

La Bioinformática
nació para ser Libre.

La bioinformática, según una de sus definiciones más sencillas, es la aplicación de tecnologías computacionales a la **gestión y análisis de datos biológicos.**

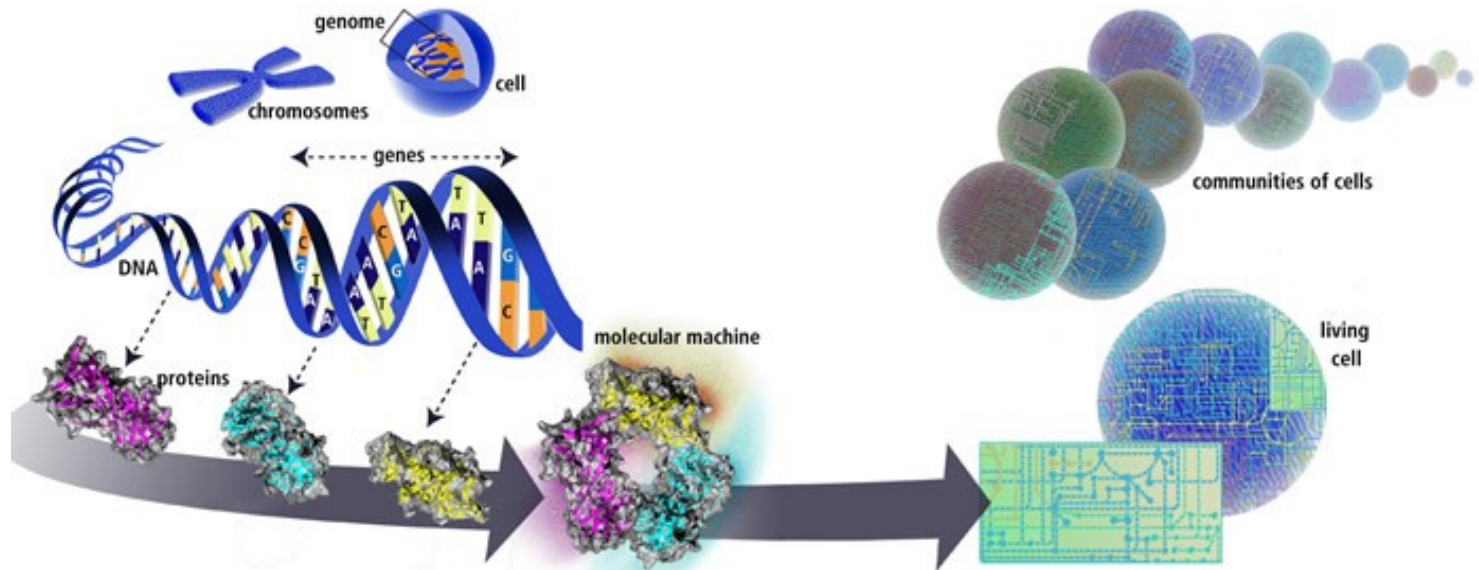


Ómicas.

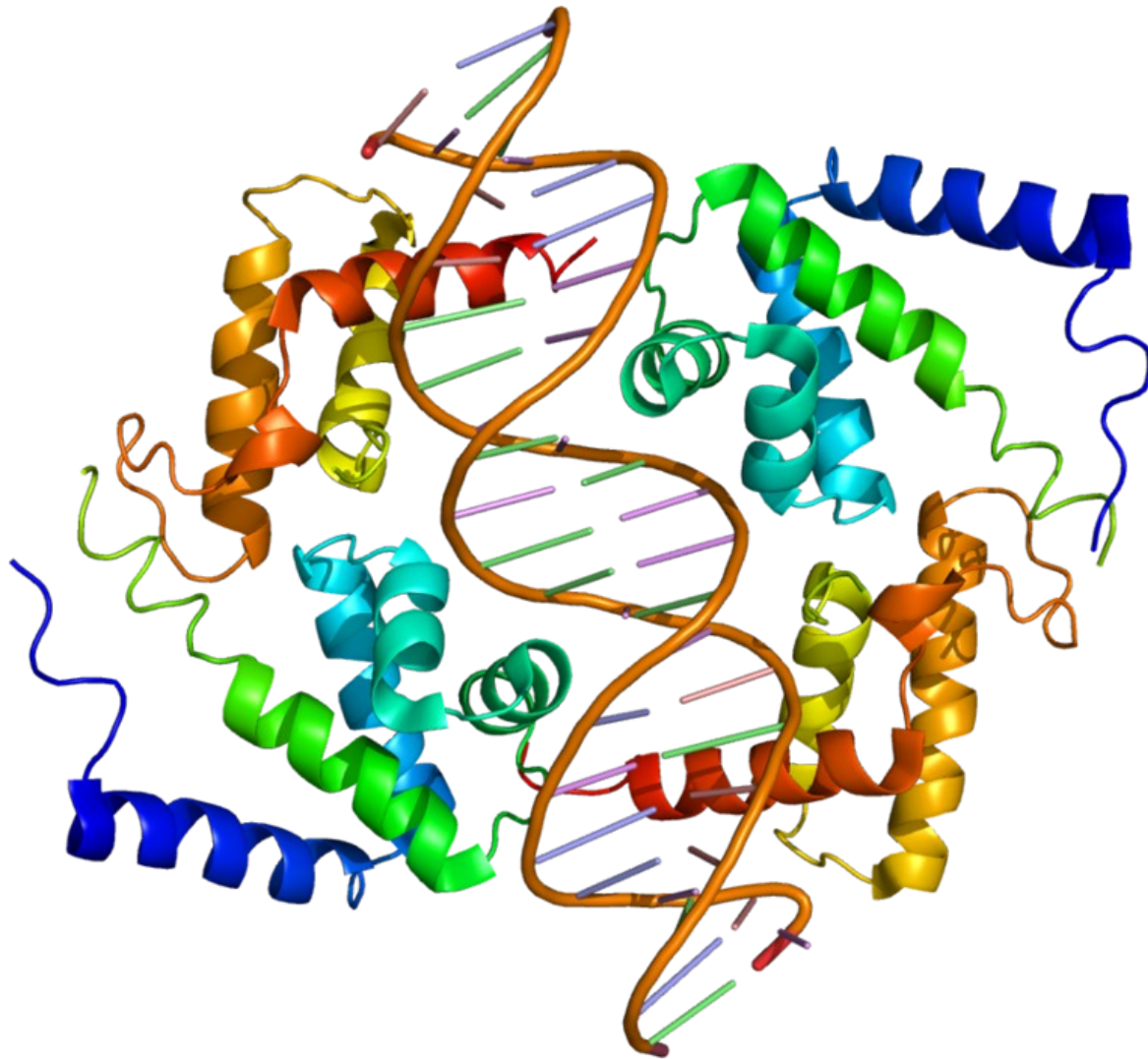
→ Genómica

→ Proteómica.

→ Otras.

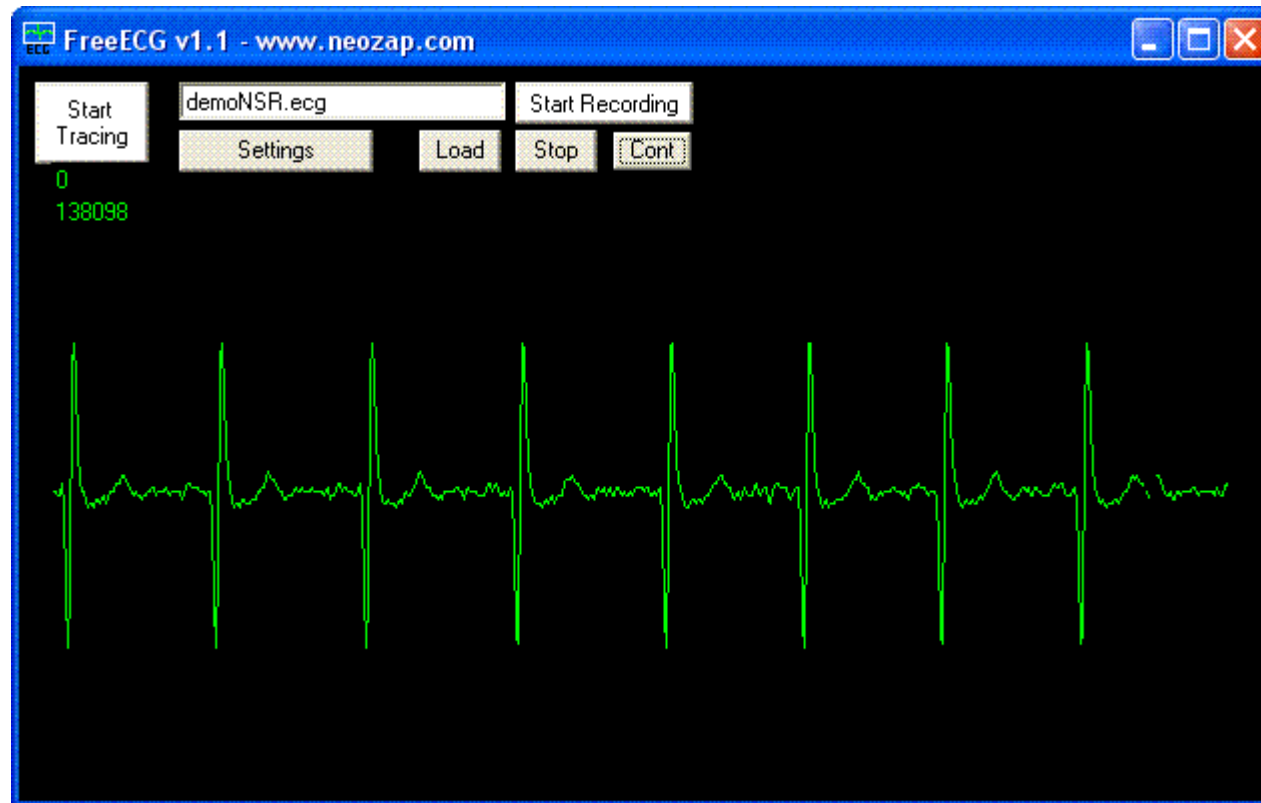


Modelado de Macromoléculas.



Structure of the TCF1 protein. Based on PyMOL rendering of PDB 1ic8

Procesamiento Digital de Señales.



Procesamiento Digital de Imágenes.

The screenshot displays a digital hematology software interface. At the top, there are tabs for 'In Process', 'Analyzers', 'Results', 'Archives', 'QC', 'Configuration', 'Maintenance', and 'Help'. The 'Results' tab is active, showing patient information for Margaret M. Taylor, Age 70 years, Sex: Female, Medical Record #: 4352313, Accession #: SL31987, and Physician: . The interface also shows the date and time of the test (03/26/15 11:22 AM) and the status of the analyzers (Bloodhound 1 and Bloodhound 2, both OK).

On the left, there is a sidebar with navigation options: Overview, WBC, RBC, PLT, History, and LUORUO. The 'Results' section displays a table of parameters and their values:

Parameter	Result	Units
WBC	17.40 (H)	$\times 10^3/\mu\text{L}$
RBC	3.24 (L)	$\times 10^6/\mu\text{L}$
HGB	9.1 (L)	g/dL
HCT	28.4 (L)	%
MCV	87.7	fL
MCH	28.1	pg
MCHC	32.0	g/dL
RDW	12.4	%
RDW-SD	39.2	fL
PLT	213 (cL)	$\times 10^3/\mu\text{L}$
MPV	10.2	fL
%NRBC	2.4	/100 WBC
#NRBC	0.4	$\times 10^3/\mu\text{L}$

Below the table, there is a section for 'WBC Messages' with the following items:

- Blasts Suspected
- Lymphopenia
- Monocytosis
- Unclassified Cells Present

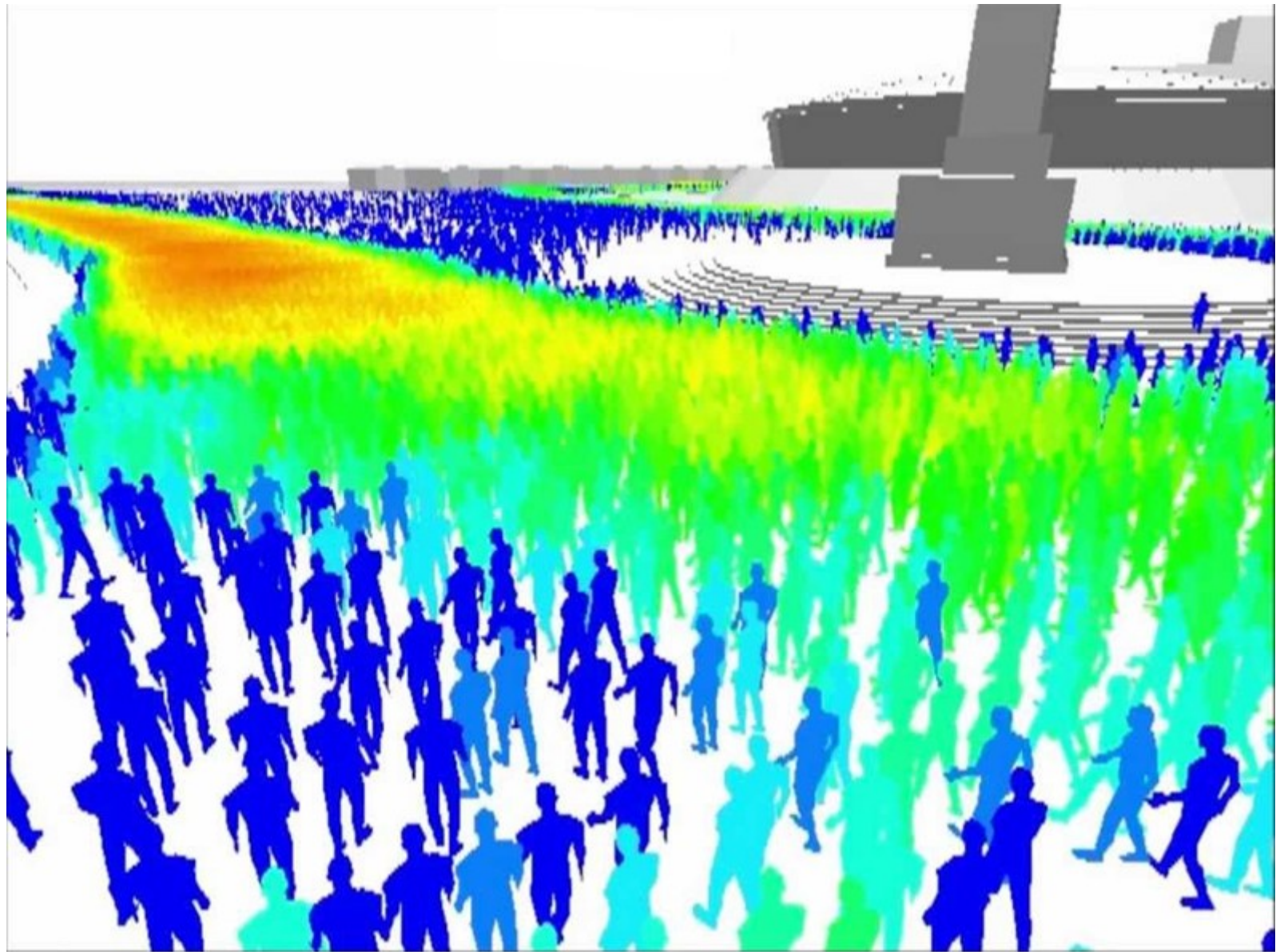
The main area of the interface shows a microscopic image of a blood smear. A grid of cells is displayed, with one cell selected and enlarged in a central window. This window is titled 'Inspect Cell' and shows a detailed view of a cell. A 'Reclassify' dropdown menu is open, showing a list of cell types for selection:

- Unclassified
- Neutrophil
- Lymphocyte
- Monocyte
- Eosinophil
- Basophil
- Atypical / Variant / Reactive / Abnormal Lymphocyte or Plasma Cell
- Band Neutrophil
- Metamyelocyte
- Myelocyte
- Promyelocyte
- Prolymphocyte
- Promonocyte
- Rare Abnormal Cell
- Blast (Any Type)
- Non-diff Cell
- Artifact

The interface also includes buttons for 'Close', 'Save', 'Revert', 'Initial Review', 'Autodiff', 'Contact', 'Action', 'Print', and 'Release'.

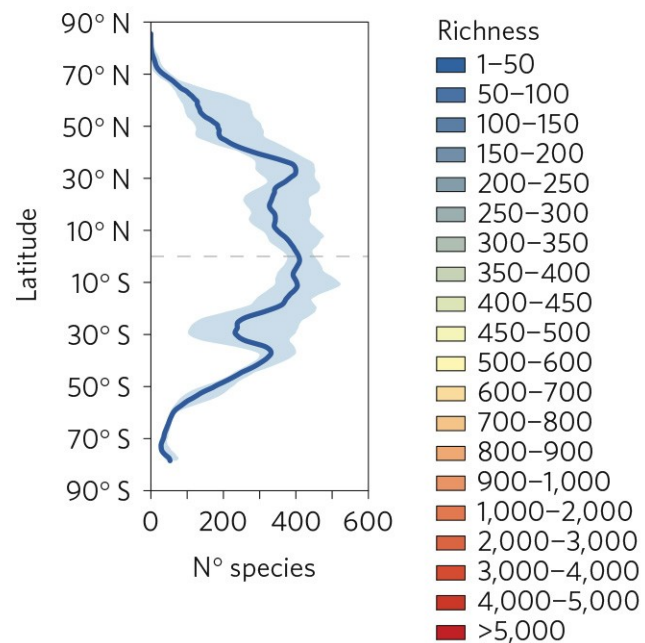
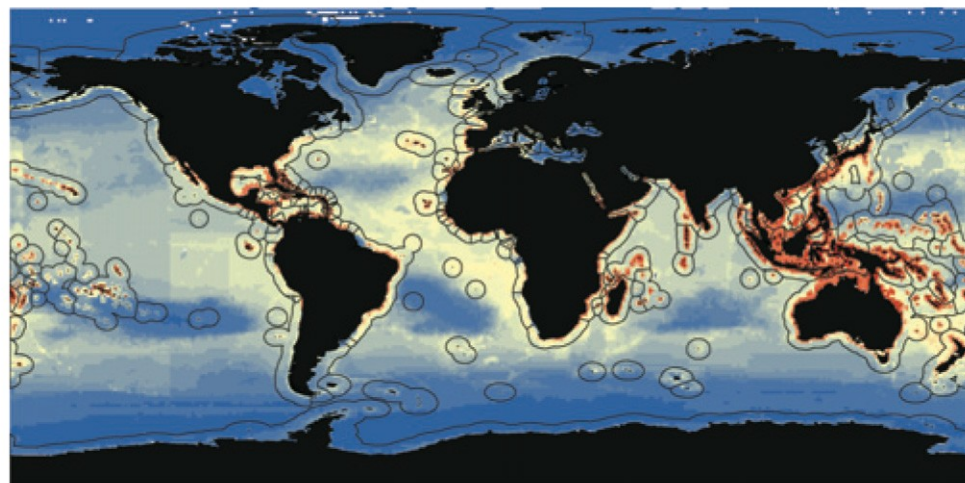
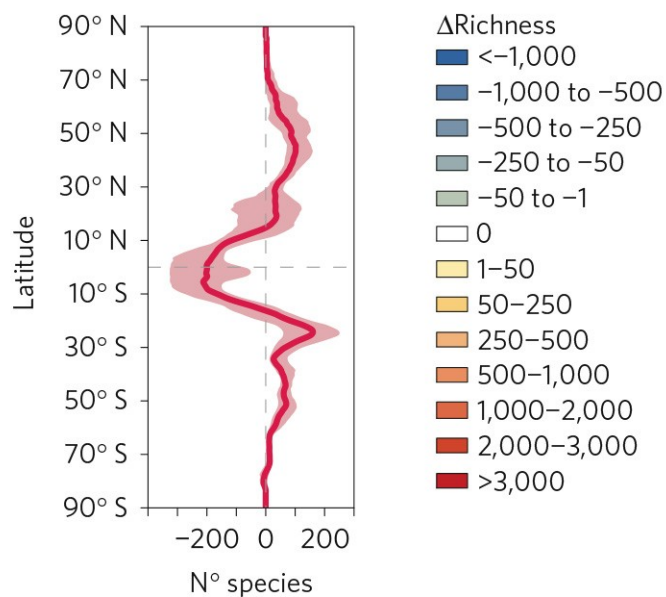
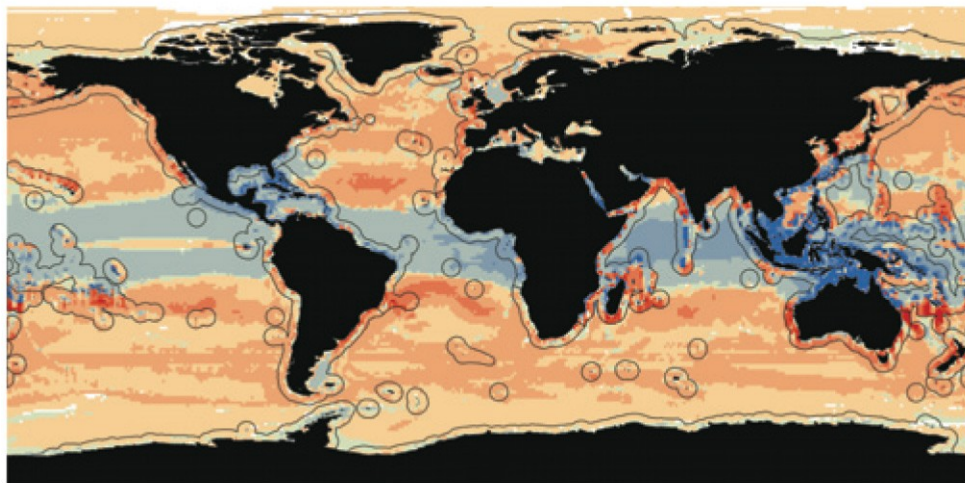
Simulación y Modelización de Sistemas Biológicos

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a

Total richness 2006

**c** ΔN° RCP8.5 (2006–2100)

Toma de decisiones basadas en evidencia.



Desarrollo y Mantenimiento de Software.

The image displays a complex software interface for development and maintenance, featuring three main components:

Sequence Alignment Viewer (clustalw.aln)

This window shows a multiple sequence alignment of protein sequences. The sequences are color-coded by amino acid type, and the alignment is displayed in a grid format. The window title is "clustalw.aln".

Dot Plot (chr4-04 vs. Q7L2R6-2.2)

This window displays a dot plot comparing two protein sequences, chr4-04 and Q7L2R6-2.2. The plot shows a strong correlation between the two sequences, with a vertical line indicating a specific position (337665, 37). The window title is "Dotter - chr4-04 vs. Q7L2R6-2.2".

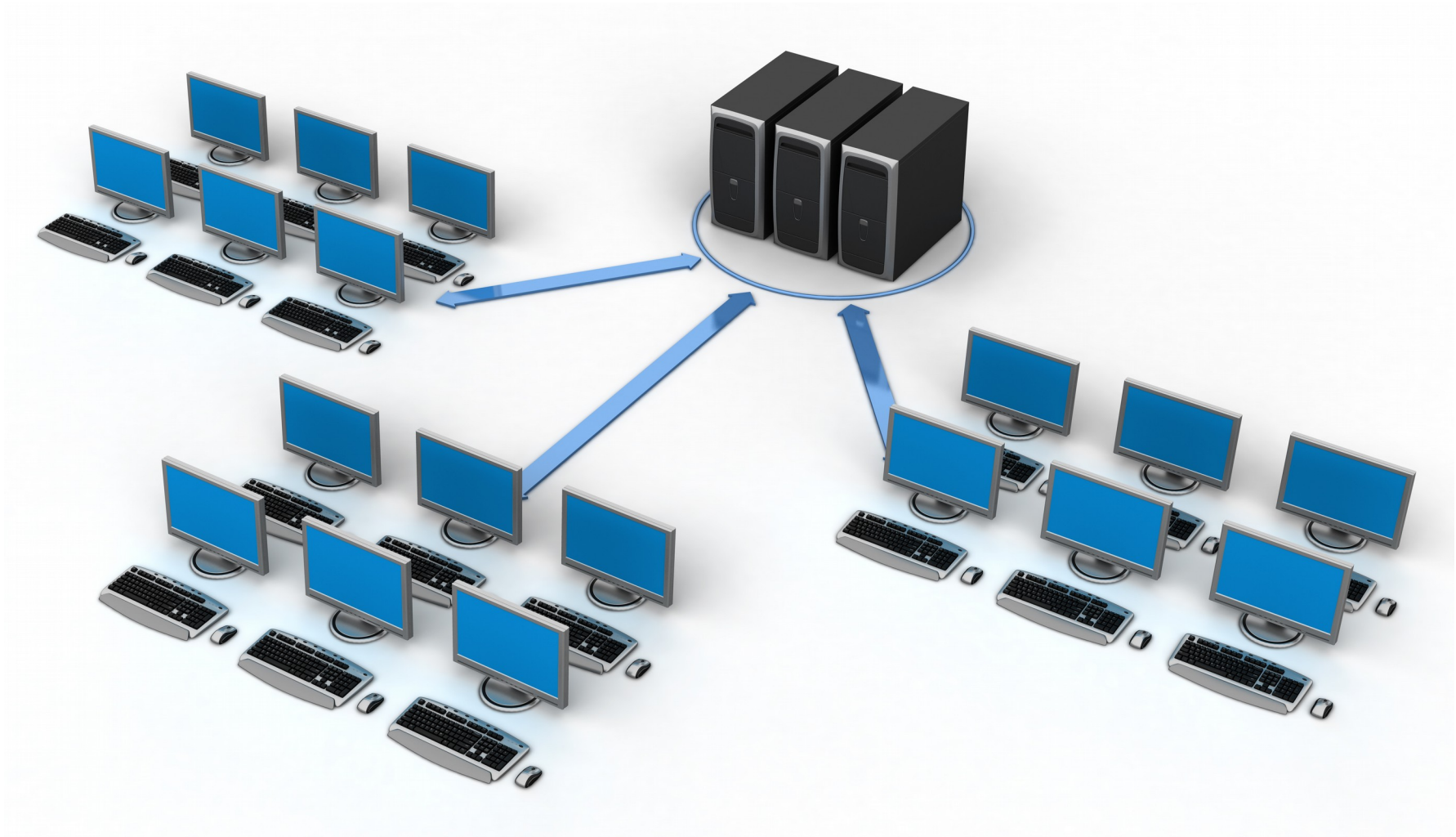
tryton Patient Management System

The tryton application is a patient management system. The main window shows the "Patients" tab, which includes a list of patients and a detailed view of a specific patient (Betz, Ana). The patient's information includes:

- Patient: Betz, Ana
- ID: PAC001
- Sex: Female
- DoB: 10/05/1985
- Age: 26y 0m 6d
- Picture: A photograph of a woman wearing sunglasses.
- Genetic Risks: A table showing genetic risks for the patient.
- Family History: A table showing family history for the patient.

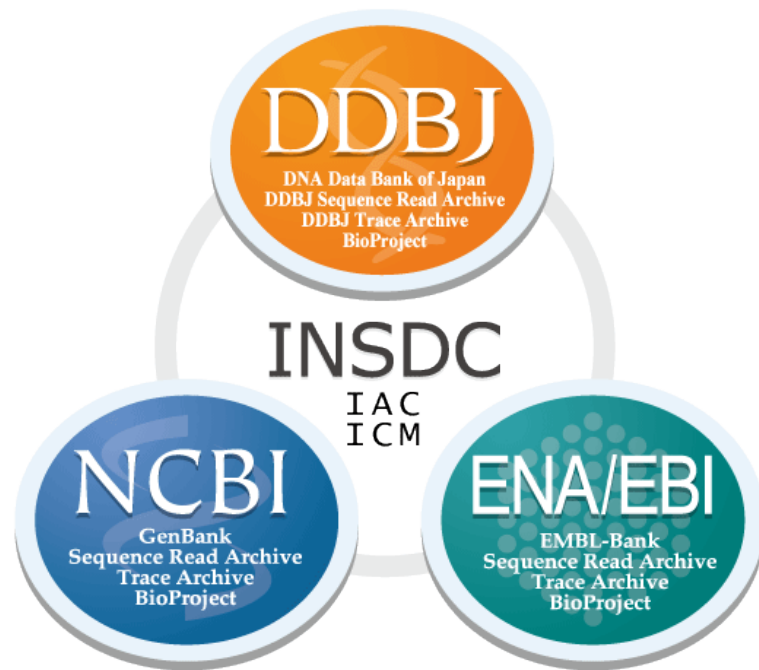
The tryton application also includes a menu with various options such as "Party Management", "Product", "Currency Management", "Health", "Configuration", "Laboratory", "Diseases", "Procedures", "Health Centers", "Physicians", "Medicaments", "Misc", "Genetics", "Appointments", "Hospitalizations", "Patients", "Laboratory", "Neonatology", "Reporting", and "Administration".

Desarrollo y Gestión de Bases de Datos Biológicas.

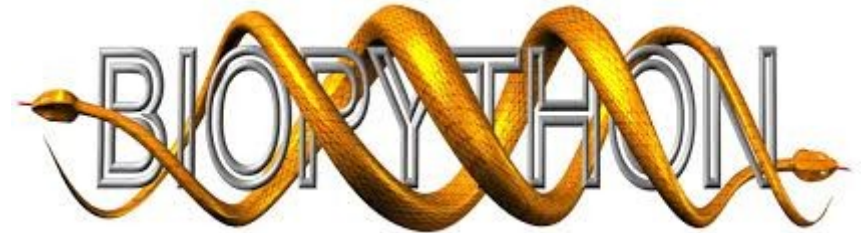


¿Por qué LIBRE?

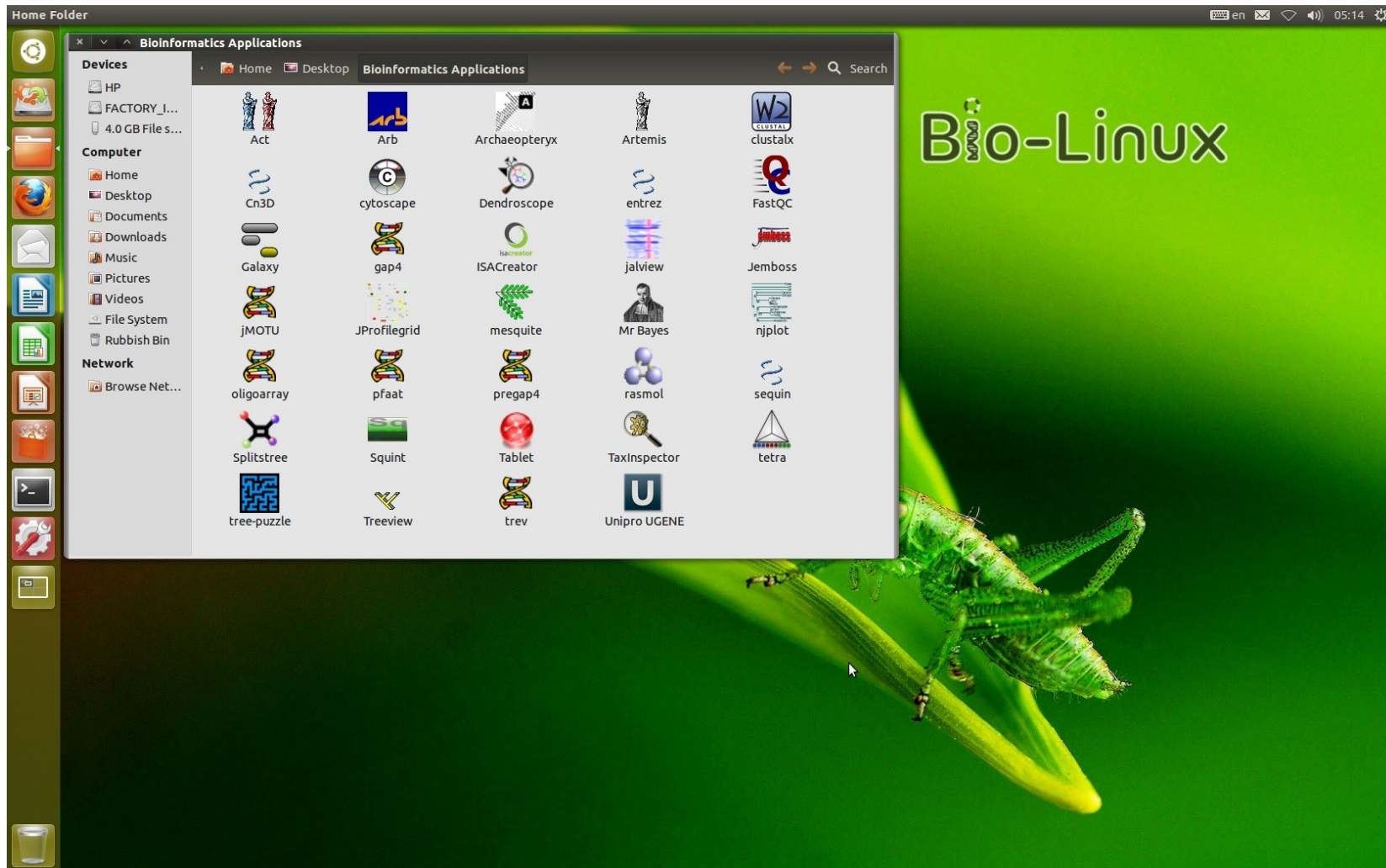
Datos Libres.



Software y Lenguajes Libres.



Sistema Operativo Libre.



**GRACIAS POR
SU ATENCIÓN!**