



noray**b**anks™

Management software
for your BioBank

main features

What is NorayBanks?

NorayBanks manages the information and data generated in Biobanks.

NorayBanks supports management and traceability of the complete process of the biological samples.

The software suits both:

- Simple local Biobanks supplying biological samples to a research center.
- National Biobanks working on complex networks, with biological samples located at different places.

Outstanding features

- In compliance with any Biobank: DNA, Tissues, Cells, microorganisms.
- Tailored, designed and developed for each user.
- Flexible, adapted to the needs of each Biobank.
- Trustworthy, with the highest level of confidentiality.
- User-friendly.
- Efficient, enables sample and information management.

NorayBanks works both at local level or Internet application with public areas for general information and restricted areas for information exchange among authorized users.

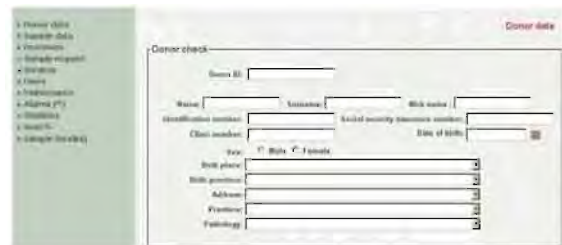


How does NorayBanks work?

NorayBanks structure has been designed for giving answer to different activities at Biobanks:

A. Information management of daily work at the Biobank

- **Donor management:** Sample donor's personal data managed with a unique identification code. Information security level 3.
- **Sample management:** Reception, sample data input and codification of samples. Customization of data associated to each sample. Data sample output.
- **Sample preparation and division:** Identification and traceability of any aliquot generated from each sample. Interaction with liquid handling robots.
- **Label generation:** Configures bar code labels to print specific information required. Communication with lineal and 2D bar code label printers.
- **Protocols:** Enables the assignment of standard procedures to each sample.
- **Sample storage:** Place samples and aliquots in a specific location of the containers. Customization of storage tanks.
- **Quality control:** Record of all quality and biosafety controls performed to each sample.



B. Coordination activities information management

NorayBanks also enables the coordination activities required in Biobanks working in networks. Software includes, among others, next functionalities:

- **Communication with researchers:** Enables communication between researchers and the Biobank. Sample and/or service request.
- **Project management:** Control of the projects the samples are assigned to: project validation, authorized researchers, Ethical Committee approval.
- **Ethical and Scientific Committees:** Management of projects and sample request and protocols.
- **Communication with nodes:** allows sample and/or service request to different Biobank nodes.

C. Information exploitation

NorayBanks stores all data in a common database that manages information and allows the user to exploit the information and get the most out of the results.

- **Statistics and reports:** Creation, visualization and printing of reports and statistics, satisfying management and internal control needs.
- **Modification control:** Information related to any modification in the system, helping to achieve the quality standards.
- **Information maintenance:** Information control, allowing the updating of the application fields.
- **Users management:** assigns the access levels and privileges to the different authorized users.

Coordination activities information management

- Communication with researchers
- Project management
- Ethical and Scientific Committees
- Communication with nodes



Information management of daily work at the Biobank

- Donor management
- Sample management
- Sample preparation and division
- Label generation
- Protocols
- Sample storage
- Quality control



Information exploitation

- Statistics and Reports
- Modification Control
- Information Maintenance
- User Management



Advantages

- NorayBio is the first Spanish bioinformatics company and we are specialized in the design and development of software for Biosciences, with high knowledge in biological banks management.
- NorayBanks enables to create a complete central management system as a base to support, in the future, the complete integration of new processes and activities.
- Data confidentiality guaranteed. Security level 3. Encrypted files. High security level.
- Traceability sample maintenance.
- Central and standard information management.
- User-friendly software.

Technical features

NorayBanks works locally installed or as client/server application.

Server requirements:

- Minimum:
 - Windows: NT, 2000 or 2003
 - Intel Pentium III or AMD Athlon 800MHz
 - 512 MB RAM
 - 500 MB of free space in the Hard Disk
 - Net Ethernet 100 MB
- Recommended:
 - Windows: 200 or 2003 Server
 - Intel Pentium IV or AMD XP 1.8GHz
 - 1 GB RAM
 - 2 GB of free space in the Hard Disk
 - Net Ethernet 1 GB

Workstation requirements:

- Minimum:
 - Windows: NT, 2000 or XP
 - Intel Pentium 500MHz
 - 128 MB RAM
 - 100 MB of free space in the Hard Disk
- Recommended:
 - Windows: 2000 or XP
 - Intel Pentium III 1GHz
 - 512 MB RAM
 - 150 MB of free space in the Hard Disk
 - Net Ethernet 1 GB
 - Screen resolution: 1024 x 768



Contact information

Noray Bioinformatics S.L.U
Parque Tecnológico, Edif. 801A
46160 Derio (Bizkaia) SPAIN
Phone: +34 944036998
Fax: +34 944036999
info@noraybio.com
www.noraybio.com

Request a videodemo

To see how NorayBanks can help you in the management of your Biobank, request a videodemo of the software at info@noraybio.com

Copyright © 2007 Noray Bioinformatics, S.L.U.