InSyBio Suite - First Steps

InSyBio

Intelligent Systems Biology

User Manual

July 2024

Insybio Suite v3.3

www.insybio.com

Welcome to Insybio Suite

InSyBio Suite is an integrated platform providing tools for biological data management, secured storage and analysis based on the Cloud model of Software as a Service (SaaS).

Its present version consists of seven basic modules:

- **Interact**: a module offering prepossessing and analysis options for proteomics and interactomics biological data.
- **ncRNAseq**: a module for the analysis of RNA-Seq data and non-coding RNA molecules.
- **BioNets**: a module which enables the application of data mining techniques on gene expression datasets and biological networks.
- **Biomarkers**: a tool for the identification of biomarkers from single and multi-omics datasets combining statistics and machine learning.
- **DNA-Seq**: a tool which enables the fast and accurate pre-processing and analysis of DNA-sequencing data by non-bioinformatics experts with optimized pipelines.
- **Pipelines**: a tool that takes as input a dataset file and after performing statistical and network analytics, it uses the dataset to train a machine learning model identifying at the same time the optimal biomarkers for the trained model.
- **Data Store**: a set of tools for storing and managing biological datasets.
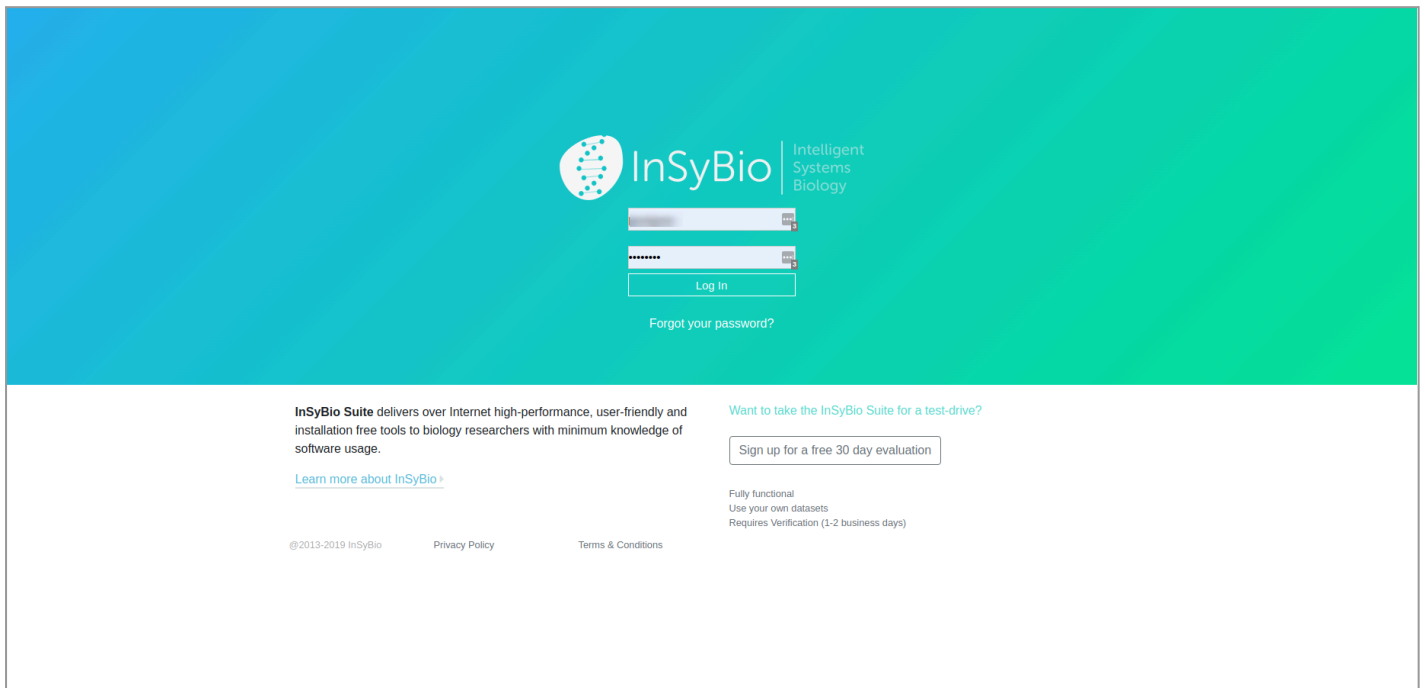
InSyBio Suite is offered by InSyBio LTD and incorporates in its analysis a variety of novel published computational intelligent techniques plus a new method for the functional characterization of proteins.

We will be thankful if you try out InSyBio Suite and provide us your feedback in support@insybio.com.

In the following, the signing up and the logging in procedures are described, as well as the basic functionalities of InSyBio Suite.

Logging in

In the login page you have to enter your email and your password and press the "Login" button.

In case you have forgotten your password, you can click the respective link. In the page you will be redirected to, you have to enter your email and your password will be sent to you.

By clicking the "Learn more about InSyBio" there is an overview about the tools that InSyBio Suite delivers and the corresponding manuals.

Welcome to InSyBio Suite

InSyBio Suite delivers over Internet high-performance, user-friendly and installation free tools to biology researchers with minimum knowledge of software usage. It is based on a series of patented or in the process of getting a patent pipelines, algorithms and tools that have been recognized and awarded by the academic community. Using InSyBio Suite, biology researchers can save time and a significant amount of money while reassuring high performance and robustness in their data analysis.

The current version of InSyBio Suite includes the following tools:

⬇ InSyBio Suite - First Steps Manual

InSyBio Interact

A tool offering prepossessing and analysis options for proteomics and interactomics biological data and prediction of protein interactions.

⬇ InSyBio Interact Manual

InSyBio ncRNAseq

A tool for the analysis of non-coding RNA molecules and extraction of biomarkers from them.

⬇ InSyBio ncRNASeq Manual

InSyBio BioNets

A tool which enables the application of data mining techniques on biological networks and the analysis of transcriptomics datasets for biomarker discovery.

⬇ InSyBio BioNets Manual

InSyBio Biomarkers

A tool for the identification of biomarkers from single and multi-omics datasets combining statistics and machine learning.

⬇ InSyBio Biomarkers Manual
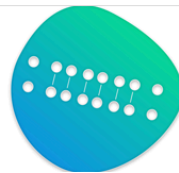
InSyBio DNASeq

A tool which enables the fast and accurate pre-processing and analysis of DNA-sequencing data by non-bioinformatics experts with optimized pipelines.

⬇ InSyBio DNASeq Manual

InSyBio Pipelines

A tool that takes as input a dataset file and after performing statistical and network analytics, it uses the dataset to train a machine learning model identifying at the same time the optimal biomarkers for the trained model.

⬇ InSyBio Pipelines Manual

InSyBio Data Store

A set of tools for storing and managing biological datasets.

⬇ InSyBio Data Store Manual

Corresponding version: 2.7, Date: March 2022.

For more details about InSyBio's services and for downloading the latest white papers of InSyBio tools please visit www.insybio.com.

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InSyBio Suite Graphical Environment

Upper toolbar

In the upper toolbar of InSyBio Suite, pressing on your username you can update your profile, change your password, go to the settings page or logout from the account.

When updating your profile you can change your full name, address, organization and country. You cannot change your email though you can manage your email notifications.
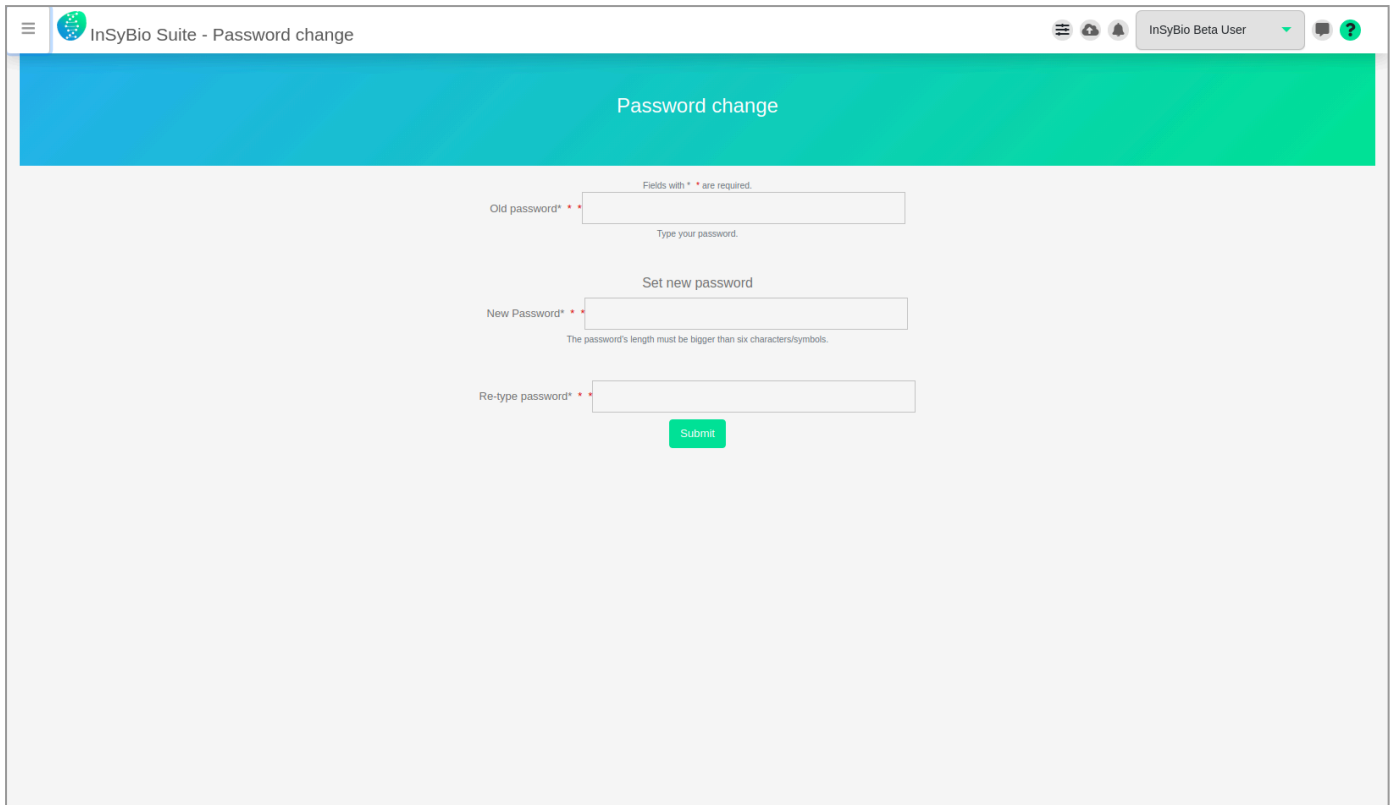
When changing your password, you have to provide your old password and type twice your new password.

Left menu

In the left menu of InSyBio Suite you can select the tool you would like to use. Tools user manuals can be found on the landing page.

For some tools, you can find their subtools pressing the respective arrow.

When inside a tool, help is provided through the upper right help button.
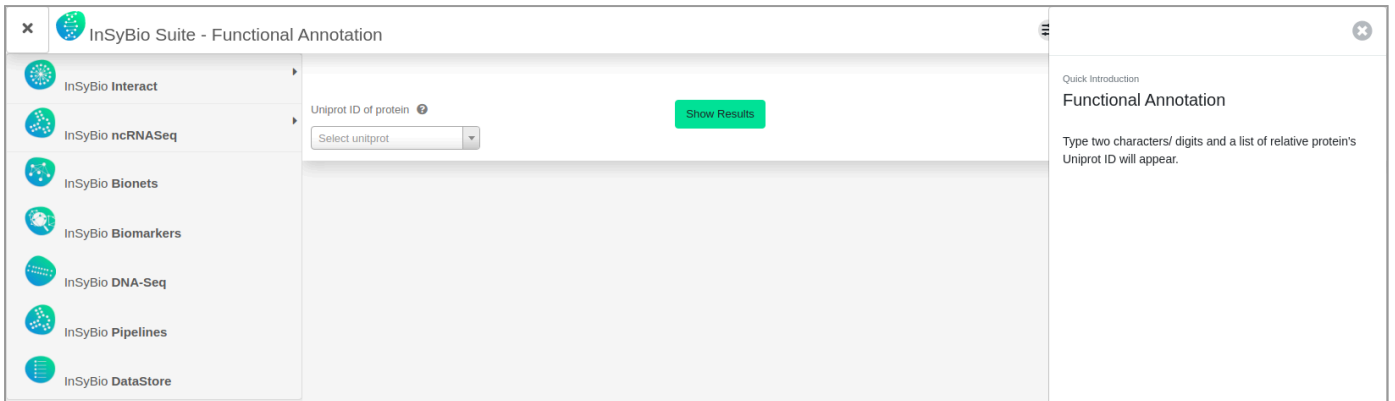
On the upper right of the toolbar, there is also a feedback button. Clicking on the feedback button, a message asks you to provide your feedback at support@insybio.com.
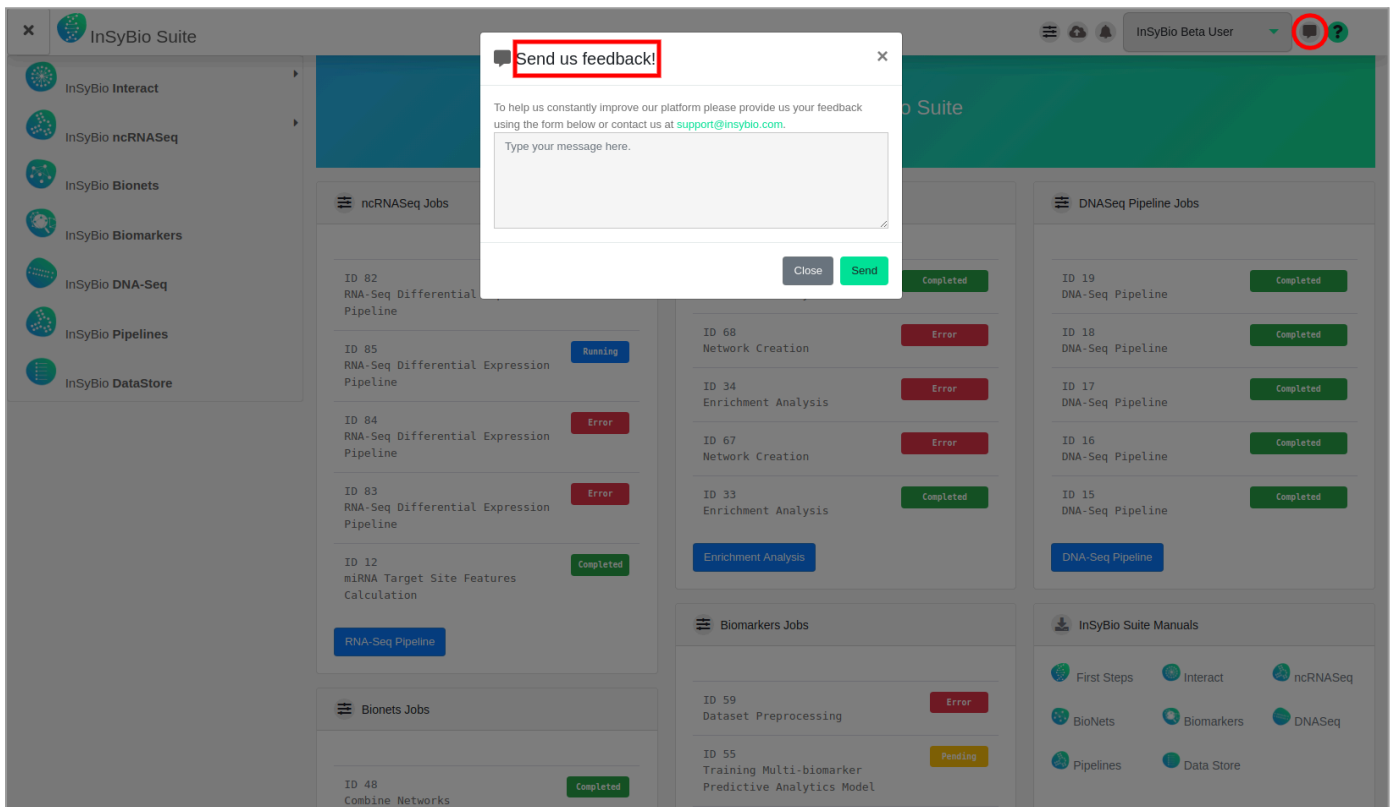
How to get InSyBio Suite

To request a free one month license of InSyBio Suite please email us at info@insybio.com .

To purchase InSyBio Suite commercial version 3.3 please contact us at sales@insybio.com.

About Us

InSyBio Ltd is a bioinformatics pioneer company (www.insybio.com) in personalized healthcare, that focuses on developing computational frameworks and tools for the analysis of complex life-science and biological data in order to develop predictive integrated biomarkers (biomarkers of various categories) with increased prognostic and diagnostic aspects for the personalized Healthcare Industry.

InSyBio Suite consists of tools for providing integrated biological information from various sources, while at the same time it is empowered with robust, user-friendly and installation-free bioinformatics tools based on intelligent algorithms and methods.

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