



Dirección de Investigación
VICERRECTORÍA DE INVESTIGACIÓN Y POSTGRADO

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MIÉRCOLES 25 SEPTIEMBRE, 2019

AÑO IV — NÚMERO 9

Newsletter de I+D+i

Investigación, Desarrollo e innovación



PUBLICACIONES
CIENTÍFICAS UTEM



CONVOCATORIAS



NOTICIAS

FONDOS
CONCURSABLES

BECAS Y
DISTINCIONES



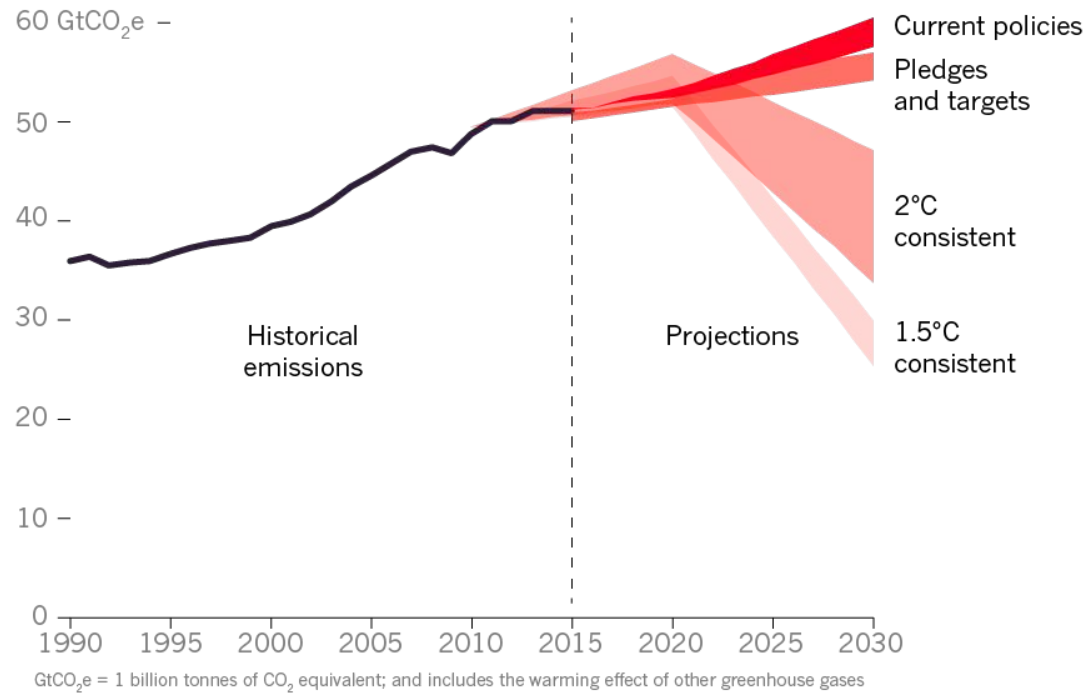
COLABORA

CURSOS



DO OR DIE

For the world to meet the Paris target of limiting global warming to 1.5°C, nations would have to slash their CO₂ emissions to zero by 2050, according to the Intergovernmental Panel on Climate Change. Even staying below 2°C of warming would require massive cuts. In reality, emissions are still rising under existing policies and environmental pledges.



THE HARD TRUTHS OF CLIMATE CHANGE — BY THE NUMBERS

A set of troubling charts shows how little progress nations have made toward limiting greenhouse-gas emissions.

MÁS NOTICIAS



AGGREGATE RECYCLING IN CONSTRUCTION: ANALYSIS OF THE GAPS BETWEEN THE CHILEAN AND SPANISH REALITIES

Marcos Díaz, María Belén Almendro-Candel, David Blanco, Manuel Miguel Jordan.



RIESGO CAMBIARIO: ¿CUBRIRSE O NO? EL CASO DE LOS MULTIFONDOS DE PENSIONES EN CHILE

Eduardo Sandoval-Álamos, Triny Ortega-Pacheco.

Laser-Assisted Synthesis of Cu-Al-Ni Shape Memory Alloys: Effect of Inert Gas Pressure and Ni Content

Stefan Niedbalski, Alicia Durán, Magdalena Walczak, Jorge A. Ramos-Grez.

Graduates' satisfaction with the Chilean basic education teacher training degree program

Oscar Espinoza, Luis González, Luis Sandoval, Noel McGinn, Javier Loyola, Dante Castillo

Predicting furan content in a fried dough system using image analysis

Gabriel A. Leiva-Valenzuela, Marcela Quilaqueo, María Salomé Mariotti-Celis, Karis Letelier, Danilo Estay, Franco Pedreschi.

Medición Localizada de Contaminantes Atmosféricos y Variables Meteorológicas: Segunda Ley de la Termodinámica

Patricio R. Pacheco, Eduardo M. Mera, Giovanni A. Salini.

Time-Dependent Rheological Behavior of Starch-Based Thickeners and Herb Infusion Dispersions for Dysphagia Management

Macarena P. Martínez, Elizabeth Troncoso, Paz Robert, Camilo Quezada, Rommy N. Zúñiga



MINISTERIO DE CIENCIA TOMA FORMA: POR PRIMERA VEZ REGIONES TENDRÁN UNA ADMINISTRACIÓN CIENTÍFICA PROPIA

05 SEPTIEMBRE, 2019

[+ LEER](#)



PROMUEVEN LA CONEXIÓN DE LA CIENCIA CON LA PRIMERA INFANCIA

08 SEPTIEMBRE, 2019

[+ LEER](#)



EL HALLAZGO MAPUCHE DE CLAUDIO GAY

21 AGOSTO, 2019

[+ LEER](#)



¿ALGÚN DÍA EL IDIOMA INGLÉS SERÁ DESPLAZADO POR OTRO EN EL TERRENO DE LA CIENCIA?

08 SEPTIEMBRE, 2019

[+ LEER](#)



ESTAS SON LAS TRES RAZONES POR LAS QUE EL ASTROFÍSICO MARTIN REES, PROFESOR EN CAMBRIDGE, CREE QUE EL CERN PODRÍA DESTRUIR LA TIERRA

29 AGOSTO, 2019

[+ LEER](#)



INTERSECCIONALIDAD Y MUJERES LÍDERES, LOS PASOS QUE AUSTRALIA ESTÁ DANDO PARA LOGRAR UNA EQUIDAD DE GÉNERO EN CIENCIA

04 SEPTIEMBRE, 2019

[+ LEER](#)

CONVOCATORIAS
Fondos ConcursablesVOLVER
AL MENÚ• **CONCURSO FONDO DE PUBLICACIÓN DE REVISTAS CIENTÍFICAS 2019****DESCRIPCIÓN**

El objetivo de la convocatoria es financiar propuestas que instalen en la(s) institución(es) un conjunto de competencias técnicas en edición científica, mediante la formulación de estrategias sustentables para aumentar la calidad y visibilidad de las publicaciones y con parámetros cuantificables de cumplimiento al final de la ejecución. Los proyectos, por ejemplo, pueden plantearse la realización de: (i) Iniciativas institucionales o cooperación institucional que permitan la gestión conjunta –con la consiguiente reducción de costos– de las publicaciones científicas; (ii) Estrategias de comunicación y/o marketing para posicionar las publicaciones en ámbitos nacionales e internacionales, a través del desarrollo e implementación de iniciativas de buenas prácticas que permitan aumentar la visibilidad e impacto de las publicaciones.

[MÁS INFORMACIÓN...](#)**FECHA CIERRE POSTULACIONES**

30 Septiembre 2019, a las 16.00 h de Chile Continental.

• **OCTAVO CONCURSO DE INVESTIGACIÓN TECNOLÓGICA 2019 – IDEA.****DESCRIPCIÓN**

El instrumento IDeA apoyará financieramente proyectos de I+D aplicada con un fuerte componente científico, que en breve tiempo obtengan resultados que puedan convertirse en nuevos productos, procesos o servicios, con una razonable probabilidad de generación de impactos productivos, económicos y sociales. En la línea de Investigación Tecnológica, se espera que los proyectos continúen con la investigación aplicada, a partir de un resultado validado a pequeña escala, y avancen hacia la obtención de resultados que se encuentren más próximos a su aplicación productiva o a su implementación en el plano social.

[MÁS INFORMACIÓN...](#)**FECHA CIERRE POSTULACIONES**

17 Octubre 2019, hasta las 17.00 h de Chile continental.

• **CENTRO PARA LA REVOLUCIÓN TECNOLÓGICA EN INDUSTRIAS CREATIVAS****DESCRIPCIÓN**

Creación y fortalecimiento de capacidades tecnológicas para acelerar el desarrollo de productos y servicios creativos basados en I+D+i realizada en Chile mediante el establecimiento de validaciones, pilotajes, escalamiento y formación de capital humano, basadas en buenas prácticas internacionales y en un espacio neutral.

[MÁS INFORMACIÓN...](#)**FECHA CIERRE POSTULACIONES**

30 Septiembre 2019, a las 16:00 h.

• **CONSOLIDACIÓN DE OFICINAS DE TRANSFERENCIA Y LICENCIAMIENTO****DESCRIPCIÓN**

Este programa tiene como objetivo apoyar la consolidación de las Oficinas de Transferencia y Licenciamiento (OTL) existentes para transferir el conocimiento y crear negocios de base tecnológica a partir de los resultados de actividades de I+D. Entre otros aspectos, el concurso fomenta la vinculación de la OTL con investigadores que realizan actividades de I+D, adopción de metodologías de construcción y actualización de portafolios de tecnologías comercializables, vinculación con la industria.

[MÁS INFORMACIÓN...](#)**FECHA CIERRE POSTULACIONES**

4 Octubre 2019, a las 12:00 h.

• **CONVOCATORIA NACIONAL PROYECTOS DE INNOVACIÓN 2019****DESCRIPCIÓN**

El objetivo del instrumento Proyectos de Innovación es apoyar el desarrollo y la adopción de innovaciones en productos, servicios y/o procesos en empresas vinculadas con el sector agrario, agroalimentario y/o forestal nacional.

[MÁS INFORMACIÓN...](#)**FECHA CIERRE POSTULACIONES**

7 Octubre, hasta las 15:00 h.

• **RESEARCH GRANT ON CANCER PREVENTION AND SURVIVAL****DESCRIPTION**

The grant programme groups research into two themes – cancer prevention and cancer survivors. Each of these areas may be addressed either from the perspective of identifying the mechanisms that underpin the effect of diet, nutrition and physical activity on cancer, or by addressing the host factors that influence individual susceptibility to cancer development or progression, and so contribute to explaining variability between people in outcomes. For cancer survivors, we also encourage broader research into evidence for impact of diet, nutrition (including body composition), physical activity and outcomes after cancer diagnosis, as robust evidence on this is still lacking.

[READ MORE...](#)**APPLICATION DEADLINE**

7 October 2019

• **NEUROIMAGING AND CSF BIOMARKER DEVELOPMENT PROGRAM****DESCRIPTION**

Given the pathological heterogeneity of Alzheimer's disease and related dementias, new biomarkers are needed to more accurately characterize specific underlying pathophysiology. The average award is \$150,000-\$600,000 based on stage and scope of research. Larger amounts will be considered for PET ligand development for regulatory or clinical work. For studies requiring additional support, co-funding from other funding agencies or investors is encouraged.

[READ MORE...](#)**APPLICATION DEADLINE**

11 October 2019

• **GRANTS4TRAITS****DESCRIPTION**

Bayer offers you financial and scientific support to develop your ideas for novel traits, including gene editing targets, that will help to achieve higher yield and safety in crops as they face increasing pressure from weeds, insects, diseases, and unfavorable climate conditions.

[READ MORE...](#)**APPLICATION DEADLINE**

15 November 2019

• **GRANTS4BIOLOGICALS****DESCRIPTION**

At Bayer, we have a successful history of collaborating with external parties to discover and develop innovative biologicals that benefit the society and the growers. The Grants4Biologicals crowdsourcing initiative in agriculture offers financial and scientific support to develop your ideas for novel microbial solutions that help to achieve higher yield, quality and safety in crops.

[READ MORE...](#)**APPLICATION DEADLINE**

15 November 2019



VOLVER AL MENÚ



CONVOCATORIAS

Becas y Distinciones

VOLVER
AL MENÚ

• THE COMPANY OF BIOLOGIST / TRAVELLING FELLOWSHIPS

DESCRIPTION

The Company of Biologists' journals – Development, Journal of Cell Science, Journal of Experimental Biology and Disease Models & Mechanisms – offer Travelling Fellowships of up to £2,500 to graduate students and post-doctoral researchers wishing to make collaborative visits to other laboratories. These are designed to offset the cost of travel/accommodation and other related expenses. There is no restriction on nationality.

[READ MORE...](#)

APPLICATION DEADLINE

- 30 August 2019 (For travel after 14 October 2019).
- 29 November 2019 (for travel after 14 January 2020).
- 06 March 2020 (for travel after 20 April 2020).
- 29 May 2020 (for travel after 13 July 2020).
- 14 August 2020 (for travel after 28 September 2020).
- 16 October 2020 (for travel after 30 November 2020).

• THE WILEY FOUNDATION / WILEY PRIZE IN BIOMEDICAL SCIENCES 2019

DESCRIPTION

The Wiley Prize in Biomedical Sciences is intended to recognize breakthrough research in pure or applied life science research that is distinguished by its excellence, originality, and impact on our understanding of biological systems and processes. The award may recognize a specific contribution or series of contributions that demonstrate the nominee's significant leadership in the development of research concepts or their clinical application. Particular emphasis will be placed on research which champions novel approaches and challenges accepted thinking in the biomedical sciences.

[READ MORE...](#)

APPLICATION DEADLINE

30 September 2019.

• NATIONAL ACADEMY OF SCIENCE / THE NAS AWARD FOR THE INDUSTRIAL APPLICATION OF SCIENCE

DESCRIPTION

Awarded for original scientific work of intrinsic scientific importance and with significant, beneficial applications in industry. The recipient is awarded a \$25,000 prize. Established by the IBM Corporation in honor of Ralph E. Gomory.

[READ MORE...](#)

APPLICATION DEADLINE

7 October 2019.

• NATIONAL ACADEMY OF SCIENCE / THE NAS PRIZE IN FOOD AND AGRICULTURE SCIENCES

DESCRIPTION

The NAS Prize in Food and Agriculture Sciences recognizes research by a mid-career scientist (defined as up to 20 years since completion of PhD) at a U.S. institution who has made an extraordinary contribution to agriculture or to the understanding of the biology of a species fundamentally important to agriculture or food production. For the purpose of the prize, areas of science with applications to agriculture include plant and animal sciences, microbiology, nutrition and food science, soil science, entomology, veterinary medicine, and agricultural economics. The recipient will be awarded a medal and a \$100,000 prize. The prize is endowed through generous gifts from the Foundation for Food and Agriculture Research (FFAR) and the Bill & Melinda Gates Foundation.

[READ MORE...](#)

APPLICATION DEADLINE

7 October 2019.

• NATIONAL ACADEMY OF SCIENCE / THE JAMES CRAIG WATSON MEDAL

DESCRIPTION

The James Craig Watson Medal is presented every two years for outstanding contributions to the science of astronomy and carries with it a gold-plated bronze medal, a \$25,000 prize, and \$50,000 to support the recipient's research. The Watson Medal was established by NAS Member and prolific Canadian-American astronomer, James Craig Watson.

[READ MORE...](#)

APPLICATION DEADLINE

7 October 2019.

• NATIONAL ACADEMY OF SCIENCE / THE MARYAM MIRZAKHANI PRIZE IN MATHEMATICS

DESCRIPTION

In recognition of Dr. Mirzakhani's remarkable life and achievements, the National Academy of Sciences has established a newly named Maryam Mirzakhani Prize in Mathematics (formerly the NAS Award in Mathematics, which was established in 1988 by the American Mathematical Society in honor of its centennial). The prize will be awarded biennially for exceptional contributions to the mathematical sciences by a mid-career mathematician.

[READ MORE...](#)

APPLICATION DEADLINE

7 October 2019.

• NATIONAL ACADEMY OF SCIENCE / THE MICHAEL AND SHEILA HELD PRIZE

DESCRIPTION

The Michael and Sheila Held Prize is presented annually and carries with it a \$100,000 prize. The prize honors outstanding, innovative, creative, and influential research in the areas of combinatorial and discrete optimization, or related parts of computer science, such as the design and analysis of algorithms and complexity theory. This \$100,000 prize is intended to recognize recent work (defined as published within the last eight years).

[READ MORE...](#)

APPLICATION DEADLINE

7 October 2019.

• NATIONAL ACADEMY OF SCIENCE / THE NAS AWARD IN CHEMICAL SCIENCES

DESCRIPTION

The NAS Award in Chemical Sciences is presented annually to honor innovative research in the chemical sciences that contributes to a better understanding of the natural sciences and to the benefit of humanity. The NAS Award in Chemical Sciences was established in 1978 and supported by Occidental Petroleum Corporation from 1978 to 1996. The Merck Company Foundation assumed sponsorship in 1999. The award is presented with a medal and a \$15,000 prize.

[READ MORE...](#)

APPLICATION DEADLINE

7 October 2019.

• NATIONAL ACADEMY OF SCIENCE / THE JESSIE STEVENSON KOVALENKO MEDAL

DESCRIPTION

The Jessie Stevenson Kovalenko Medal is awarded every two years for outstanding research in the medical sciences. The medal carries with it a \$25,000 award, and an additional \$50,000 for research. The Kovalenko Fund, gifted by Michael S. Kovalenko in 1949 to the National Academy of Science in memory of his wife, Jessie Stevenson Kovalenko, was specifically designed to recognize the achievements made to the medical sciences and, over the past 67 years, has honored many outstanding contributors.

[READ MORE...](#)

APPLICATION DEADLINE

7 October 2019.

• NATIONAL ACADEMY OF SCIENCE / THE PRADEL RESEARCH AWARD

DESCRIPTION

The Pradel Research Award is presented annually to recognize mid-career neuroscientists whose work is making major contributions to our understanding of the nervous system. The award is presented with a \$50,000 research award to designate to an institution of the recipient's choice to support neuroscience research.

[READ MORE...](#)

APPLICATION DEADLINE

7 October 2019.

• NATIONAL ACADEMY OF SCIENCE / THE ARTHUR L. DAY PRIZE AND LECTURESHIP

DESCRIPTION

Awarded to a scientist making lasting contributions to the study of the physics of the Earth and whose lectures will provide solid, timely, and useful additions to the knowledge and literature in the field. The nominee should also be a good speaker with the ability to summarize and synthesize current knowledge in the field. The recipient is awarded a \$50,000 prize and funds to present a series of Day Lectures. Provided for by funds from the Arthur L. Day Bequest.

[READ MORE...](#)

APPLICATION DEADLINE

7 October 2019.

• GLOBAL CANCER CONTROL (UICC) / YAMAGIWA-YOSHIDA MEMORIAL INTERNATIONAL STUDY GRANTS (YY)

DESCRIPTION

The YY grant provides an important opportunity to advance cancer research through international collaboration. Their purpose is to enable individuals from any country to carry out cancer research projects abroad and including the opportunity to receive further training in research methods or techniques.

[READ MORE...](#)

APPLICATION DEADLINE

28 October 2019

• UNIVERSITY OF KENT, UK / THE SCHOLARSHIPS UK/EU/ INTERNATIONAL STUDENTS, UK

DESCRIPTION

The undergraduates who helped found the University, have established the First 500 Scholarship to assist those whose full potential has yet to develop or whose talents are not recognised by current assessment methods. Should you choose to apply we, your predecessors of 1965, wish you every success in your application and future studies.

[READ MORE...](#)

APPLICATION DEADLINE

31 October 2019.

• MDPI / 2019 YOUNG INVESTIGATOR AWARD

DESCRIPTION

The applications are now open for the 2019 Energies Young Investigator Award. In order to apply, candidates must be nominated by their supervisor(s). All nominations will be assessed by an Evaluation Committee.

[READ MORE...](#)

APPLICATION DEADLINE

20 October 2019.

• MDPI / 2020 TRAVEL AWARDS FOR JUNIOR SCIENTIST

DESCRIPTION

The International Journal of Molecular Sciences (IJMS) will be awarding three Travel Awards for junior scientists. The nominations and applications will be assessed by an Evaluation Committee consisting of senior scholars from the IJMS Editorial Board.

[READ MORE...](#)

APPLICATION DEADLINE

31 October 2019.

• MDPI / 2020 TRAVEL AWARDS FOR POSTDOCTORAL FELLOWS STUDY IN EARTH SCIENCES AND GEOGRAPHY.

DESCRIPTION

These Awards will help support the travel of postdoctoral fellows to present their data, in poster or oral presentation formats, at a scientific conference in 2020. The nominations and applications will be assessed by an Evaluation Committee consisting of senior scholars from the field.

[READ MORE...](#)

APPLICATION DEADLINE

15 November 2019.

• UNIVERSITY OF WEST LONDON / INTERNATIONAL AMBASSADOR SCHOLARSHIPS

DESCRIPTION

The University of West London offers an International Ambassador Scholarship programme which, each year, offers selected students up to £5,000 discount on their first year tuition fee. Not only does the scholarship programme provide financial support, it is a great way to meet peers also in their first year of study. If you are an overseas fee paying student and have received an offer from the University to study a full-time undergraduate or postgraduate degree, you are eligible to apply for one of our International Ambassador Scholarships. We award up to 100 scholarships each year, they are spread across our three intake periods; September, January and May to provide everyone with the equal opportunity to apply.

[READ MORE...](#)

APPLICATION DEADLINE

For courses starting in January applications must be received by 28 November, 2019
For courses starting in May applications must be received by 30 March, 2020
For courses starting in September applications must be received by 1 July, 2020.



VOLVER AL MENÚ

CONVOCATORIAS
CursosVOLVER
AL MENÚ

- STATISTICAL ANALYSIS IN BIOINFORMATICS**
 UNIVERSITY SYSTEM OF MARYLAND AND
 UNIVERSITY OF MARYLAND UNIVERSITY COLLEGE (UMUC)

OBJECTIVE:

Learn basic R programming to analyze biological big data to locate genes, perform simulations, and gauge the effect of specific markers.

DURATION AND CONDITIONS:

8 weeks. Free, with option for certification (previous payment).

STARTS ON: 8 October 2019.

[READ MORE...](#)

- SCIENCE IN ART: THE CHEMISTRY OF ART MATERIALS
AND CONSERVATION**
 TRINITY COLLEGE

OBJECTIVE:

Learn the chemistry behind the visual arts, and how an understanding of art's material properties helps preserve our cultural heritage.

DURATION AND CONDITIONS:

6 weeks. Free, with option for certification (previous payment).

STARTS ON: 8 October 2019.

[READ MORE...](#)

- INDUSTRIAL BIOTECHNOLOGY**
 DELFT UNIVERSITY OF TECHNOLOGY

OBJECTIVE:

Learn the basics of sustainable processing for biobased products to further understand their impact on global sustainability.

DURATION AND CONDITIONS:

7 weeks. Free, with option for certification (previous payment).

STARTS ON: 16 October 2019.

[READ MORE...](#)

- IRRIGATION EFFICIENCY:
MORE FOOD WITH LESS WATER**
 KU LEUVEN UNIVERSITY

OBJECTIVE:

Learn to improve the efficiency of different irrigation system components over varying scales in order to extract less water from our resources while producing more food.

DURATION AND CONDITIONS:

6 week. Free, with option for certification (previous payment).

STARTS ON: 28 October 2019.

[READ MORE...](#)

- REACCIONES RÉDOX EN LA INDUSTRIA Y LA
NATURALEZA**
 UNIVERSIDAD POLITÉCNICA DE VALENCIA (UPV)

OBJETIVO:

Las reacciones de oxidación-reducción son de las reacciones más frecuentes en el mundo que nos rodea. En el curso en línea las conocerás a través de algunas de sus aplicaciones más comunes, como las pilas, las baterías o la forma de prevenir la corrosión.

DURACIÓN Y CONDICIONES:

6 semanas. Gratis, con opción de certificación (pago previo).

COMIENZA EN: 29 Octubre 2019.

[LEER MÁS...](#)

- INTRODUCCIÓN A LA VISIÓN POR COMPUTADOR:
DESARROLLO DE APLICACIONES CON OPENCV**
 UNIVERSIDAD CARLOS III DE MADRID

OBJETIVO:

¿Hasta dónde pueden ver las máquinas? Descubre la visión por computador programando aplicaciones de análisis de imágenes, uno de los campos más innovadores de la inteligencia artificial.

DURACIÓN Y CONDICIONES:

4 semanas. Gratis, con opción de certificación (pago previo).

COMIENZA EN: A tu propio ritmo.

[LEER MÁS...](#)



VOLVER AL MENÚ



Colabora

SI QUIERES DIFUNDIR ACTIVIDADES O NOTICIAS VINCULADAS A I+D+i PUEDES ENVIARLAS AL CORREO NEWSLETTER.DINV@UTEM.CL PARA QUE SEAN INCLUIDAS EN UN PRÓXIMO BOLETÍN.



VOLVER AL MENÚ

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