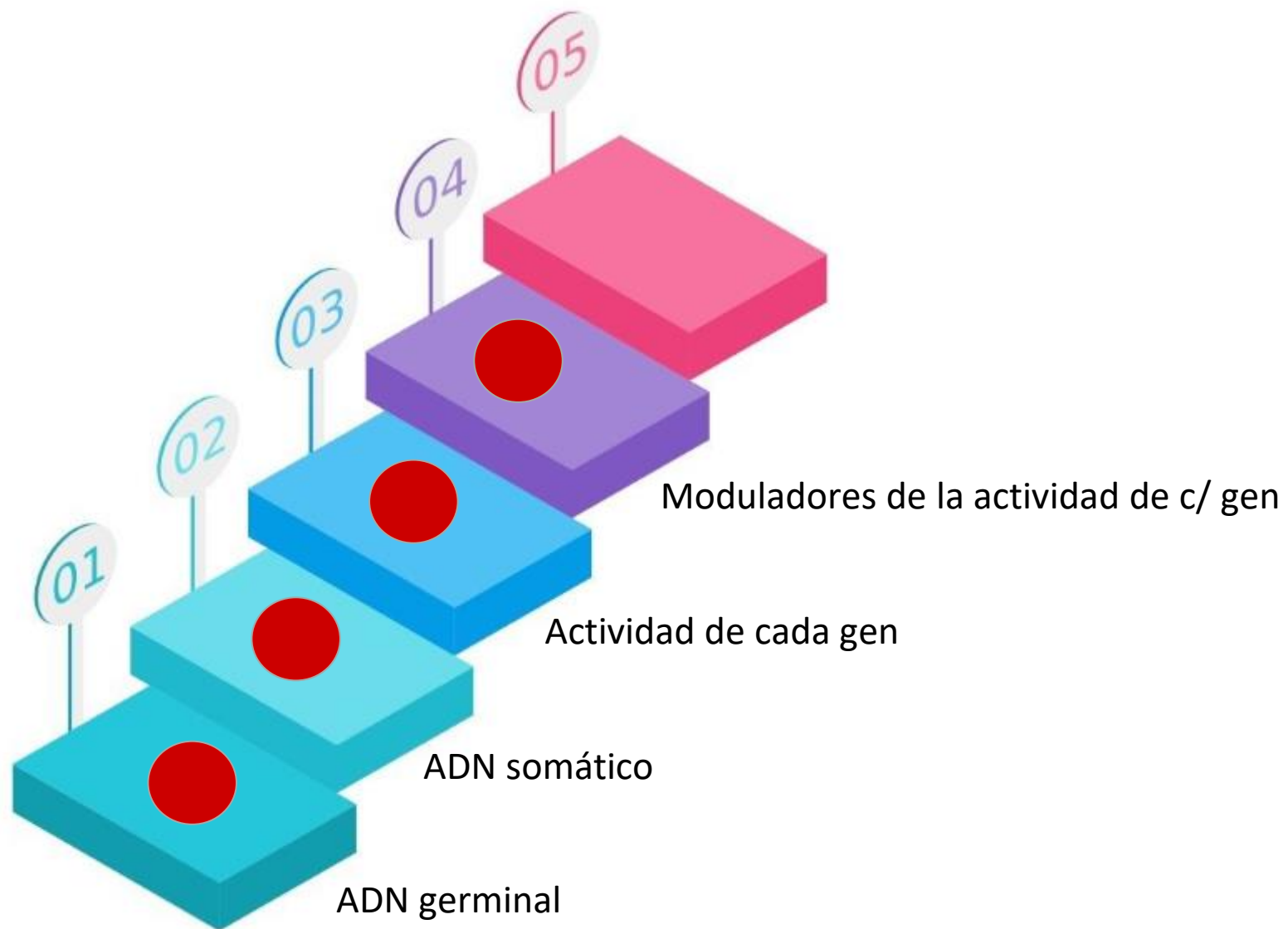
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Gene	Gene expression
AADACL3	
AADACL4	
ACADM	
ACTG1P6	
ACTL8	
ADGRL2	
ADPRHL2	
AMPD2	
ARID1A	
ATXN7L2	
AZIN2	
BCAS2	
BCL10	
....	

Capas de datos moleculares

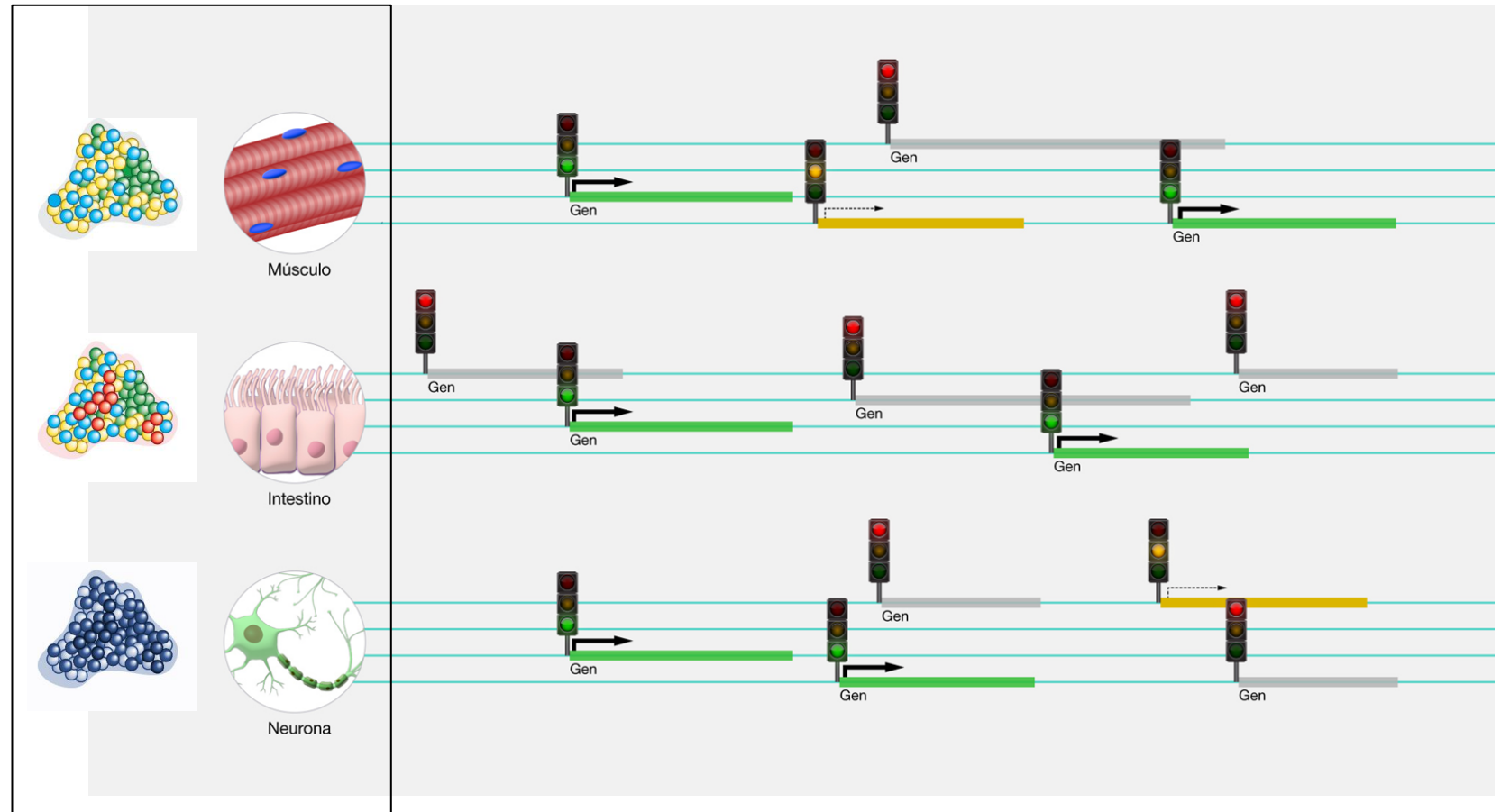
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Modulación de la actividad génica

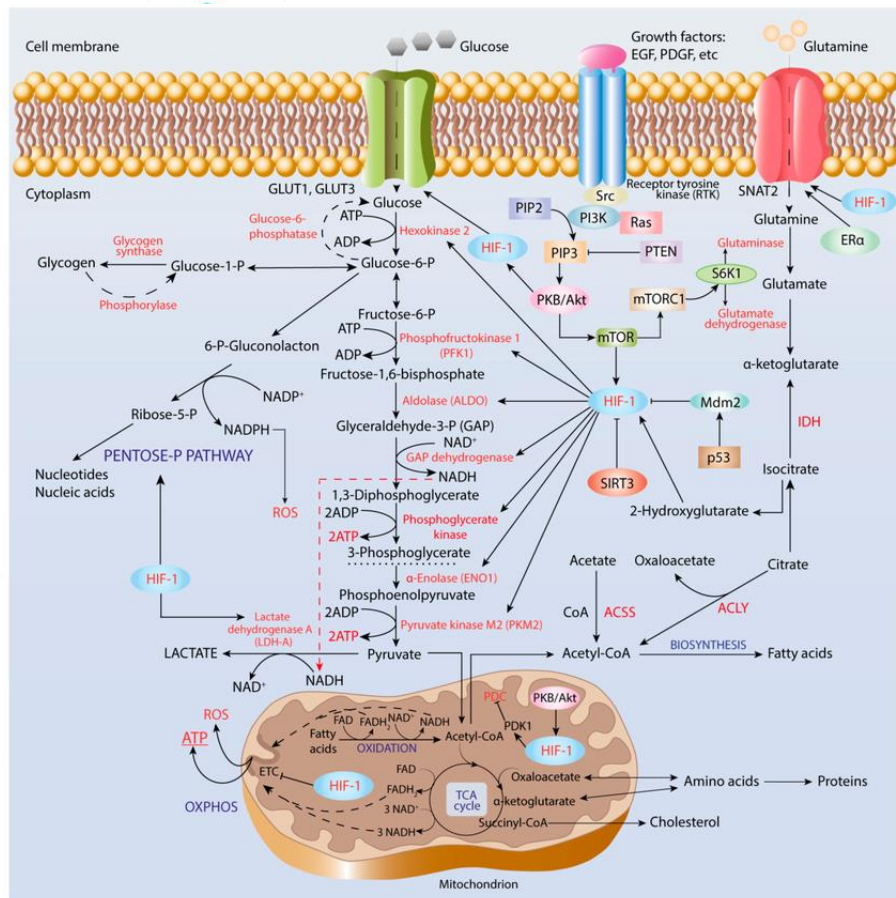
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Elementos moleculares en un tejido que regulan, cuáles genes se prenden y cuáles no



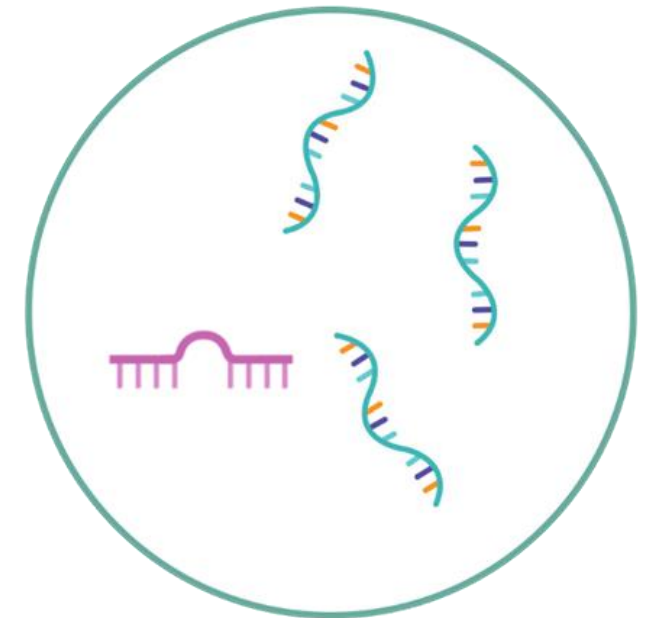
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biomarker discovery



Select

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Biomarker





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biomarker discovery

Nuevos blancos terapéuticos

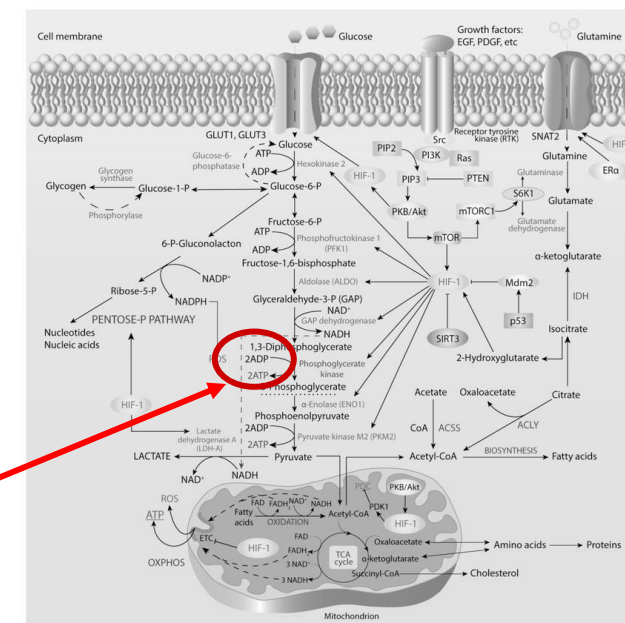
Marcador
diagnóstico



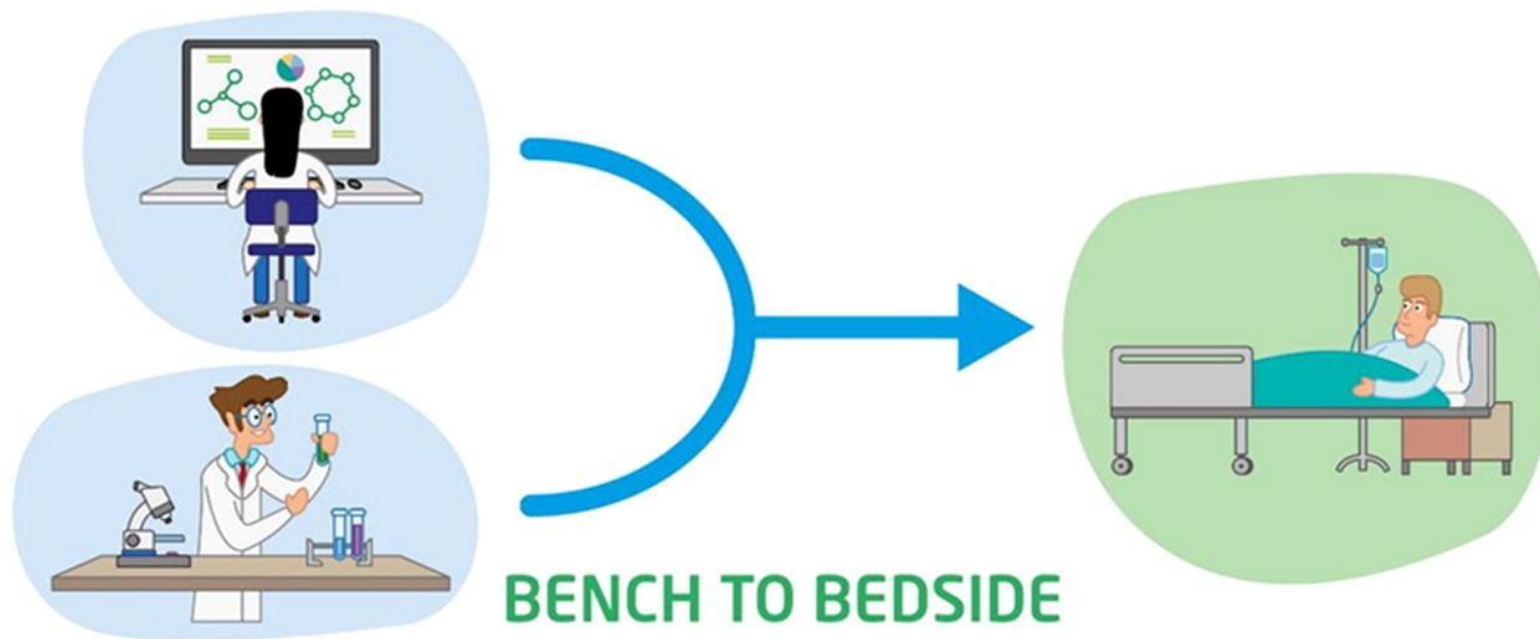
Marcador para
predecir progresión



Marcador para predecir
efectividad de tratamiento



**Cómo
emprender
desde las
ciencias
biomédicas?**



**Cómo
emprender
desde las
ciencias
biomédicas?**





¿Qué problemas médicos queremos resolver? ¿Es viable implementarlo?

**Confirmar sospecha clara de una
enfermedad genética puntual**

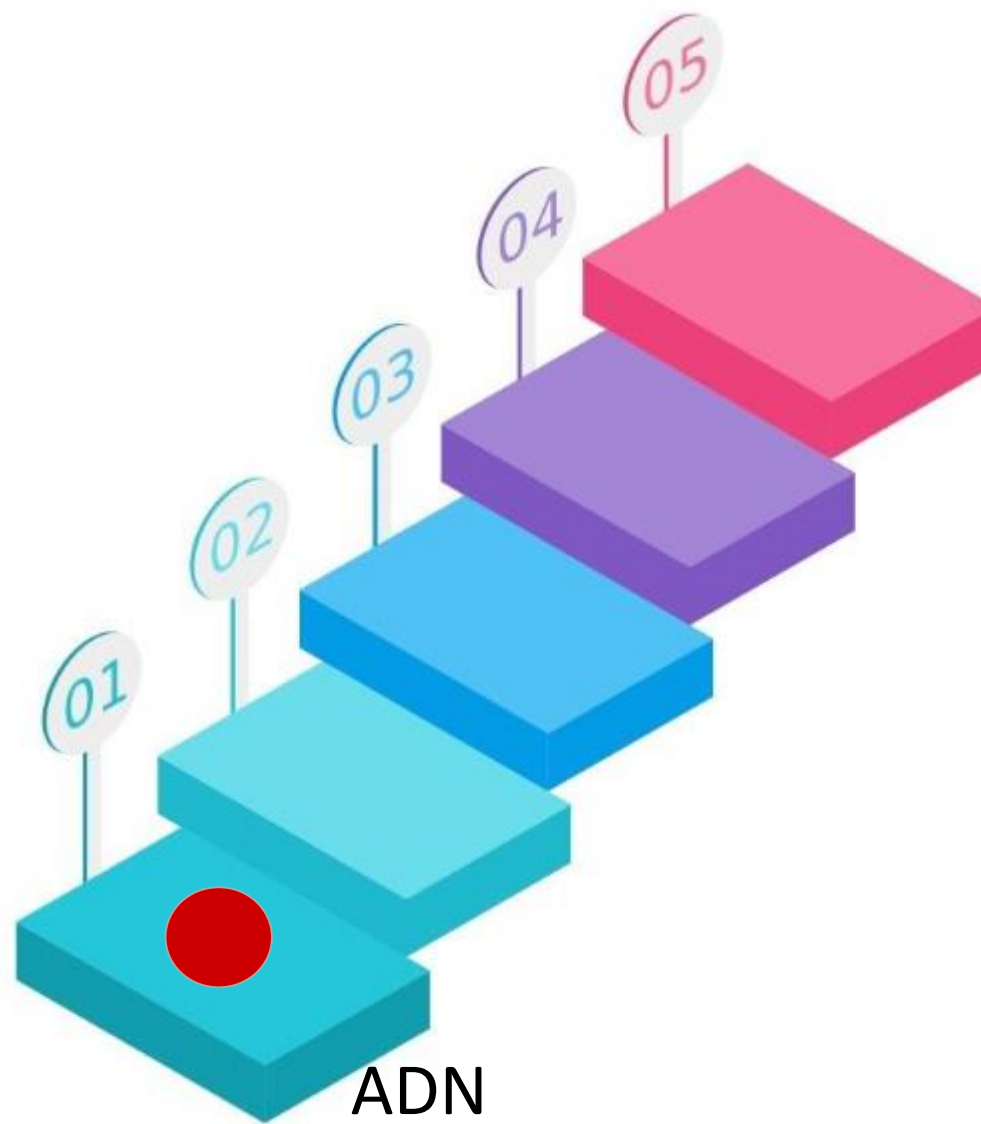
Paciente con síntomas sin diagnóstico

**Familiar ya diagnosticado. Individuo sin
síntoma**

Farmacogenómica

Genómica

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Otras empresas





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SCREENING



Genomics and rare disease suspected patient identification



Heredimap

Family assessments for rare diseases



genetinet

Democratizing genetic counseling



DIAGNOSIS



Smart, at-scale sample management & Rare disease diagnostic programs support



Molecular testing for rare diseases

AI images



BASIC RESEARCH



AI-based platform for identifying prognostic and predictive biomarkers



AI-based testing for drug-induced transcriptomic regulator modulations



TREATMENT

Patient support program

Rare disease expertise applied to patient engagement

Meet the expert & preceptorship

Training events for rising stars

RWE platform

Smart and practical solution for registering patient follow-up



Medical writing

End-to-end support for publishing

pvlitup

Automated literature scraping for continuous education and pharmacovigilance automation



Treatment & follow-up alerts for patients with rare diseases

Business Intelligence

Personalized and Specialized LLMs Through Fine-Tuning and RAGs

Ad-Hoc Medical Software Development and AI Application on Your Data



Procesos internos

Sistemas de soporte a
la toma de decisiones
médicas

Asistentes de
desarrollo basados en
IA

Extracción de términos
médicos desde
lenguaje natural

LLMs propios





SCREENING



Genomics and rare disease suspected patient identification



Heredimap

Family assessments for rare diseases



genetinet

Democratizing genetic counseling



DIAGNOSIS



Smart, at-scale sample management & Rare disease diagnostic programs support



BASIC RESEARCH

Form for diagnostic biomarkers

g for regulator



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RWE platform

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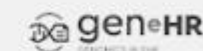


Medical writing

End-to-end support for publishing

pvlitup

Automated literature scraping for continuous education and pharmacovigilance automation



Treatment & follow-up alerts for patients with rare diseases



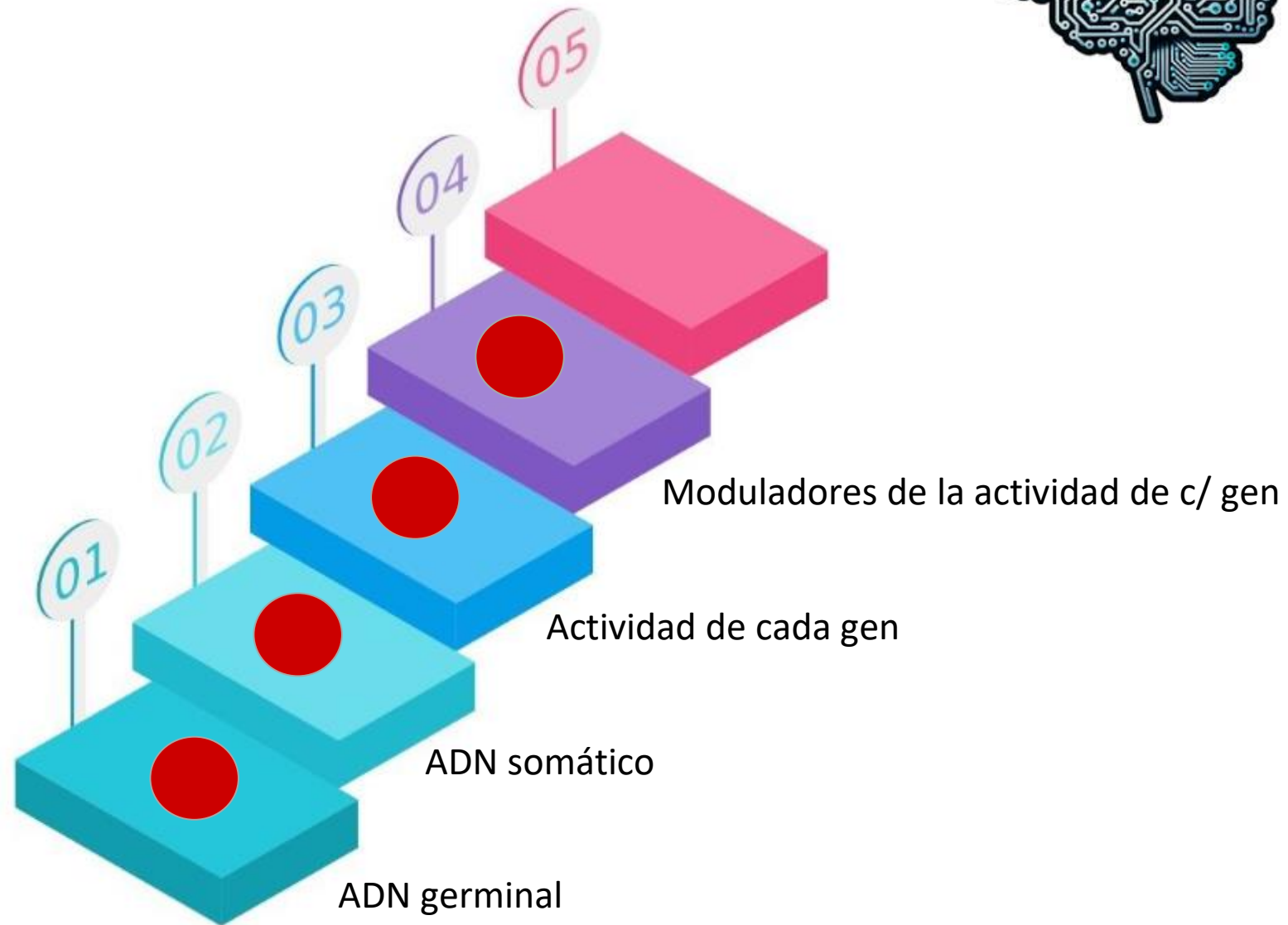
RAGs

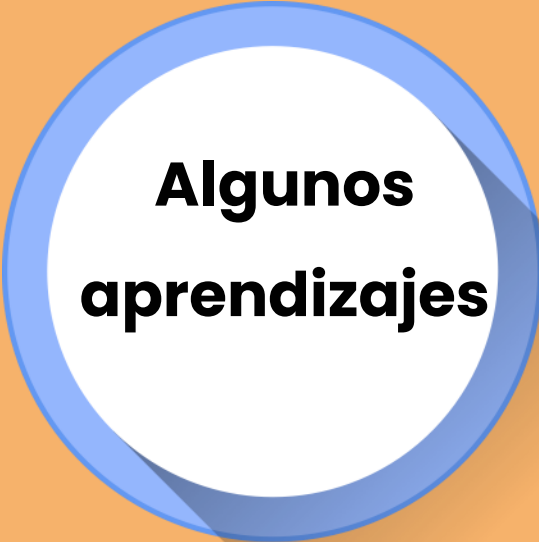
our Data

Investigación, exploración e Innovación continua

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Investigación, exploración e Innovación continua





Algunos aprendizajes

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- Tener claro el propósito
- No enamorarse de la solución sin identificar claramente el problema que vamos a resolver
- Foco láser al principio, flexibilidad para pivotear en el mediano plazo
- Nunca perder la rama de innovación.
- Equipo y trabajo interdisciplinario.
- Buen ambiente laboral.
- Al principio pulpo. Luego profesionalizar áreas.

Gracias!

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