

# BIOINFORMATICS

A TOOL FOR THE FUTURE

# BIOINFORMÁTICA

GENÓMICA

PROTEÓMICA

etcÓMICA

**Bioinformática** es la aplicación de las [matemáticas](#) y de las técnicas [informáticas](#) en el procesamiento de datos experimentales para comprender los problemas [biológicos](#), normalmente creando o usando programas informáticos, modelos matemáticos o ambos. Una de las principales aplicaciones de la bioinformática es la simulación, la [minería de datos](#) (data mining) y el análisis de los datos obtenidos en los proyectos genoma ([Proyecto Genoma Humano](#)) o el [proteoma](#). Otras aplicaciones son el alineamiento de secuencias, la [predicción de estructuras proteicas](#) y las redes metabólicas.

# BIOINFORMATICA

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- Swiss Institute of Bioinformatics
- European Bioinformatics Institute
- Protein Data Bank
- Human genome

# •Swiss Institute of Bioinformatics

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The SIB is an academic not-for-profit foundation established on March 30, 1998 whose mission is to promote research, the development of databanks and computer technologies, teaching and service activities in the field of bioinformatics, in Switzerland with international collaborations.

**"Vital-IT: Integrated Computational Genomics Resource"** is pleased to invite proposals for cost-free use of its Integrated Computational Genomics

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To deposit new ligands, check Ligand Depot to see if the ligand, drug, ion, non-standard residue, modified residue, group, etc. is present in our chemical component dictionary. If the ligand is present, please make sure that the 3 letter code for the ligand in your file matches the one used in the chemical component dictionary.

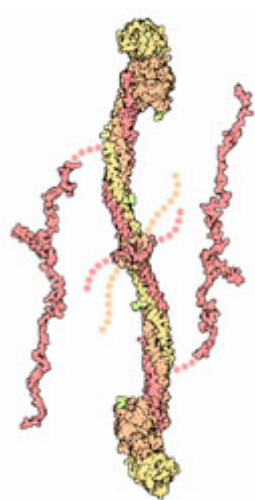
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Structure Summary pages for all structures in the PDB now offer a set of external links. These links provide further information about the structure, such as biochemical pathway information, stereochemistry and ligand binding data.

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When you cut yourself, you bleed, but the bleeding rapidly stops. Blood has a built-in emergency repair system that quickly blocks any damage to the circulatory system, creating a temporary patch that allows time for more permanent repairs. Three basic mechanisms are at work. First, platelets (small fragments of blood cells that circulate in the blood) clump at the site of the wound, forming a weak plug. Second, neighboring blood vessels constrict, reducing the amount of blood flowing into the area. Finally, the protein fibrin assembles into a tough network that clots the blood and forms an insoluble blockage. Together, these methods stop the loss of blood and create a sturdy scab to protect the area as you heal.

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Coordinador: Alfonso Valencia Herrera, Grupo de Diseño de Proteínas (CNB)

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