



**Fraunhofer**  
CHILE

## Welcome!

The Fraunhofer Chile Research - Center for Systems Biotechnology (FCR-CSB) is the first research center launched by the Fraunhofer Chile Research Foundation which was established on October 4, 2010. Staff at the Centre work closely with Chilean research organizations and aim to provide research services for a broad range of public and private enterprises not only in Chile but also the wider South American region. The Center will make a long-lasting contribution to Chile's pioneering spirit and economic strength by supporting the country's traditional economies based upon raw materials, agriculture, aquaculture and the sustainable use of natural resources.

Systems biotechnology is an emerging field in life sciences that aims to develop an understanding of the complex and dynamic processes in cells, organisms and ecosystems at the whole systems level. This is achieved by integrating available data, creating computer models and mathematical simulations, which are then applied to problems in biotechnology using a combination of large-scale laboratory experiments and computational biology.

The Fraunhofer Center for Systems Biotechnology is funded by InnovaChile, the arm of the Chilean Ministry of Economy which is responsible for technology transfer. The Center was established under a scheme developed by CORFO to attract world-class international research institutes to Chile for joint research and development partnerships.

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The Center has an innovative structure: Center personnel are embedded in the collaborating organization for maximal efficiency and close contact with researchers from the host organizations. In addition, all projects are being carried out in close collaboration with scientists at the Fraunhofer Institute for Molecular Biology and Applied Ecology (IME) in Germany who have extensive expertise in the selected project areas. Extensive interactions and exchange visits between the Chilean and German researcher is a key feature of the Center's operation.

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**Fraunhofer-Gesellschaft** is the leading organization for applied research in Europe. Its research activities are conducted by 60 Fraunhofer Institutes at over 40 different locations throughout Germany. The Fraunhofer-Gesellschaft employs a staff of around 18,000, who work with an annual research budget totaling 1.65 billion euros. Roughly two thirds of this sum is generated through contract research on behalf of industry and publicly funded research projects. Branches in the USA, Latin America and Asia serve to promote international cooperation.

**Fraunhofer Chile Research** Fraunhofer Research Chile Foundation (FCR) is a wholly owned subsidiary of the Fraunhofer Gesellschaft of Germany. Its aim is to improve industrial competitiveness through applied research. The Centre of Systems Biotechnology is the first research activity of the Foundation and is supported by InnovaChile under a program created by the Corporation for the Promotion of Production (CORFO) whose objective is the establishment of International Centers of Excellence and promotion of international joint research and development.