

Computación en el ISPA

Juan Ramón Tejedor
RyC Researcher CINN-CSIC, ISPA, IUOPA CIBERER

4ª Jornada del C3 – 26 Junio 2026
Sala de Grados de la Escuela Politécnica de Mieres

Epigenética del cáncer y nanomedicina

Instituto de Investigación Sanitaria del Principado de Asturias (ISPA-FINBA)



Centro de Investigación en Nanomateriales y Nanotecnología (CINN - CSIC)



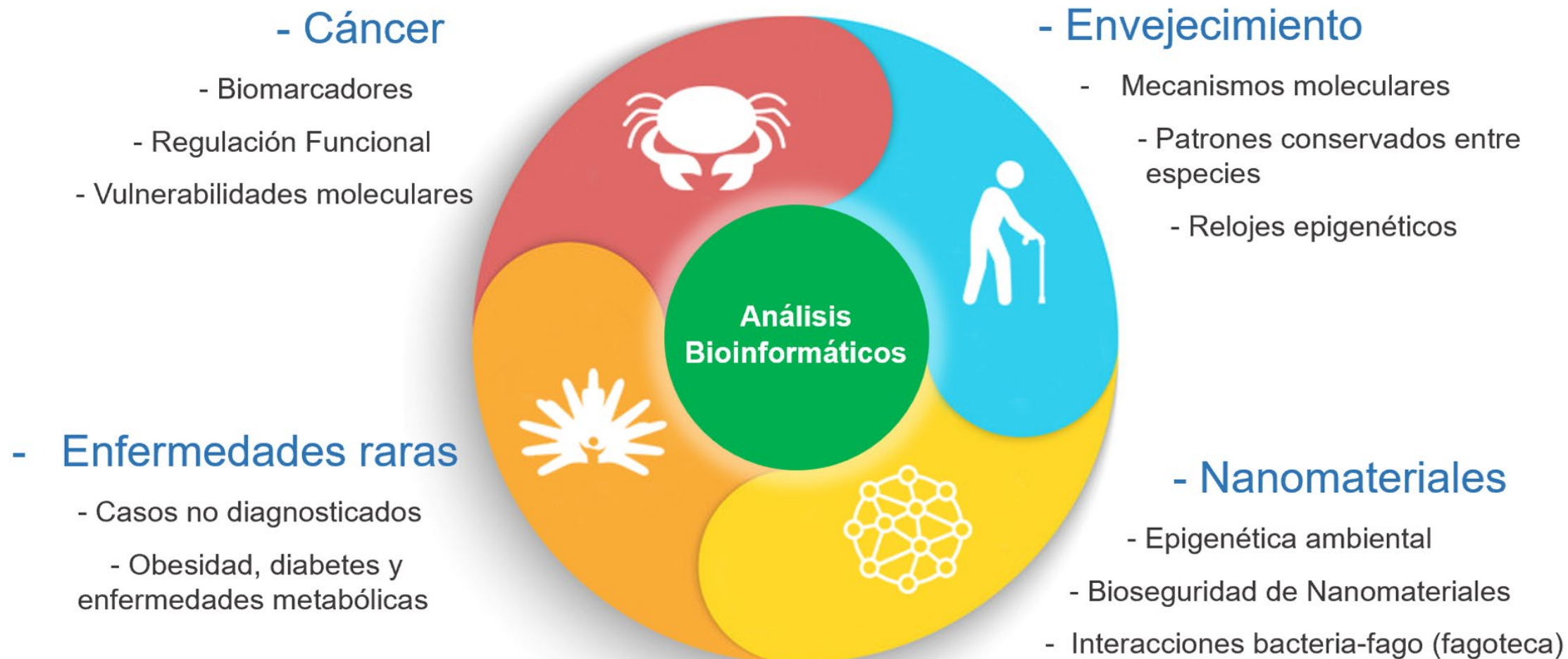
Instituto Universitario de Oncología del Principado de Asturias



Centro de Investigación Biomédica en Red en Enfermedades Raras



Líneas de Investigación



Infraestructura computacional

Nausicaa



Intel(R) Xeon(R) CPU E5-2660 v4
@ 2.00GHz, 14 núcleos (dual),
128 GB RAM
2 GB GPU
8 TB STORAGE HDD

CatBus



Intel(R) Xeon(R) CPU W-2295
@ 3,0 GHz, 18 núcleos (dual),
128 GB RAM
2 GB GPU
1 TB SSD. 10 TB STORAGE HDD

Trinity



Intel(R) Xeon(R) Gold CPU 5220R
@ 2,2 GHz, 24 núcleos (dual).
128 GB RAM
4 GB GPU
2 TB SSD. 10 TB STORAGE HDD

Totoro



Intel(R) Xeon(R) CPU E5-2630
@ 2.8GHz, 12 núcleos (dual)
64 GB RAM
2 GB GPU
4 TB STORAGE HDD

Maokai



Intel(R) Xeon(R) Gold CPU 5220R
@ 2,2 GHz, 24 núcleos (dual).
128 GB RAM
4 GB GPU
2 TB SSD. 10 TB STORAGE HDD

Synology DS1819+



150 TB



Synology RS3621RPxs

120 TB

Galban



AMD Ryzen Threadripper CPU PRO
9975WX @ 4,0GHz, 32 núcleos (dual),
256 GB RAM
20 GB GPU
8 TB SSD. 28 TB STORAGE HDD

Prometeo



AMD Ryzen Threadripper CPU 7970X
@ 4,0 GHz, 32 núcleos (dual).
128 GB RAM
16 GB GPU
2 TB SSD. 20 TB STORAGE HDD

Atlas



AMD Ryzen Threadripper CPU 9960X
@ 4,2GHz, 24 núcleos (dual).
128 GB RAM
16 GB GPU
4 TB SSD. 16 TB STORAGE HDD

Epimeteo



AMD Ryzen Threadripper CPU 9960X
@ 4,2GHz, 24 núcleos (dual).
256 GB RAM
96 GB GPU
2 TB SSD. 20 TB STORAGE HDD

Gandalf



AMD Ryzen Threadripper CPU 7970X
@ 4,0GHz, 32 núcleos (dual).
256 GB RAM
8 GB GPU
2 TB SSD. 20 TB STORAGE HDD

Infraestructura computacional

Supercomputación Castilla y León (SCAYLE)



Caléndula

Intel Xeon Platinum 8462Y
308 TB RAM
300 nodes (18120 cores)
STORAGE LUSTRE 3 PB

Supercomputador DRAGO CSIC



Drago

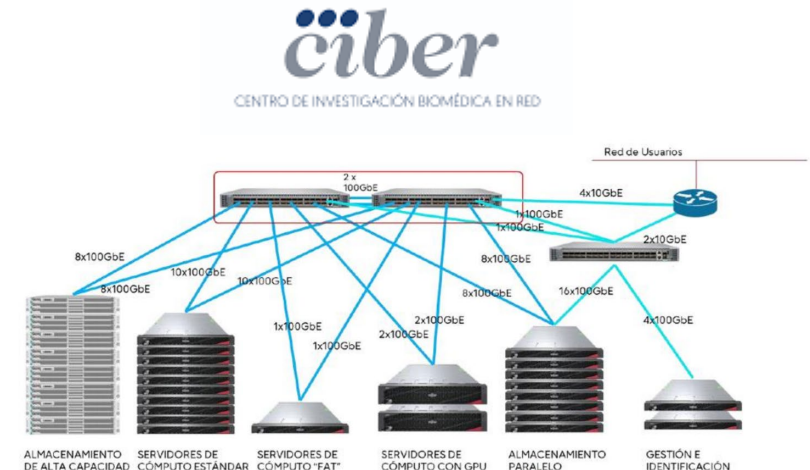
Intel Xeon Gold 6248R
111 TB RAM
283 nodes (15088 cores)
STORAGE LUSTRE 5 PB

IUOPA Cluster for Oncological Research (C3)

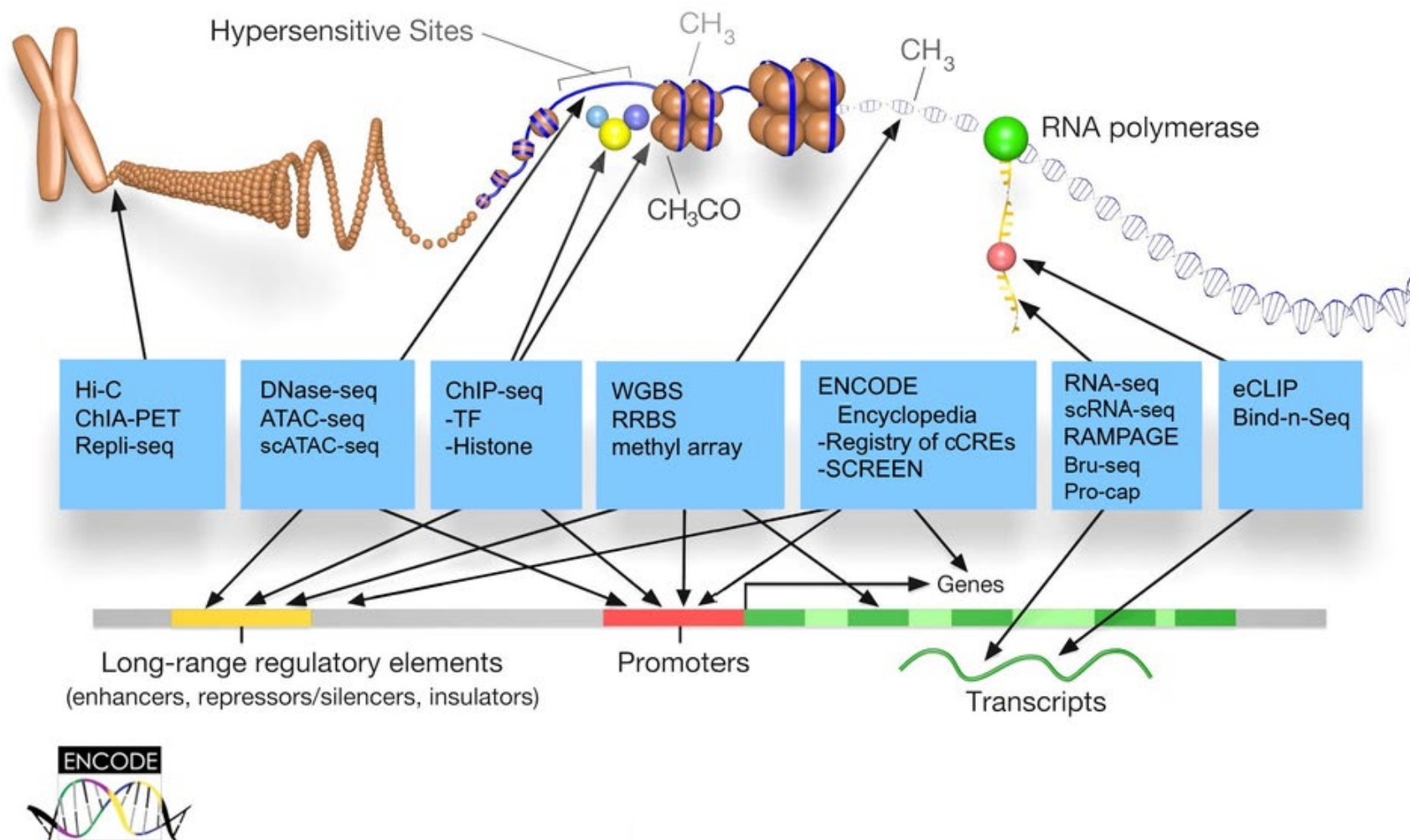


ICOR

Intel Xeon Gold 6430
2 nodes CPU (128 cores)
1 node GPU (64 cores, 2 x
NVIDIA L4 (24 GB VRAM)
1.5 TB RAM
STORAGE 219 TB



Regulación de la expresión génica



Tipología del dato

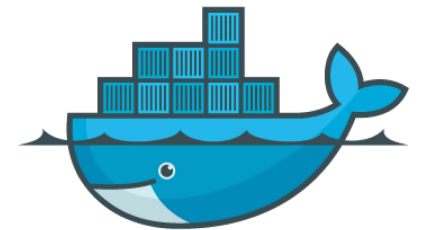
[illegible][illegible]

Illumina_ID	Mean	Log2_Mean	SD	NBeads	File_Root	File_Color
10600313	510	8.9943534369	194	11	GSM2277217_79...	Grn
10600322	11199	13.451082294	1195	12	GSM2277217_79...	Grn
10600328	5820	12.506803438	679	19	GSM2277217_79...	Grn
10600336	1921	10.907641804	431	9	GSM2277217_79...	Grn
10600345	2308	11.172427509	459	17	GSM2277217_79...	Grn
10600353	5098	12.315715658	539	11	GSM2277217_79...	Grn
10600357	3756	11.874981348	882	12	GSM2277217_79...	Grn
10600364	1389	10.439830884	251	7	GSM2277217_79...	Grn



```
<?xml xmlns:="" >
<msRun scanCount="7161" ... >
...
<msInstrument>
<msManufacturer category="msManufacturer" value="ThermoFinnigan" />
<msModel category="msModel" value="LCQ Deca XP" />
<msIonisation category="msIonisation" value="ESI" />
<msMassAnalyzer category="msMassAnalyzer" value="Ion Trap" />
<msDetector category="msDetector" value="EMT" />
<software type="acquisition" name="Xcalibur" version="1.3 SP 1" />
</msInstrument>
...
<scan num="1" msLevel="1" peaksCount="795" ... >
<peaks precision="32" byteOrder="network" pairOrder="m/z-int">Q8hACEkweKBDyW ...</peaks>
<scan num="2" msLevel="2" peaksCount="774" ... >
<precursorMz precursorIntensity="722826">1221.89</precursorMz>
<peaks precision="32" byteOrder="network" pairOrder="m/z-int">Q7mH5kZ8hABCQ3q7Rw ...</peaks>
</scan>
<scan num="3" msLevel="2" peaksCount="91" ... >
<precursorMz precursorIntensity="722826">1122.02</precursorMz>
<peaks precision="32" byteOrder="network" pairOrder="m/z-int">Q6mpkZTUABDpOCk ...</peaks>
</scan>
</msRun>
```

Herramientas y software



Identificación de genes de fusión en B-ALL

Totoro

Procesador Intel(R) Xeon(R) CPU E5-2630 @ 2.8GHz, 12 núcleos (dual). 64 GB RAM (type DDR3 ECC / speed 1333MHz). 2 GB NVIDIA GEFORCE GKT107. 4 x 1TB WESTERN DIGITAL Velociraptor WD1000DHTZ 3,5" 10000 RPM 64 MB CACHÉ



Gustavo
Fernández Bayón



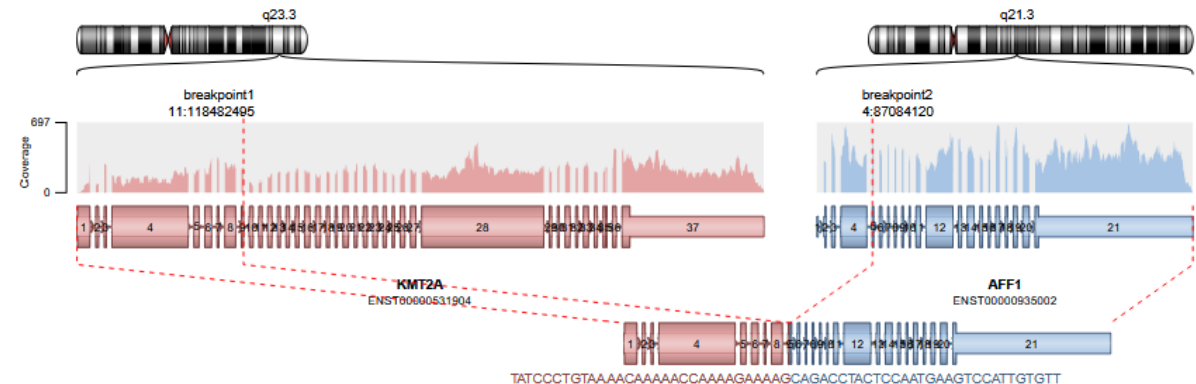
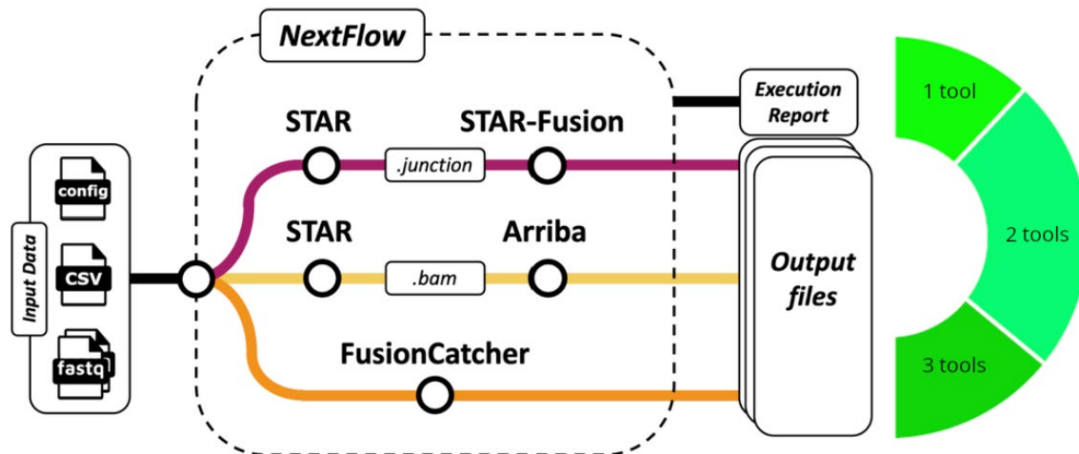
Darío
Bagües Castro

Project Objective

- **Cohort:** 1366 ALL (Acute Lymphoblastic Leukemia) patients.
- **Input:** High-depth Paired-End RNA-seq.
- **Goal:** Identify driver fusions (e.g., *KMT2A/MLL* rearrangements).

Bioinformatics Workflow

- **Mapping:** STAR 2-pass (Chimeric).
- **Fusions:** Arriba + visualization.
- **Quantification:** RSEM (expression) + StringTie (de novo assembly).



Análisis multiómico en enfermedades raras

Nausicaa

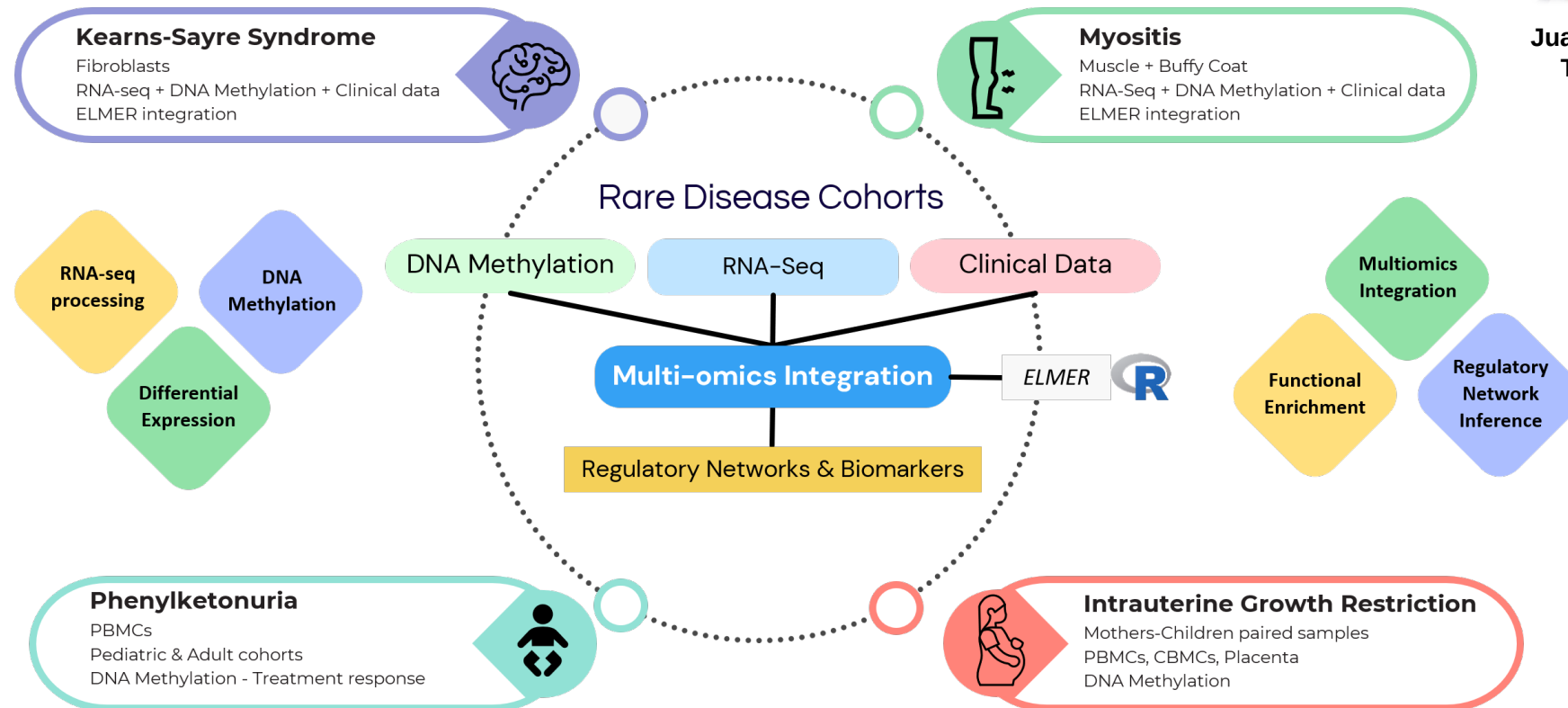
Procesador Intel(R) Xeon(R) CPU E5-2660 v4 @ 2.00GHz, 14 núcleos (dual), 128 GB RAM (type DDR4 ECC / speed 2133MHz), 2 GB NVIDIA QUADRO K620 GM107. 4 x 2 TB SEAGATE CONSTELLATION 3,5", 7200 RPM 128 MB CACHÉ



Juan Ramón
Tejedor



Antonio
Pérez-Campoamor



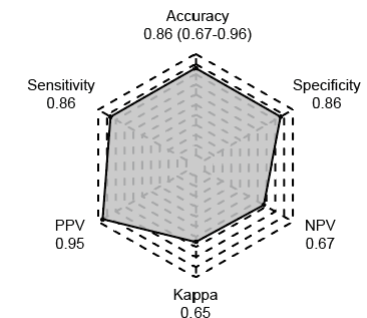
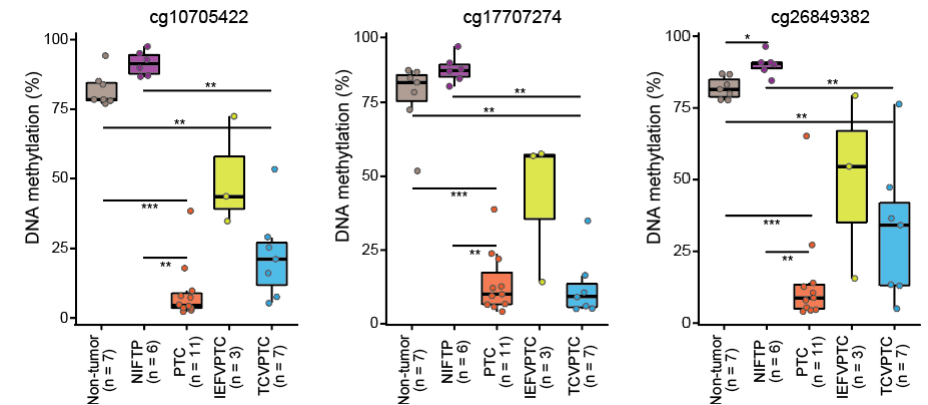
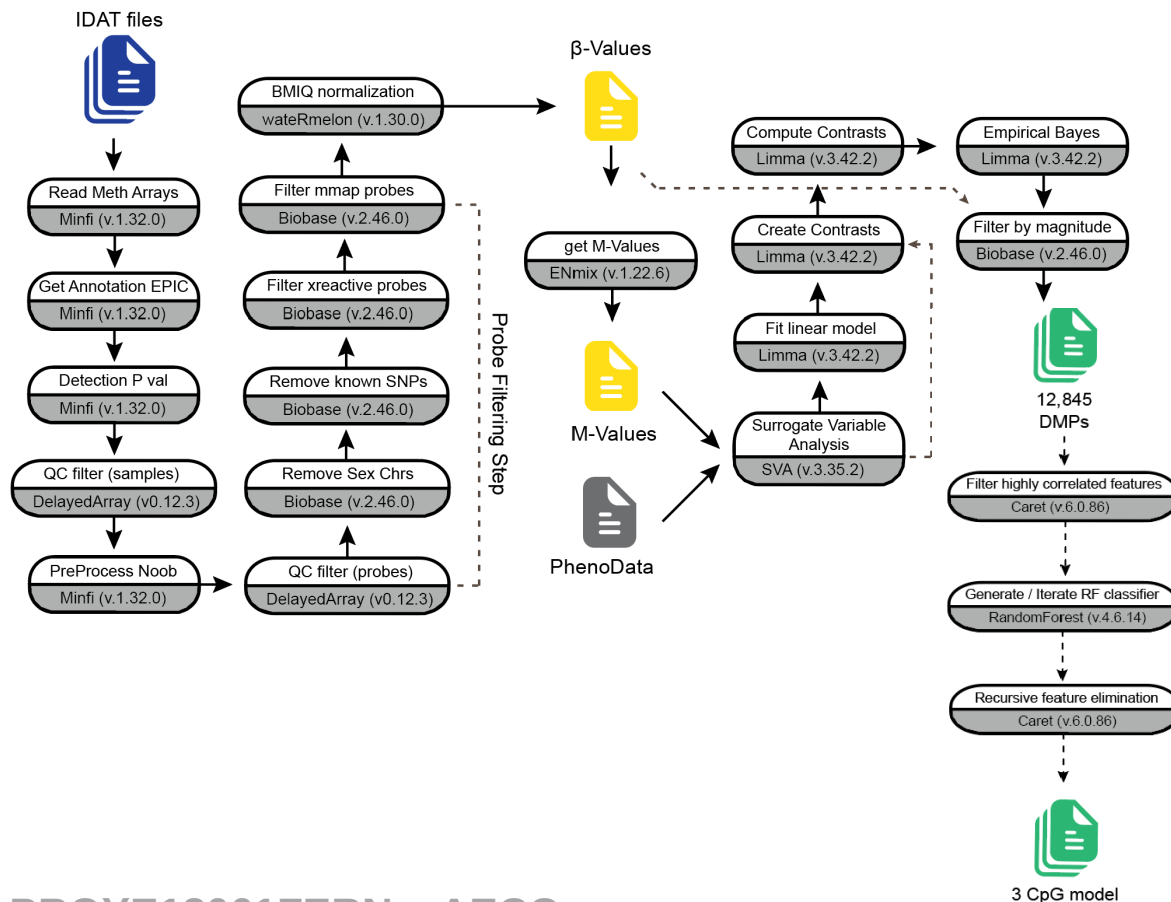
Identificación de biomarcadores en cáncer



Juan Ramón Tejedor

Catbus

Procesador Intel(R) Xeon(R) CPU W-2295 @ 3,0 GHz, 4,6 GHz Turbo, 18 núcleos (dual), 128 GB RAM (type DDR4 ECC / speed 2666 MHz), 2 GB NVIDIA GEFORCE GT 1030. 1 TB Samsung 860 QVO 2,5" SSD, SATA 6 Gb/s (hasta 550 MB/s | 520 MB/s). 10 TB SEAGATE IRONWOLF PRO 3,5", 7200 RPM 256 MB CACHÉ



Identificación de alteraciones conformacionales

Catbus

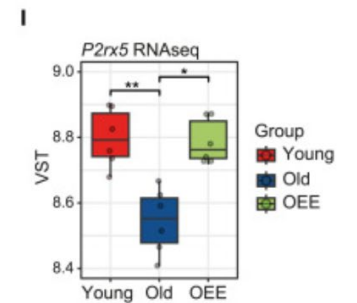
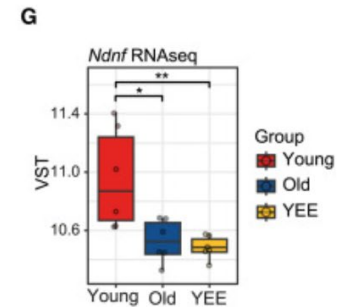
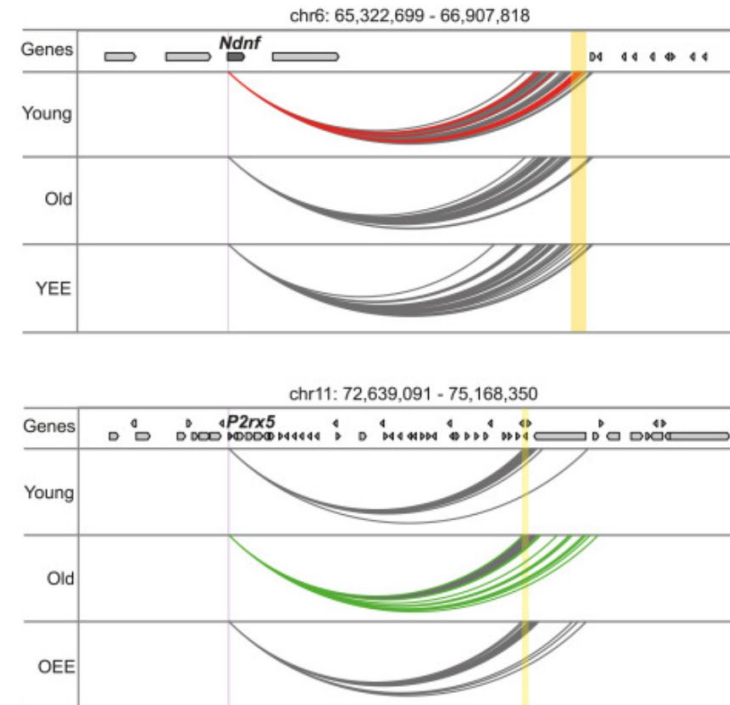
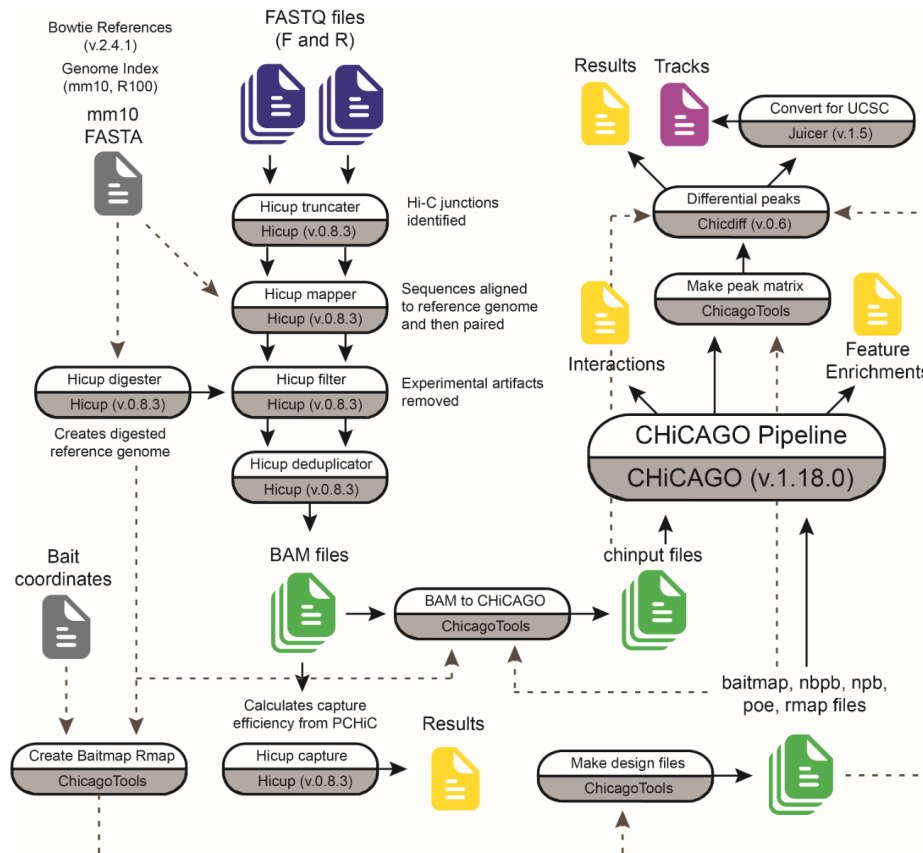
Procesador Intel(R) Xeon(R) CPU W-2295 @ 3,0 GHz, 4,6 GHz Turbo, 18 núcleos (dual), 128 GB RAM (type DDR4 ECC / speed 2666 MHz), 2 GB NVIDIA GEFORCE GT 1030. 1 TB Samsung 860 QVO 2,5" SSD, SATA 6 Gb/s (hasta 550 MB/sR | 520 MB/sW). 10 TB SEAGATE IRONWOLF PRO 3,5", 7200 RPM 256 MB CACHÉ



Juan Ramón
Tejedor



Javier
Gancedo Verdejo



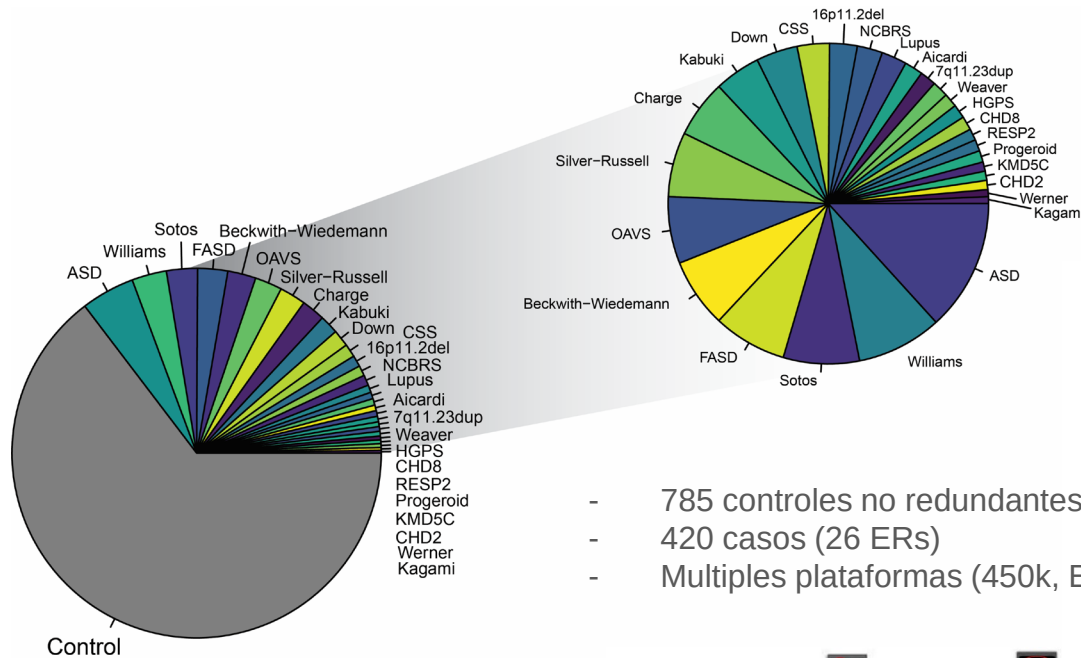
Diagnostico en ER mediante epifirmas y ML

Trinity

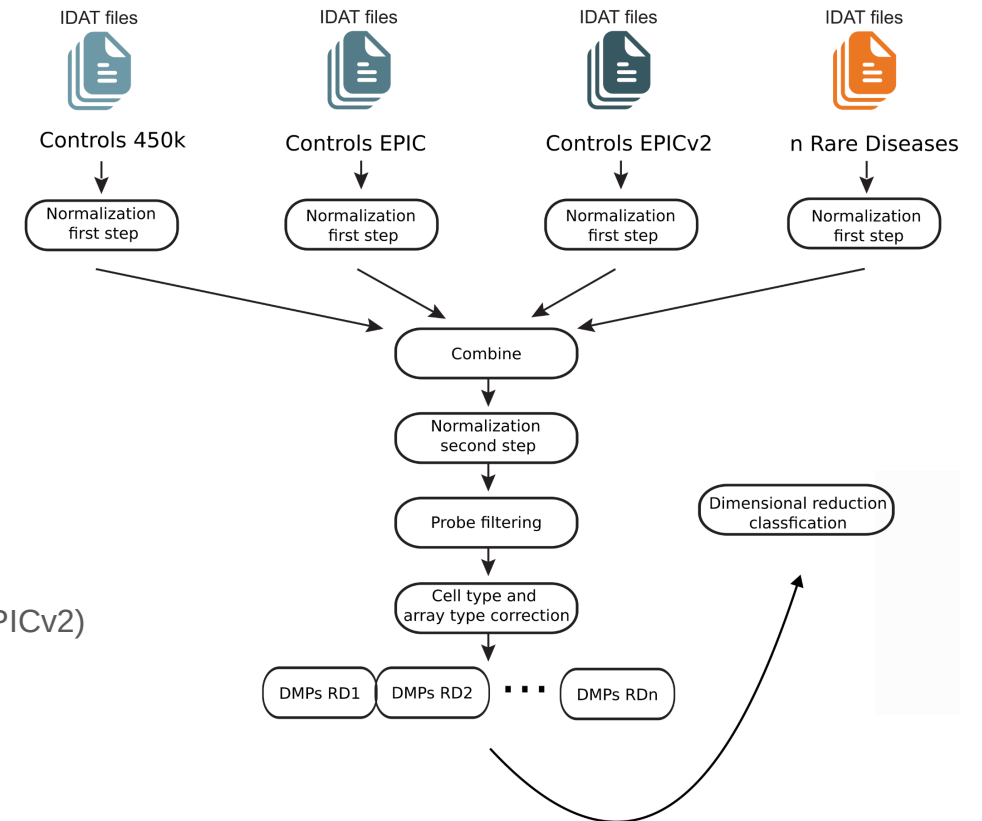
Procesador Intel(R) Xeon(R) Gold CPU 5220R @ 2,2 GHz, 4,0 GHz Turbo, 24 núcleos (dual). 128 GB RAM (type DDR4 ECC / speed 2666 MHz) 4 GB NVIDIA GEFORCE GTX 1650. 2 TB SAMSUNG 970 EVO PLUS M.2, PCIe NVMe (hasta 3500 MB/R, 3300 MB/W). 10 TB SEAGATE IRONWOLF PRO 3,5", 7200 RPM 256 MB CACHÉ



Lidia Sainz-Iedo



- 785 controles no redundantes
- 420 casos (26 ERs)
- Múltiples plataformas (450k, EPIC, EPICv2)



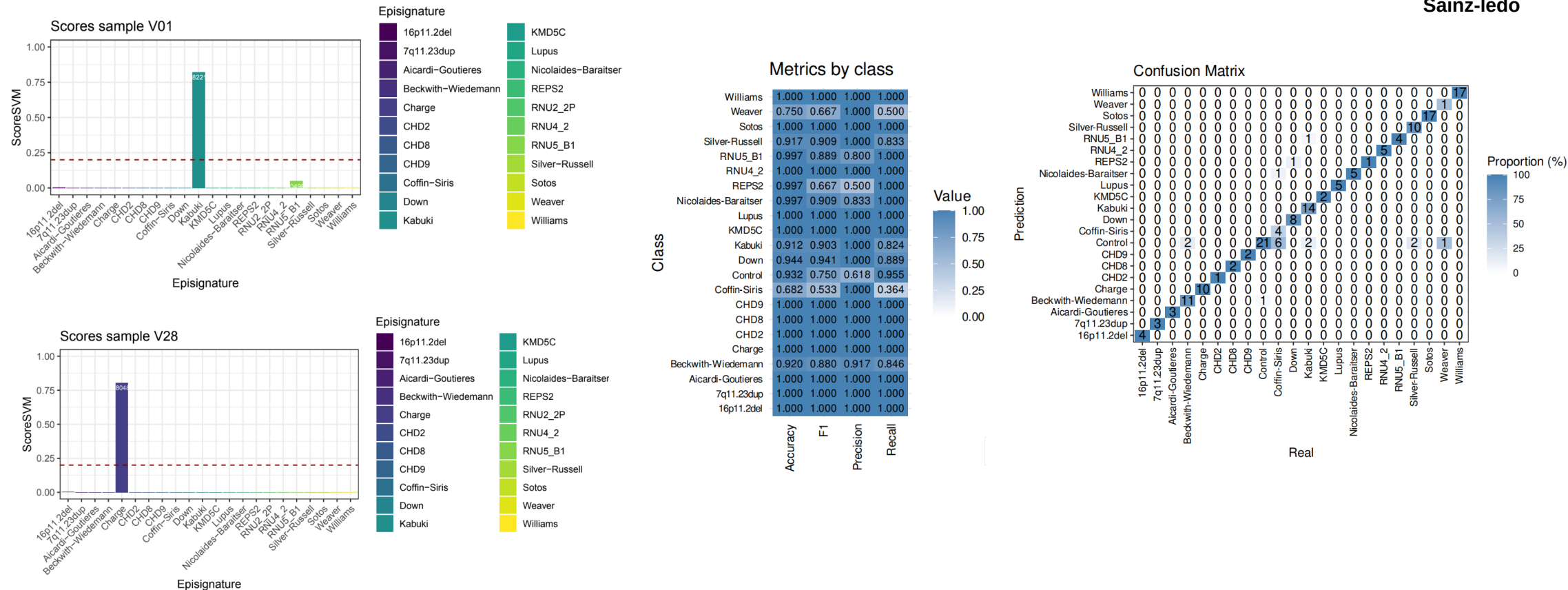
Diagnostico en ER mediante epifirmas y ML



Lidia
Sainz-Iedo

Trinity

Procesador Intel(R) Xeon(R) Gold CPU 5220R @ 2,2 GHz, 4,0 GHz Turbo, 24 núcleos (dual). 128 GB RAM (type DDR4 ECC / speed 2666 MHz) 4 GB NVIDIA GEFORCE GTX 1650. 2 TB SAMSUNG 970 EVO PLUS M.2, PCIe NVMe (hasta 3500 MB/R, 3300 MB/W). 10 TB SEAGATE IRONWOLF PRO 3,5", 7200 RPM 256 MB CACHÉ



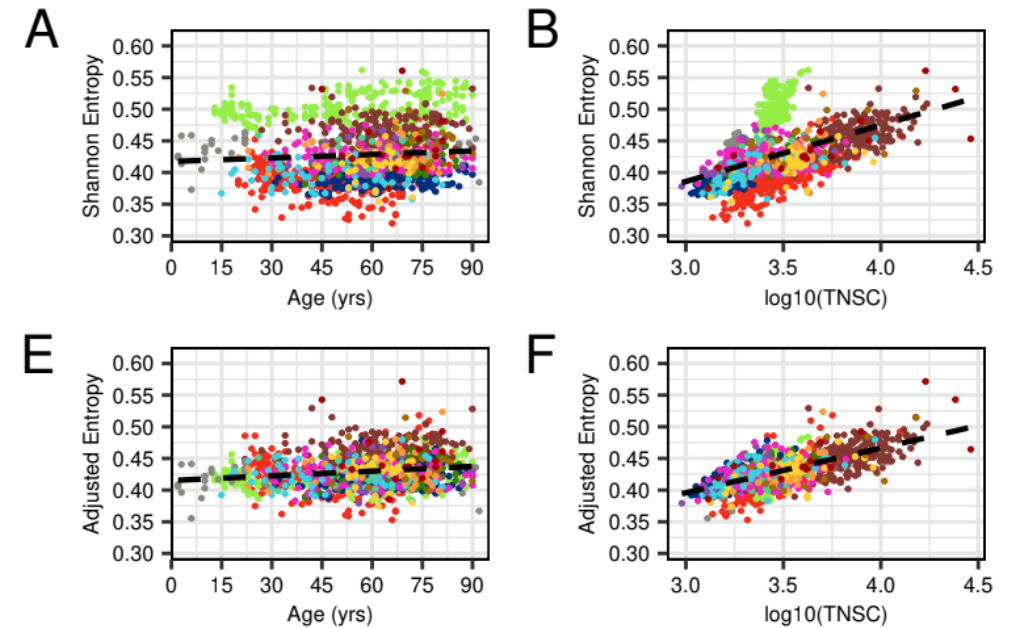
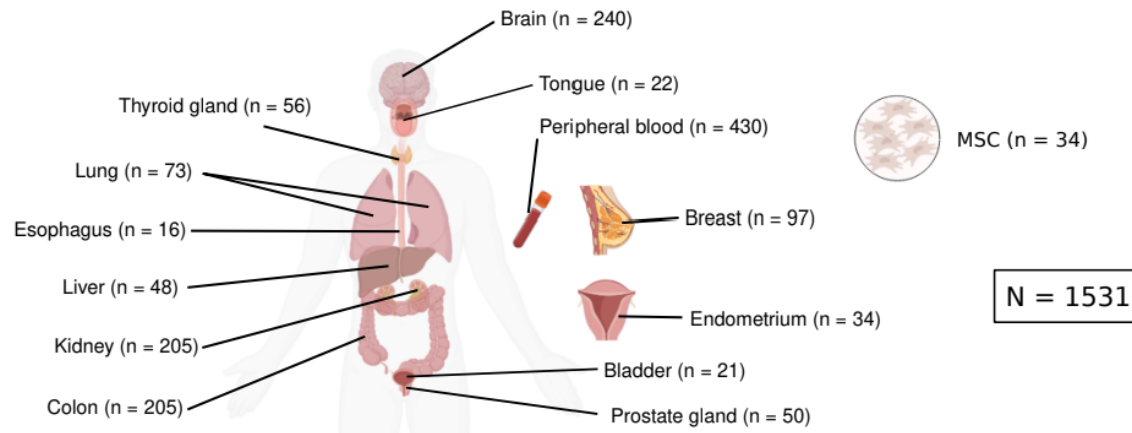
Relojes epigenéticos y deriva epigenética

Maokai

Procesador Intel(R) Xeon(R) Gold CPU 5220R @ 2,2 GHz, 4,0 GHz Turbo, 24 núcleos (dual), 128 GB RAM (type DDR4 ECC / speed 2666 MHz). 4 GB NVIDIA GEFORCE GTX 1650. 2 TB SAMSUNG 970 EVO PLUS M.2, PCIe NVMe (hasta 3500 MB/R, 3300 MB/W). 10 TB SEAGATE IRONWOLF PRO 3,5", 7200 RPM 256 MB CACHÉ



Juan José
Alba-Linares



Desarrollo de un fagograma digital - Fagoteca

Prometeo

Procesador AMD Ryzen Threadripper CPU 7970X @ 4,0GHz -5,3GHz, 32 núcleos (dual). 128 GB RAM (type DDR5 ECC / speed 4800 MHz). 16 GB PNY NVIDIA RTX A4000 - GDDR6, 6144 Núcleos CUDA. 2 TB CORSAIR CORE XT MP600 NVMe PCIe M.2 SSD (hasta 5000 MB/R, 4400 MB/W). 20 TB SEAGATE IRONWOLF PRO 3,5", 7200 RPM, 256 MB DE CACHE



Carlos Colmenero
Gomez-Cambronero

Fagoteca One Health

Una nueva estrategia frente a bacterias multirresistentes

La Fagoteca es una colección de bacteriófagos frente a bacterias patógenas de relevancia para la salud humana, animal y medio ambiental. Esta iniciativa está promovida por el CSIC para dar respuesta a la demanda de nuevos agentes antimicrobianos.

Descubre Fagoteca One Health

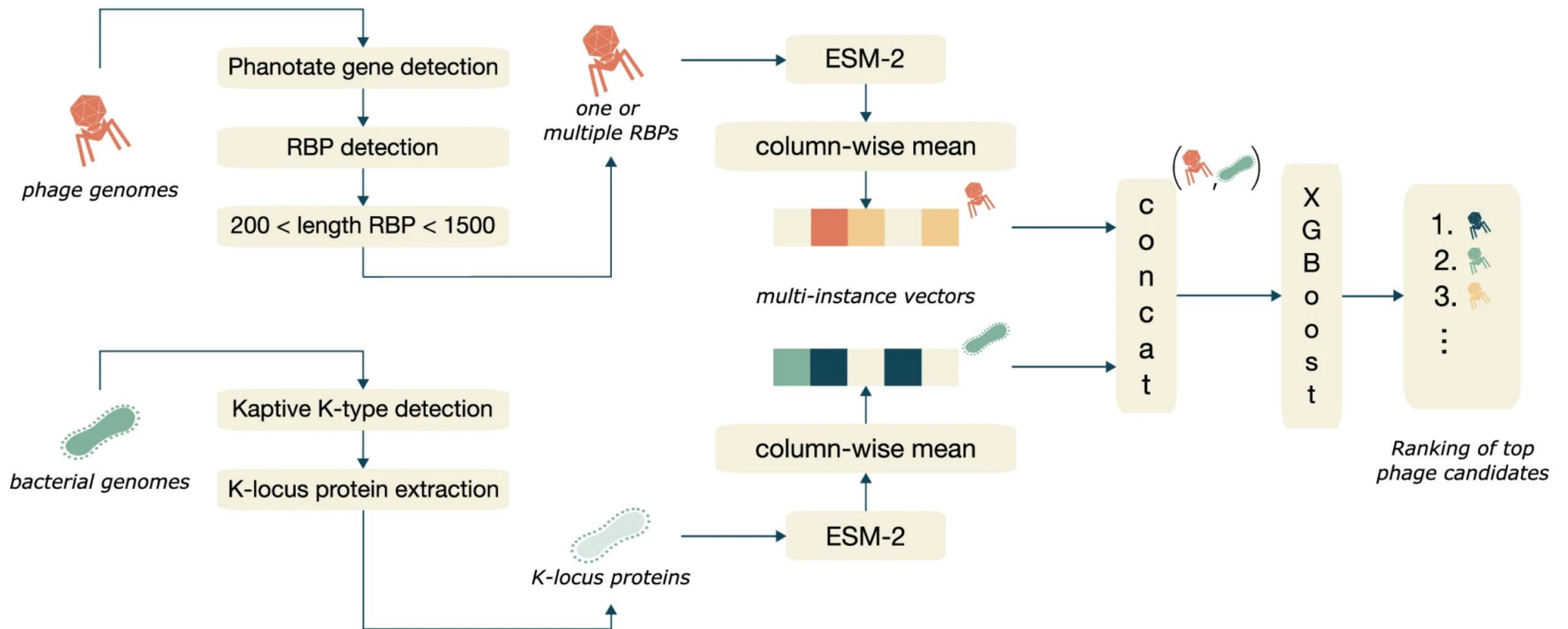
Desarrollo de un fagograma digital - Fagoteca

Prometeo

Procesador AMD Ryzen Threadripper CPU 7970X @ 4,0GHz -5,3GHz, 32 núcleos (dual). 128 GB RAM (type DDR5 ECC / speed 4800 MHz). 16 GB PNY NVIDIA RTX A4000 - GDDR6, 6144 Núcleos CUDA. 2 TB CORSAIR CORE XT MP600 NVMe PCIe M.2 SSD (hasta 5000 MB/R, 4400 MB/W). 20 TB SEAGATE IRONWOLF PRO 3,5", 7200 RPM, 256 MB DE CACHE



Carlos Colmenero
Gomez-Cambronero



Alteraciones epigenéticas en tumores raros

Gandalf

Procesador AMD Ryzen Threadripper CPU 7970X @ 4,0GHz -5,3GHz, 32 núcleos (dual). 256 GB RAM (type DDR5 ECC / speed 4800 MHz). 8 GB PNY NVIDIA RTX A1000 - GDDR6, 2304 Núcleos CUDA. 2 TB CORSAIR CORE XT MP600 NVMe PCIe M.2 SSD (hasta 5000 MB/R, 4400 MB/W). 20 TB SEAGATE IRONWOLF PRO 3,5", 7200 RPM, 256 MB DE CACHE



Claudia
Martis Valle



Javier
Gancedo Verdejo

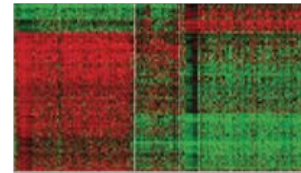
Macroadenomas hipofisarios no funcionantes



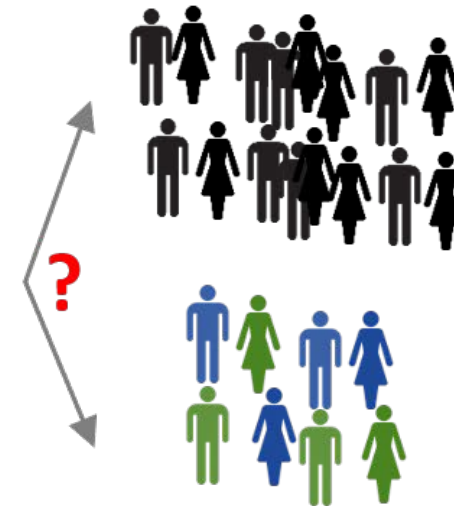
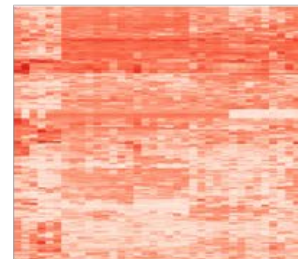
❖ Instituto de Biomedicina de Sevilla (IBiS)
❖ Instituto de Investigación Sanitaria y
Biomédica de Alicante (ISABIAL)

- 92 casos (13 recidiva / 79 no recidiva)

Infinium Methylation arrays



RNA-seq



Evolución
postquirúrgica
favorable

Recurrencia
Recidiva

Alteraciones epigenéticas en tumores raros

Gandalf

Procesador AMD Ryzen Threadripper CPU 7970X @ 4,0GHz -5,3GHz, 32 núcleos (dual). 256 GB RAM (type DDR5 ECC / speed 4800 MHz). 8 GB PNY NVIDIA RTX A1000 - GDDR6, 2304 Núcleos CUDA. 2 TB CORSAIR CORE XT MP600 NVMe PCIe M.2 SSD (hasta 5000 MB/R, 4400 MB/W). 20 TB SEAGATE IRONWOLF PRO 3,5", 7200 RPM, 256 MB DE CACHE

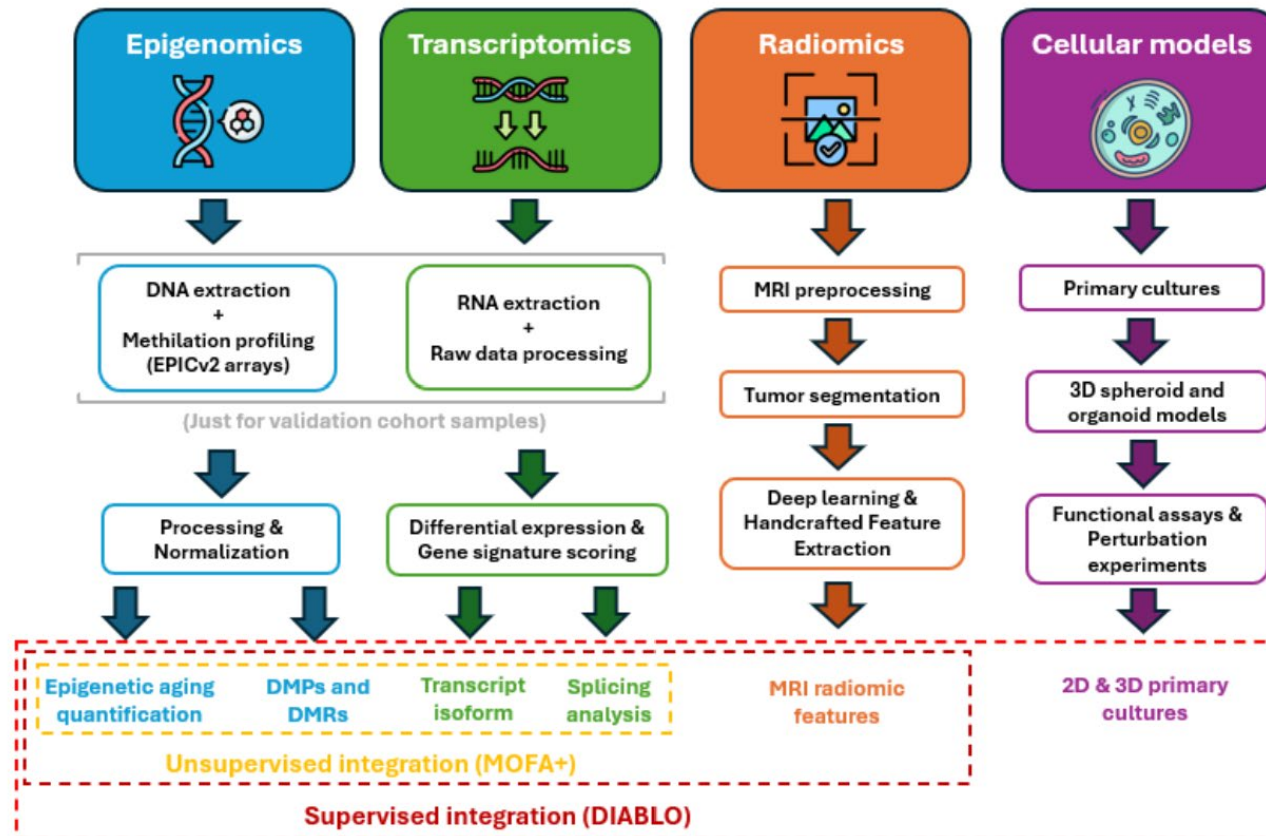


Claudia
Martis Valle



Javier
Gancedo Verdejo

STUDY DESIGN



- 80 casos (cohorte descubrimiento)
- 40 casos (cohorte validación)

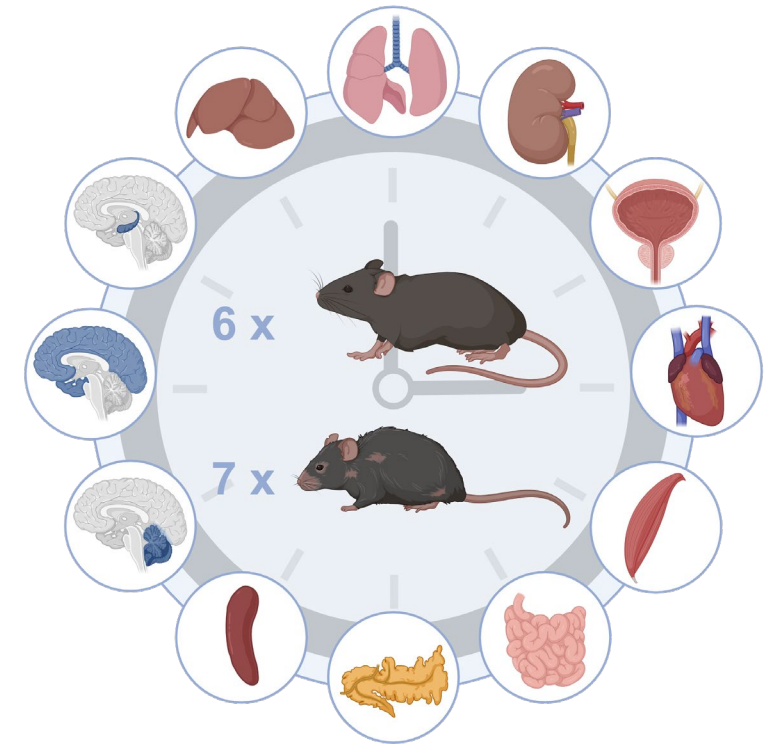
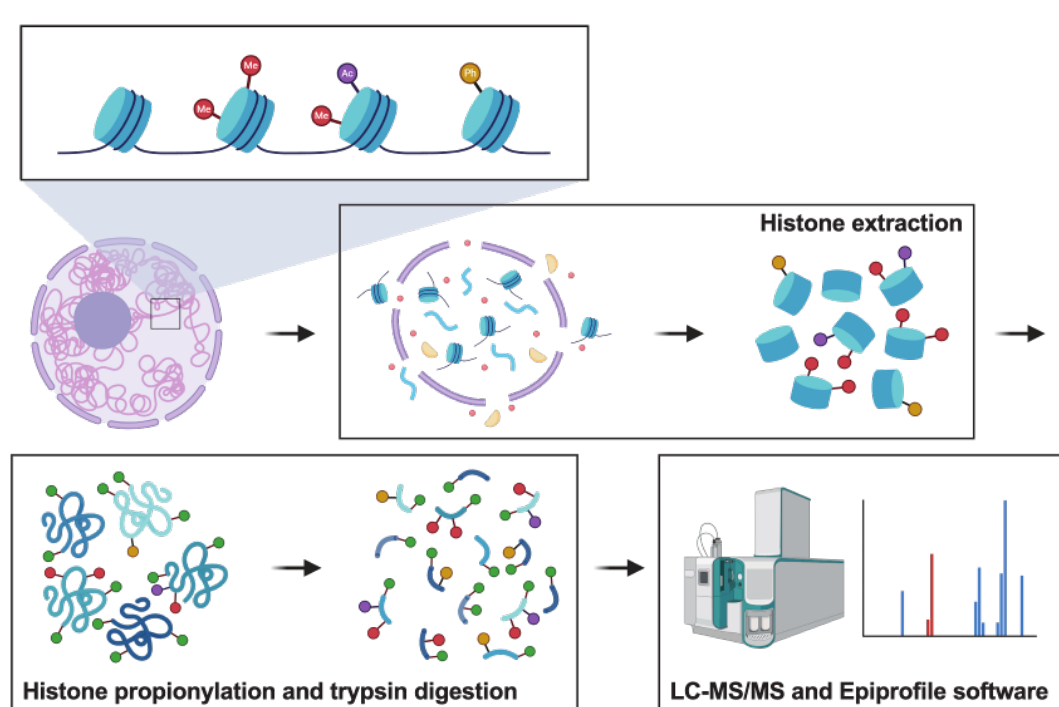
Atlas molecular de HPTMs en envejecimiento

Epimeteo

Procesador AMD Ryzen Threadripper CPU 9960X @ 4,2GHz -5,3GHz, 24 núcleos (dual). 256 GB RAM (type DDR5 ECC / speed 4800 MHz). 96 GB PNY NVIDIA RTX Pro 6000 Blackwell - GDDR6, 24064 Núcleos CUDA. 2 TB CRUCIAL T500 GEN 4 NVMe PCIe M.2 SSD (hasta 7400 MB/R, 7000 MB/W). 2 TB CRUCIAL T500 GEN 4 NVMe PCIe M.2 SSD (hasta 7400 MB/R, 7000 MB/W). 20 TB SEAGATE IRONWOLF PRO 3,5", 7200 RPM, 256 MB DE CACHE



Diego
Quintana-Torres



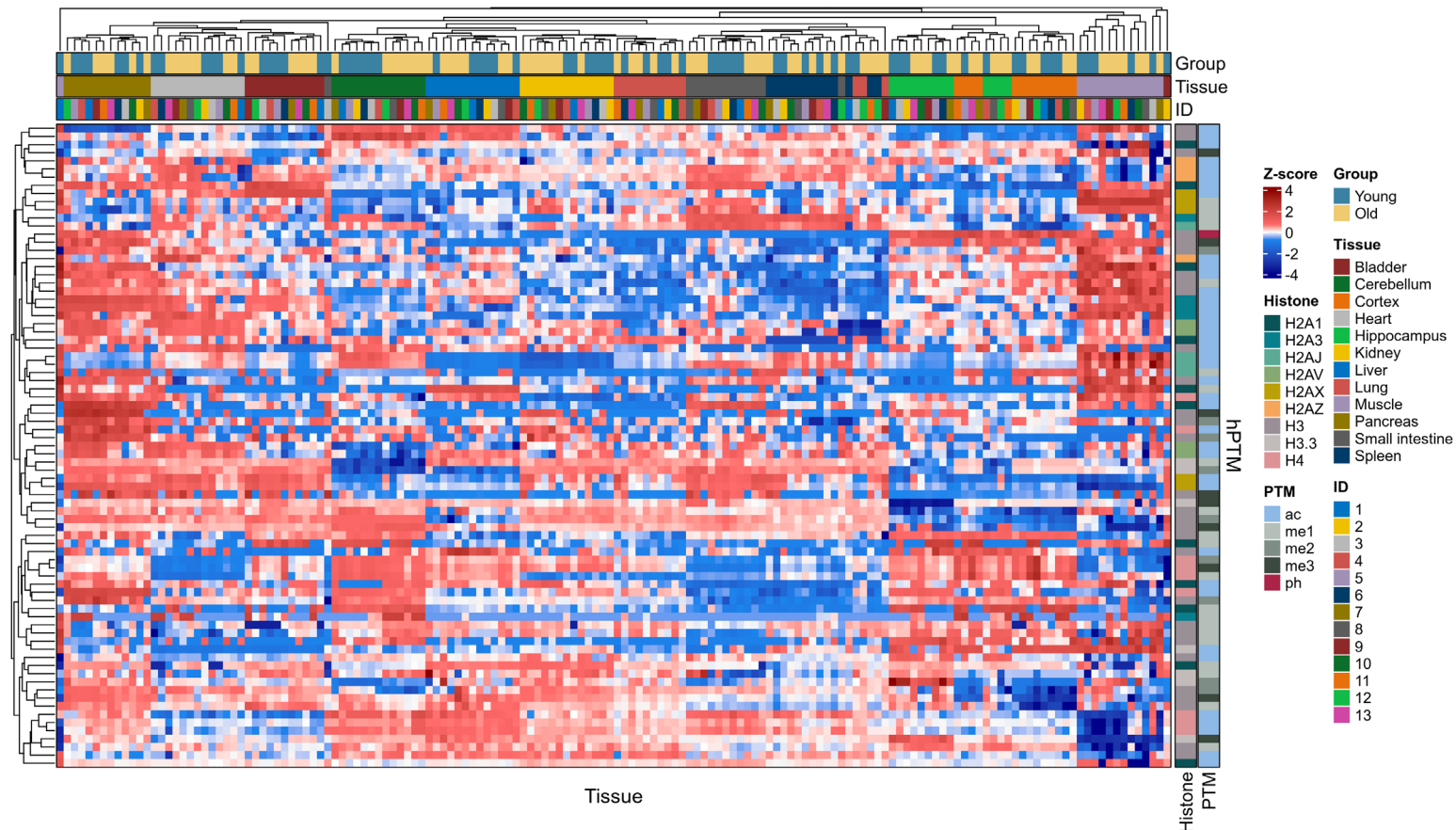
Atlas molecular de HPTMs en envejecimiento

Epimeteo

Procesador AMD Ryzen Threadripper CPU 9960X @ 4,2GHz -5,3GHz, 24 núcleos (dual). 256 GB RAM (type DDR5 ECC / speed 4800 MHz). 96 GB PNY NVIDIA RTX Pro 6000 Blackwell - GDDR6, 24064 Núcleos CUDA. 2 TB CRUCIAL T500 GEN 4 NVMe PCIe M.2 SSD (hasta 7400 MB/R, 7000 MB/W). 2 TB CRUCIAL T500 GEN 4 NVMe PCIe M.2 SSD (hasta 7400 MB/R, 7000 MB/W). 20 TB SEAGATE IRONWOLF PRO 3,5", 7200 RPM, 256 MB DE CACHE



Diego
Quintana-Torres



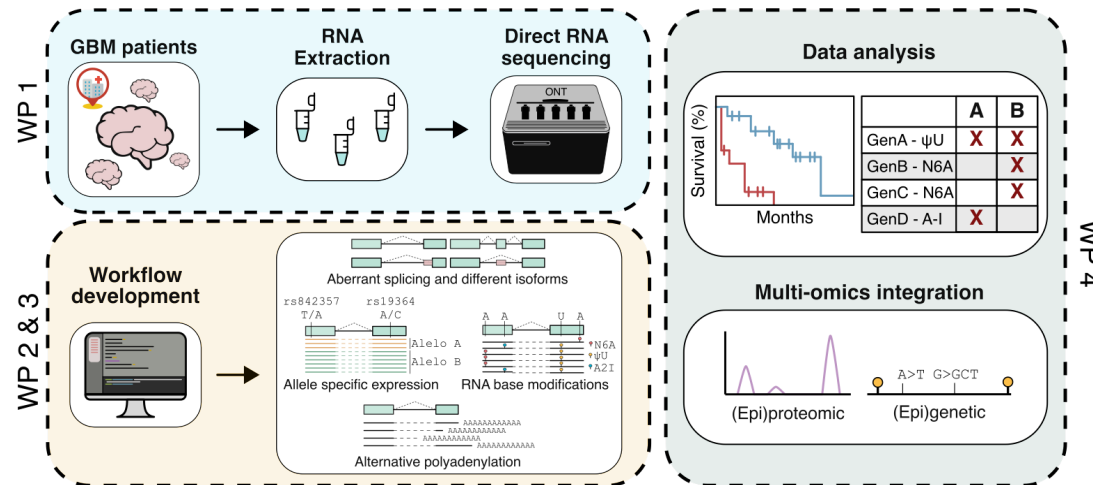
Identificación de alteraciones epitranscriptómicas

Atlas

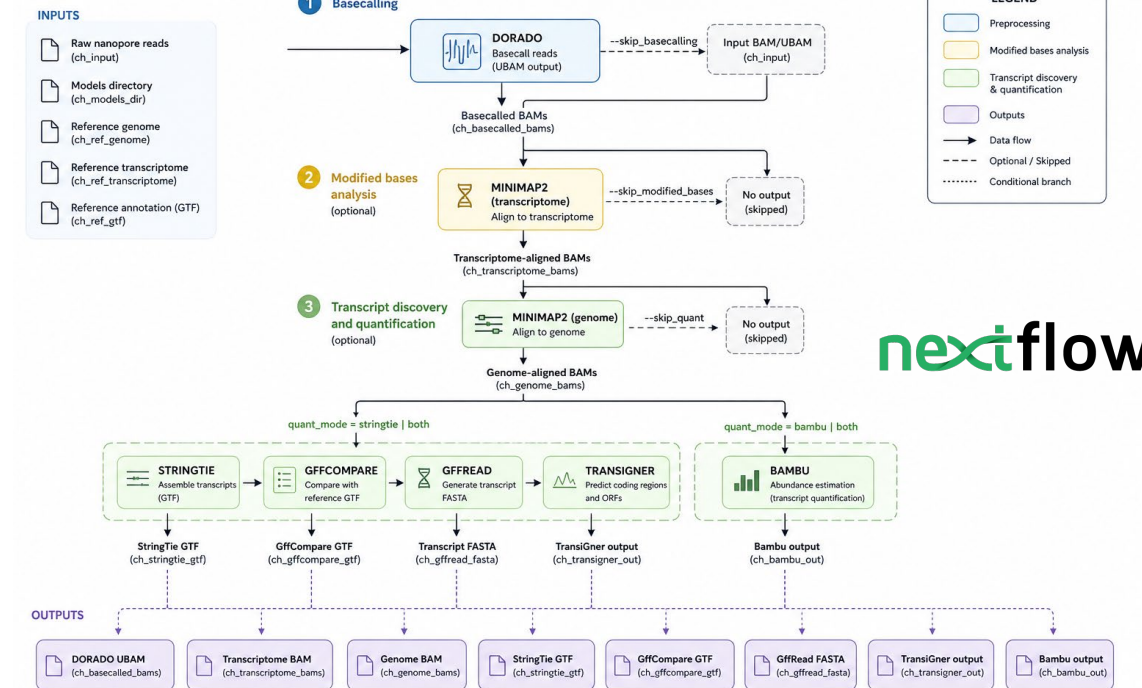
Procesador AMD Ryzen Threadripper CPU 9960X @ 4,2GHz - 5,4GHz, 24 núcleos (dual). 128 GB RAM (type DDR5 ECC / speed 4800 MHz). 16 GB PNY NVIDIA RTX 2000 - ADA, 3328 Núcleos CUDA. 4 TB SAMSUNG 990 PRO M.2 SSD (hasta 7450 MB/R, 6900 MB/W). 16 TB SEAGATE IRONWOLF PRO 3,5", 7200 RPM, 256 MB DE CACHÉ



Ander
Diaz-Navarro



EPITRANS WORKFLOW



nextflow

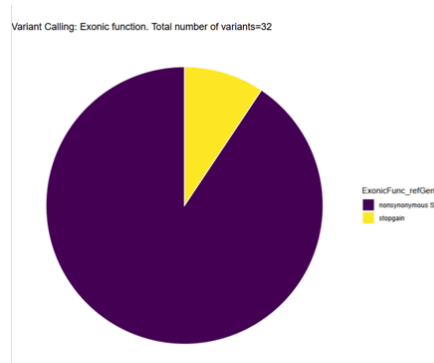
Desarrollo de software y pipelines



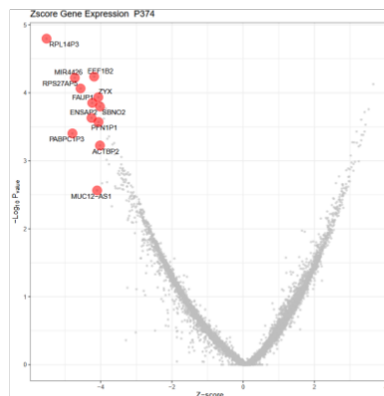
Juan Ramón
Tejedor

Galban

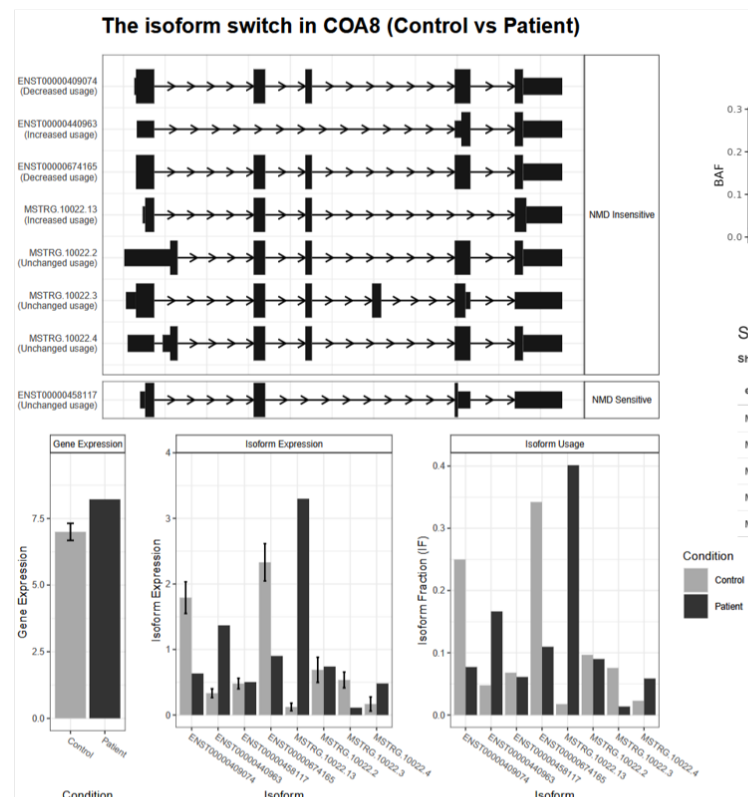
Procesador AMD Ryzen Threadripper CPU PRO 9975WX @ 4,0GHz -5,4GHz, 32 núcleos (dual). 256 GB RAM (type DDR5 ECC / speed 6400 MHz) 20 GB PNY NVIDIA RTX A4000 - ADA, 6144 Núcleos CUDA. 8 TB CORSAIR MP600 PRO NH NVMe PCIe M.2 SSD (hasta 7000 MB/R, 6100 MB/W). 28 TB SEAGATE IRONWOLF PRO 3,5", 7200 RPM, 512 MB DE CACHÉ



Variant Calling

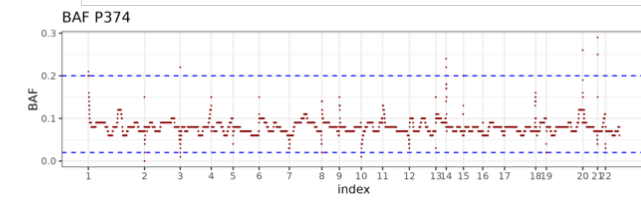


Aberrant / monoallelic expression



Aberrant Splicing

Copy Number Alterations



Splice junctions MT

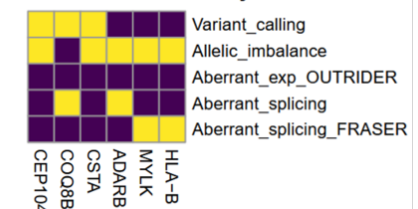
Show 10 entries

Search:

external_gene_name	ensembl_gene_id	entrezgene_id	chr_junc	start_junc	end_junc	Rank
MT-ND5	ENSG00000198786	4540	MT	8471	13449	3.955204
MT-ND4	ENSG00000198886	4538	MT	8471	13449	3.955204
MT-ATP6	ENSG00000198899	4508	MT	8471	13449	3.955204
MT-CO3	ENSG00000198938	4514	MT	8471	13449	3.955204
MT-ND4L	ENSG00000212907	4539	MT	8471	13449	3.955204

Mitochondrial defects

Hit intersections between analyses



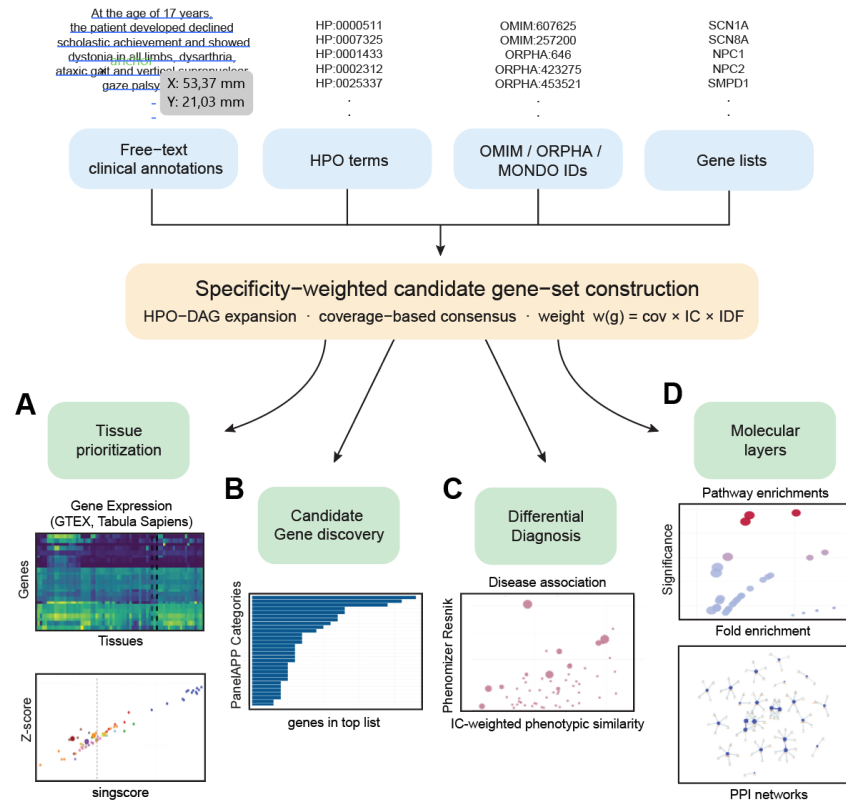
Desarrollo de software y pipelines

Galban

Procesador AMD Ryzen Threadripper CPU PRO 9975WX @ 4,0GHz -5,4GHz, 32 núcleos (dual). 256 GB RAM (type DDR5 ECC / speed 6400 MHz) 20 GB PNY NVIDIA RTX A4000 - ADA, 6144 Núcleos CUDA. 8 TB CORSAIR MP600 PRO NH NVMe PCIe M.2 SSD (hasta 7000 MB/R, 6100 MB/W). 28 TB SEAGATE IRONWOLF PRO 3,5", 7200 RPM, 512 MB DE CACHÉ



Juan Ramón Tejedor



Gobernanza de los datos



Studies Report

Shows submitted studies and their release statuses. Search by accession or unique name, or simply click search to show most recent submissions. The results will show the most recently submitted studies in your submission account.

Please click search to see the results.

Search Studies

Accession or Name

Release status

100

☐ Show unique name

Search

Reset

Download all results

Accession	Secondary Accession	Title	Submission date	Release date	Status	Action
PRJEB112868	ERP193335	ChIPseq data of H3K9me2, H3K14ac and H3K27me3 in EHMT2 KO (DLD1 and SW1116 cells)	12th May 2026	12th May 2027	Private	
PRJEB112401	ERP192959	EHMT2 KO in DLD1 and SW1116 cells	4th May 2026	4th May 2027	Private	
PRJEB90576	ERP173578	Bulk RNAseq data from young and old hippocampal neurons	18th Jun 2025		Public	
PRJEB75484	ERP160060	liChI-C data from young and old hippocampal neurons	5th May 2024		Public	
PRJEB67916	ERP152924	CRISPR/Cas9 screening in proneural-like GBM samples	27th Oct 2023		Public	
PRJEB60567	ERP145644	RNAseq of MLL-edited CD34+ cells (intron10 or intron12)	13th Mar 2023		Public	
PRJEB59404	ERP144434	The epigenomic landscape of cognitive stimulation in the context of aging in mouse dorsal hippocampus [single cell]	30th Jan 2023		Public	

Gobernanza de los datos



Annotare 2.0
ArrayExpress experiment submission tool

[Getting Started](#) [Help](#) [FAQs](#)

My Submissions

[+ Create](#) [Import](#)

All Submissions

Completed

Incomplete

Created on	Accession	Title	Status	
2017-08-07 15:00	E-MTAB-6001	Methylation arrays elucidate 5mC and 5hmC levels of human glioblastoma cell line LN229 upon restoration of TET3 ex	Public in ArrayExpress	
2017-08-08 11:12	E-MTAB-6003	Methylation arrays delineate the extent of 5mC and 5hmC in human brain and glioma samples.	Public in ArrayExpress	
2017-09-26 11:28	E-MTAB-6183	Methylation arrays delineate the extent of 5mC and 5hmC in human colon and colon cancer samples.	Public in ArrayExpress	
2017-12-07 12:31	E-MTAB-6315	Methylation arrays (MethylationEPIC) reveal specific DNA hypermethylation of T cells during human hematopoietic diff	Public in ArrayExpress	
2018-06-18 13:11	E-MTAB-7069	Methylation arrays (MethylationEPIC) of longitudinal cord and peripheral blood from children aged 0, 5 and 10 years ol	Public in ArrayExpress	
2019-01-18 09:42	E-MTAB-7719	Methylation arrays (MethylationEPIC) of human lung epithelial BEAS-2B cells exposed to reduced graphene oxide	Public in ArrayExpress	
2019-06-04 11:27	E-MTAB-8505	The Methylome Landscape of Infant B-cell precursor Acute Lymphoblastic Leukemia (iB-ALL)	Public in ArrayExpress	
2020-01-13 09:29	E-MTAB-8694	Methylation arrays (MethylationEPIC) of whole blood of individuals with type 1 diabetes	Public in ArrayExpress	
2020-04-21 16:37	E-MTAB-9020	Methylation arrays (MethylationEPIC) of peripheral blood of individuals with mild cognitive impairment or dementia	Public in ArrayExpress	

SUBMITTER PORTAL



Submissions

[CREATE A SUBMISSION](#) [+](#)

● owner ● collaborator ● closed ● awaiting approval

Status	Title	Description							Updated
	Identification of HPTMs in colon cancer (RNAseq of colon can...	This study characterizes transcriptomic alterations in colorecta...	1	48	1	48	0	1	04/05/2026
	Gene expression profiling of patient-derived fibroblasts with M...	Maple syrup urine disease (MSUD) is a rare inherited metaboli...	1	15	1	15	0	1	09/02/2024
	Ascorbic acid modulates the transcriptome of proneural-like Gl...	Glioblastoma (GBM) is a fatal disease with a poor prognosis, ...	1	4	1	4	0	1	30/10/2023

Repositorios

 EpilabAsturias

Overview

Repositories 3

Projects

Packages

Stars















EpilabAsturias

EpilabAsturias

Cancer Epigenetics lab (CINN-CSIC / ISPA / IUOPA). Exploring DNA methylation and other epigenetic alterations during cell differentiation, aging and cancer.

Edit profile

 CINN-CSIC / ISPA / IUOPA / CIBERER

 Oviedo

 @EpilabAsturias

Find a repository...

Type ▾

Language ▾

Sort ▾

New

HPO2TISSUE

Private

Tissue prioritization, differential diagnosis, drug repurposing and network-based novel-candidate prediction from HPO phenotypes, disease IDs, gene lists or English clinical notes. R + Shiny, runs ...

R

Other

Updated 4 days ago

Star

▾

EpiProfileR

Private

Cross-platform R port of EpiProfile (MATLAB) for quantitative LC-MS histone PTM analysis. 16 organisms, 36 PTM-sets, 30 mutations, SILAC. Bioconductor v0.99.0.

R

Other

Updated 2 weeks ago

Star

▾

EpiConverter-R

Private

Cross-platform R converter from mzML/mzXML to .ms1/.ms2 format for EpiProfile / EpiProfileR. Byte-identical to Python reference. Bioconductor v0.99.0.

R

Other

Updated on May 19

Star

▾

4ª Jornada del C3 – 26 Junio 2026

Repositorios

[Communities](#)[My dashboard](#)

 epigenetic...

**Epigenetics Lab Asturias**
Nanomaterials and Nanotechnology Research Centre (CINN-CSIC)

 New upload

[Uploads](#)[Communities](#)[Requests](#)

[My uploads](#)[Shared with me](#)



Sort by [Newest](#)

Versions
☐ View all versions

Publication date


☐ Last 6 months
☐ Last 1 year
☐ Last 5 years
 to 
e.g. 2025 or 2025-03-15

[May 9, 2026 \(v0.1.0\)](#)[Dataset](#)[Open](#) [View](#)

HPO2TISSUE data bundle v0.1.0
Tejedor, Juan Ramon ; Bagues Castro, Dario ; de la Puente Alonso de la Torre, Fernando ; and 1 other
Shiny application and R toolkit that translates a set of Human Phenotype Ontology (HPO) terms, OMIM/ORPHA disease identifiers, or an arbitrary gene list into actionable RNA-seq design choices, differential diagnoses, and novel-candidate predictions. The pipeline includes singscore against GTEx (v11) and Tabula Sapiens (v2, tissue + cell-type level) backends, IC-Jaccar...
Uploaded on June 10, 2026
 15  149

[September 18, 2025 \(v1\)](#)[Dataset](#)[Open](#) [View](#)

Microglial replacement reverses age-associated epigenetic modifications despite accelerating epigenetic age (extended datasets)
Arbaizar-Roviroso, Maria ; Pérez, Raúl F. ; Peñarroya, Alfonso ; and 3 others
Microglial replacement is emerging as a promising approach for treating age-related disorders, but effects on epigenetic age remain unclear. We examined epigenetic changes in microglia influenced by age, stroke, and microglial replacement. Old microglia showed an aged epigenetic profile. Stroke and microglial depletion/repopulation, both driving proliferation, led to...
Uploaded on September 18, 2025
 72  138

Agradecimientos

Epigenética del Cáncer y Nanomedicina

Mario F. Fraga
Agustín F. Fernández
Juan Ramón Tejedor
Annalisa Roberti
Rocío G. Urdinguio
Virginia López
Jennifer Kefauver
Cristina Mangas
Diego Quintana Torres
Ander Díaz Navarro
Antonio Perez

Juan José Alba-Linares
Javier Gancedo-Verdejo
Pablo García Martín
Lidia Sainz-Ledo
Pelayo González de Lena
Carlos Colmenero
Darío Bagües Castro
Fernando de la Puente
Javier Menéndez
Claudia Martís Valle
Pelayo Nieto
Claudia Martínez Sánchez

