



Biomedical Network Research Centre on Rare Diseases

A model of cooperative research on Rare Diseases

VI International Conference on Rare Diseases and Orphan Drugs



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What is CIBERER? CIBERER Programmes & Platforms Outcomes Conclusions

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CIBERER Programmes & Platforms

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The **Biomedical Network Research Centre on Rare Diseases** (CIBERER) is one of the nine public consortiums set up at the initiative of the Carlos III Health Institute (ISCIII) to act as a reference to **coordinate and foster research** into Rare Diseases in Spain.

The centre groups clinical and basic researchers promoting **Cooperative Research**. The knowledge generated is translated from the laboratory to clinical practice, and vice versa: **Translational Research**.

CIBERER provides strategic coordination, human resources and materials as well as a collaborative environment where synergy proper to high multidisciplinary and complementary research potential can be developed.

What is CIBERER? Objectives



- To generate knowledge,
- To translate knowledge from biomedical research into clinical practice



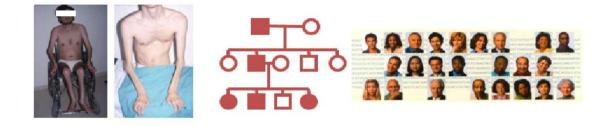
GLOBAL CONCEPT OF THE TRANSLATIONAL RESEARCH

The scientific knowledge generated by the groups in CIBERER is intended to be applied in clinical practice in the **patients' benefit**.

Open structure to **international collaborations**, with the aim to be an international reference centre for research into the causes and mechanisms underlying rare diseases.



What is CIBERER? Objectives







Internal estructure

The CIBERER network is made up of **61 Research Groups** belonging to institutions of different kinds.





Internal estructure

CIBERER units are organized into five Scientific Areas:

- Mitochondrial Pathology (8 research groups)
- Inherited Metabolic and Endocrine Disorders (20 research groups)
- Neurogenetics (11 research groups)
- Clinical Genetics and Birth Defects (15 research groups)
- Genetic Instability and Predisposition to Cancer (7 research groups)

The Scientific Areas are not isolated units, research lines are generally shared with other groups and collaborations are generated both within and among the different Scientific Areas.



Internal estructure



II. Scientific meeting for CIBERER Group leaders (Granada) 2008-04-17





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Human Resources Programme

To provide all the groups with a solid and reliable scientific and technical team of working professionals.

The CIBERER has large human resources - **over 700 persons**, made up of its own staff of **one hundred and ninety five CIBERER** contracted researchers, the rest of the members of the groups being personnel attached to CIBERER.

Professional category (21/12/2009)	Contracts number
PhD	85
Bachelor Degree	56
Diplomaed	2
Technicians	33
Research Grantees	9
Management	10
TOTAL	195
	~

43% of our personnel are PhD. This reinforces and guarantees excellent research.

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Intramural Research Projects Programme

To foster **new research lines** in the field of the knowledge concerning Rare Diseases.

Some of the Rare Diseases in study by this programme are: Friedreich's ataxia, Wolfman síndrome, Hungtinton's disease, Gaucher disease, Lafora disease, Fanconi's Anaemia, Congenital dyskeratosis, Hirschsprung's disease, etc.

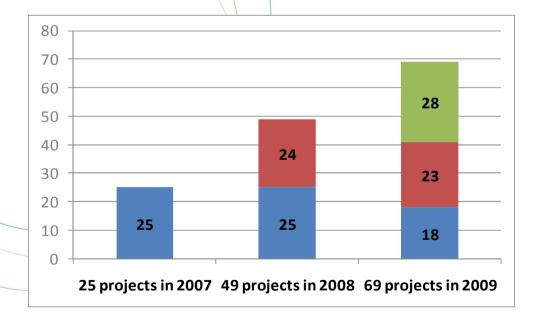
-25 projects initiated in 2007

-49 projects in 2008

- . Approval of 24 new projects
- . Renewal of 25 projects initiated in 2007

-69 projects in 2009

- . Approval of 28 new projects
- . Renewal of 18 projects initiated in 2007
- . Renewal of 23 projects initiated in 2008



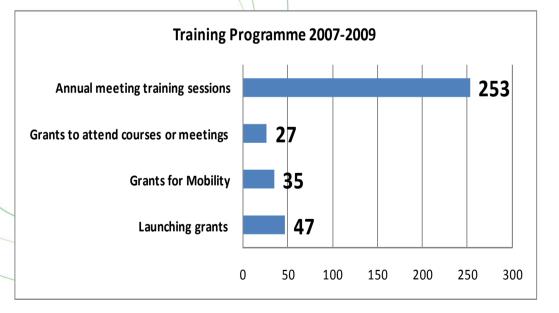
CIBERER Programmes & Platforms Training Programme



To foster and supports **training activities** arranging and facilitating courses and related events.

It also encourages knowledge-sharing and cooperation between different CIBERER groups.

- Launching grants
- Grants for Mobility
- Grants to attend courses or meetings
- Annual meeting training sessions



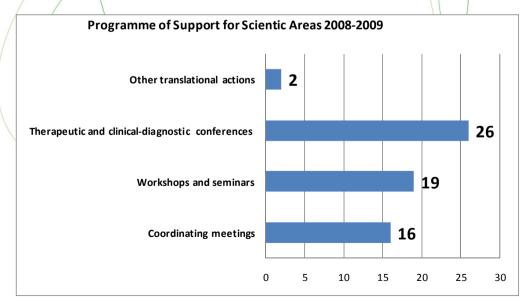
CIBERER Programmes & Platforms Programme of Support for Scientific Areas



To promote workshops, seminars, and above all therapeutic conferences and clinicaldiagnostic conferences, covering aspects of the treatment of specific diseases at which **basic**

and clinical researchers, and **patients** connected with the subject are asked to take part.

Other specific types of measures have been undertaken too, such as meetings for coordinating the areas and Internationalisation actions.



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er Programme of Support for Scientific Areas

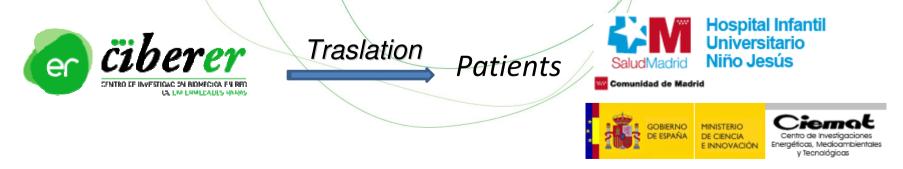
An example of therapeutic conference:

The First National Epidermolysis Bullosa day

arranged by Dr. del Río (U714) 14th January 2009, Hospital Niño Jesús, Madrid, Spain



For the first time in Spain, CIBERER brings together a **multidisciplinary team of experts** from around the country and **patients** affected by Epidermolysis Bullosa (DEBRA-Spain) for the treatment of this disease in the same day and at the same hospital.





Social Dissemination of Knowledge

Día Mundial de las Enfermedades Raras Il Jornada "Investigar es Avanzar"



26th february, 2010, at the Centro Nacional de Investigaciones Cardiovasculares (CNIC), Madrid

<u>Objective</u>: To **traslate** the research work CIBERER does to society and especially to the **affected**. CIBERER involved researchers, members of patient associations and representatives of the biotechnological industry.





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CIBERER Programmes & Platforms CIBERER Biobank



CIBERER BIOBANK (CBK) is a public, non-profit-making biobank initiated by the Biomedical Network Research Centre for Rare Diseases (CIBERER), located in Valencia's La Fe Hospital.

With the aim of serving diagnostic and therapeutic research, by facilitating the availability of **high-quality biological material** available for research groups anywhere in the world.

Can reduce the number of cases required to carry out research into Rare Diseases.





CIBERER Programmes & Platforms CIBERER SEFALer



SEFALer is a service coordinated by CIBERER through several of its research groups unprecedented nationwide and specialize in the phenotyping of **animal models** with specific application for **Rare Diseases**.

To contribute to the study of the pathophysiology, understanding the underlying molecular mechanisms, to identify diagnostic criteria and the evaluation and refinement of new therapies.

www.ciberer.es







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Outcomes



CIBERER Programmes

During its 3 years of existence, the CIBERER has allowed increasing the research capacity of its scientific groups and has increased the knowledge about Rare Diseases. CIBERER Programmes have:

- •Joined and increased the **Cooperation** between basic and clinical units
- •Increased the **Research** on Rare Diseases
- •Fostered the **Participation** of groups in the CIBERER Programmes
- •Established Institutional Relations
- •Promoted and Disseminated the activities of groups

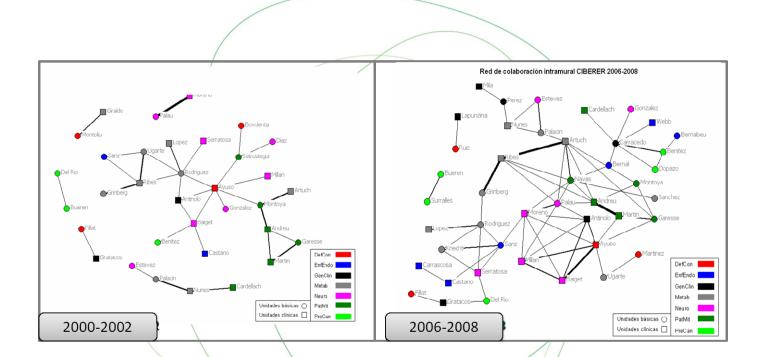


CIBERER PROGRAMMES ARE PROMOTING TRASLATIONAL AND COOPERATIVE RESEARCH

Outcomes



CIBERER Cooperative Research



Cluster collaboration of 61 groups, joint publications with other groups CIBERER

Outcomes

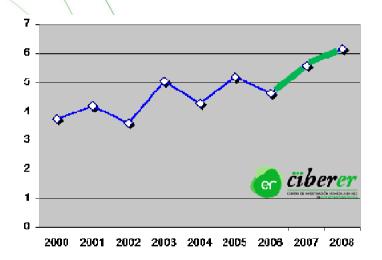


CIBERER Scientific Production

NOWADAYS, THE 90% OF RARE DISEASES PUBLICATIONS IN SPAIN BELONG TO CIBERER RESEARCH GROUPS

• **400** (almost 75%) of the 534 publications of the CIBERER groups in 2008 are **original works**.

• Over **37 %** of the works that were published in 2008 were in **first quartile journals**.



Increase of scientific production 534 publications in 2008



CIBERER Spanish Reference

orphanet

The CIBERER is working closely with Orphanet, the largest database of Rare Diseases in Europe.

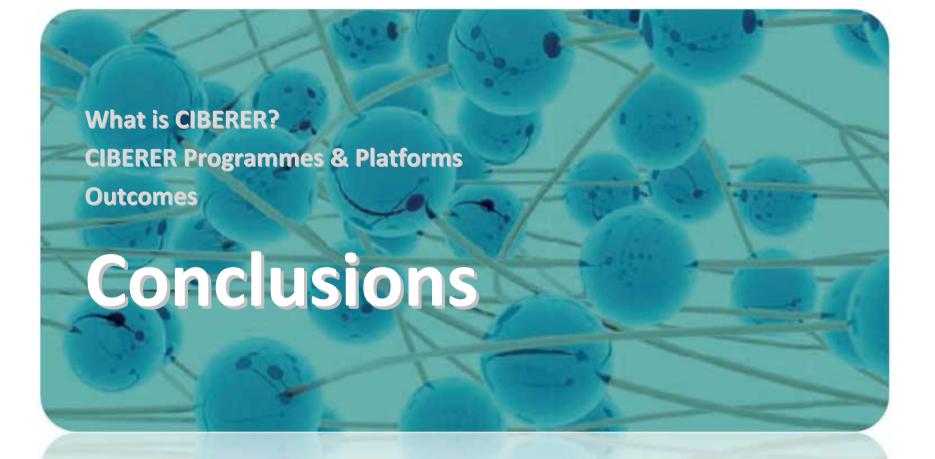


Outcomes

Starting April 2010, CIBERER will become the Spanish partner of Orphanet.

This collaboration intends to consolidate Orphanet as the database that unifies all the RD resources in Spain.





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CIBERER opens roads and builds bridges between researchers, doctors, institutions and patients to advance into the knowledge and treatment of Rare Diseases.

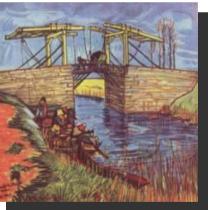
Conclusions





The CIBERER is a model of cooperative research on Rare Diseases.







"A model of Cooperative Research on Rare Diseases"

Thank you very much for your attention!

More Information: <u>www.ciberer.es</u> <u>info@ciberer.es</u> (+34) 96.339.47.89

