



Dirección de Investigación  
VICERRECTORÍA DE INVESTIGACIÓN Y POSTGRADO

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MIÉRCOLES 21 AGOSTO, 2019

AÑO IV — NÚMERO 7

# Newsletter de I+D+i

## Investigación, Desarrollo e innovación



PUBLICACIONES  
CIENTÍFICAS UTEM



CONVOCATORIAS



NOTICIAS

FONDOS  
CONCURSABLES

BECAS Y  
DISTINCIONES



COLABORA

CURSOS





## CÓMO DISTINGUIR ENTRE BUENA CIENCIA, MALA CIENCIA Y PSEUDOCIENCIA

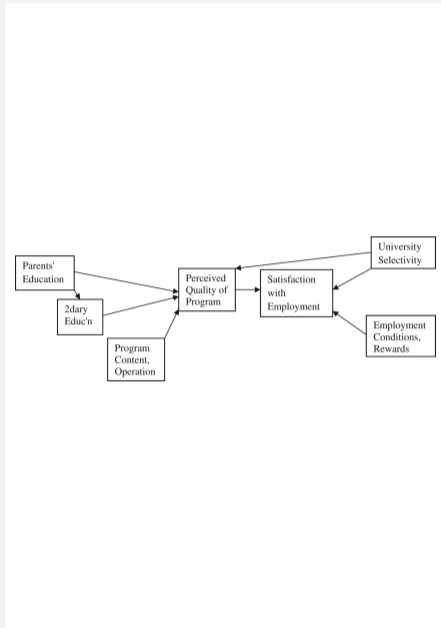
A pesar de la seriedad con que se visten, algunos artículos presentados como “ciencia” no lo son. Los autores de este artículo, publicado originalmente en The Conversation, ofrecen una práctica guía para distinguir buena ciencia de pseudociencia y mala ciencia. En tiempos en que las fake news se propagan ...

MÁS NOTICIAS



## SCHEDULING ARGENTINA'S PROFESSIONAL BASKETBALL LEAGUES: A VARIATION ON THE TRAVELLING TOURNAMENT PROBLEM

Guillermo Durán, Santiago Durán, Javier Marenco, Federico Mascialino, **Pablo A. Rey.**



## FACTORS THAT AFFECT POST-GRADUATION SATISFACTION OF CHILEAN UNIVERSITY STUDENTS

Oscar Espinoza, Luis Eduardo González, Noel McGinn, Dante Castillo, **Luis Sandoval.**

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### Theoretical models of reaction times arising from simple-choice tasks

**Mauricio Tejo,** Héctor Araya, Sebastián Niklitschek-Soto, Fernando Marmolejo-Ramos.

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### Continuous biocatalysis in environmentally friendly media: A triple synergy for future sustainable processes

**Nadia Guajardo,** Pablo Domínguez de María.

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### Electrochemical method to study the environmental behavior of Glyphosate on volcanic soils: Proposal of adsorption-desorption and transport mechanisms

Lizethly Caceres-Jensen, Jorge Rodríguez-Becerra, **Paulina Sierra-Rosales,** Mauricio Escudey, Jennifer Valdebenito, Angelo Neira-Albornoz, Valentina Dominguez-Vera, Cristian A. Villagra.

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### Treatment of industrial textile wastewater by the solar photoelectro-Fenton process: Influence of solar radiation and applied current

Ricardo Salazar, Juan Gallardo-Arriaza, Jorge Vidal, Camilo Rivera-Vera, Carla Toledo-Neira, Miguel A. Sandoval, Lorena Cornejo-Ponce, **Abdoulaye Thiam.**

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### The effect of denaturation degree of protein on the microstructure, rheology and physical stability of oil-in-water (O/W) emulsions stabilized by whey protein isolate

Nataly Dapuetto, **Elizabeth Troncoso,** Camila Mella, Rommy N. Zúñiga.

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### I+D+i+¿d?

25 MARZO, 2019

[+ LEER](#)



### UNA GUÍA PARA RECONOCER Y VALORAR LA DIVULGACIÓN DE LA CIENCIA

11 DICIEMBRE, 2018

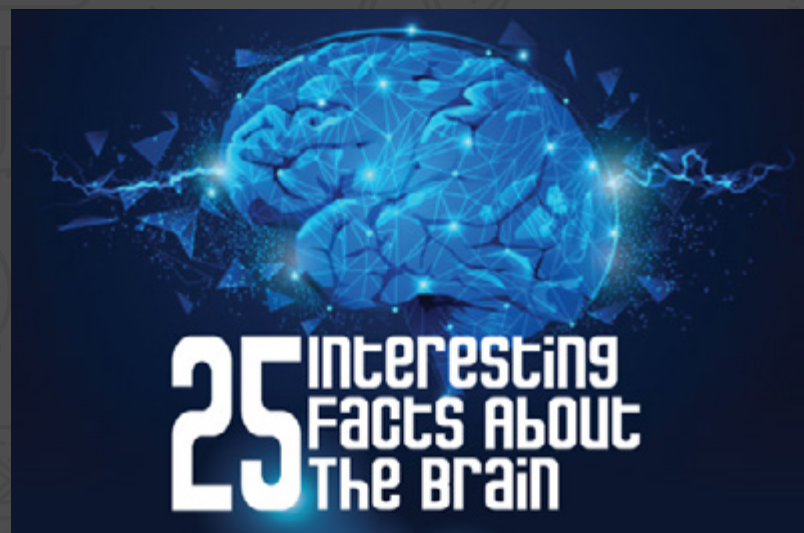
[+ LEER](#)



### CIENTÍFICOS CONSIGUEN TELETRANSPORTAR INFORMACIÓN CUÁNTICA DENTRO DE UN DIAMANTE

01 JULIO, 2019

[+ LEER](#)



### 25 INTERESTING FACTS ABOUT THE BRAIN

05 AUGUST, 2019

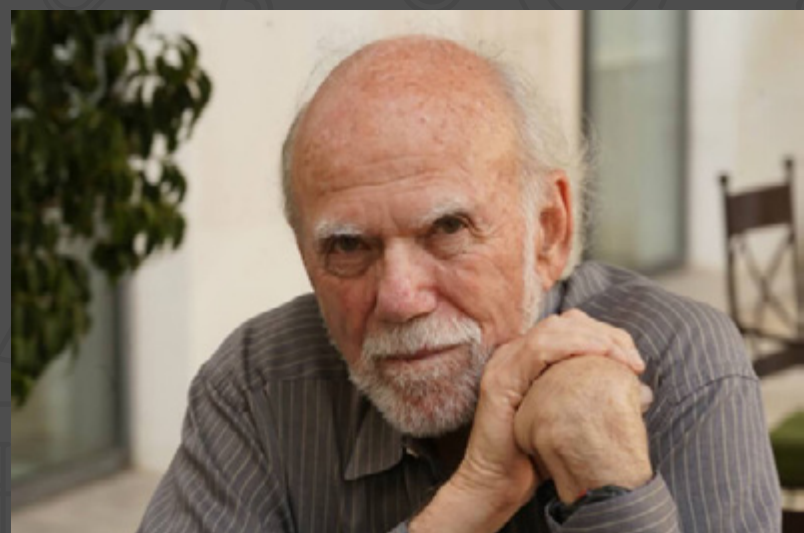
[+ LEER](#)



### INVESTIGACIÓN DIO MÁS DE 200 RECOMENDACIONES PARA GESTIONAR CORRECTAMENTE EL USO DEL AGUA EN CHILE

21 JUNIO, 2019

[+ LEER](#)



### "MI REACCIÓN NO FUE DE EUREKA SINO DE PÁNICO": FÍSICO QUE DESCUBRIÓ LAS ONDAS GRAVITACIONALES

06 AGOSTO, 2019

[+ LEER](#)

CONVOCATORIAS  
**Fondos Concursables**VOLVER  
AL MENÚ**CONCURSO FONDECYT POSTDOCTORADO 2020****DESCRIPCIÓN**

El objetivo de este concurso es estimular la productividad y liderazgo científico futuro de jóvenes investigadores(as) con grado académico de Doctor, mediante la realización de proyectos de investigación con miras a su inserción laboral en el ámbito académico u otro, a través de su incorporación en grupos de investigación consolidados que contribuirán a su desarrollo científico y que, a su vez, se verán fortalecidos por su participación. Los proyectos tendrán una duración de 2 o 3 años y el(la) Investigador(a) Responsable deberá tener dedicación exclusiva al trabajo de investigación.

**MÁS INFORMACIÓN...**

**FECHA CIERRE POSTULACIONES PARA INVESTIGADORES(AS)**  
24 Septiembre 2019 a las 16:00 h de Chile continental.

**FECHA CIERRE DE PATROCINIO INSTITUCIONAL A TRAVÉS DEL SISTEMA EN LÍNEA**  
1 Octubre 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.

**SÚMATE A INNOVAR****DESCRIPCIÓN**

Programa de innovación que busca aumentar el desarrollo de soluciones innovadoras para resolver problemas y desafíos de productividad y/o competitividad de las empresas nacionales, a través de la vinculación con entidades colaboradoras. Se excluye Región de Antofagasta. Enfocado en empresas que nunca han innovado y que quieran atreverse a dar el salto. Esta línea apoya con hasta \$10 millones para que se vinculen con expertos y así sus problemáticas o desafíos.

**MÁS INFORMACIÓN...**

**FECHA CIERRE POSTULACIONES**  
30 Agosto a las 14.00 h.

**INNOVA REGIÓN****DESCRIPCIÓN**

Programa de innovación que busca apoyar el desarrollo de nuevos o mejorados productos, procesos y/o servicios, a partir de prototipos de baja resolución hasta su validación comercial, que aporten a la economía regional. Se excluyen las Regiones de Antofagasta y Los Ríos. Entrega apoyo a innovaciones que tengan al menos un impacto regional. Son hasta \$50 millones –en dos etapas– para que se pueda desarrollar desde un prototipo (versión temprana de la innovación que se transformará en un producto/servicio) hasta la validación comercial de ésta (primeros usuarios/ clientes).

**MÁS INFORMACIÓN...**

**FECHA CIERRE POSTULACIONES**  
30 Agosto a las 14.00 h.

**CREA Y VALIDA****DESCRIPCIÓN**

Programa de innovación que busca apoyar el desarrollo de nuevos o mejorados productos, procesos y/o servicios de base tecnológica, a partir de prototipos de baja resolución, hasta su validación a escala industrial y/o comercial. Este programa financia desde la creación hasta la validación de innovaciones que tengan impacto nacional. Son hasta \$150 millones de apoyo por parte de Corfo (en dos etapas), dependiendo del grado de complejidad y desafíos tecnológicos a abordar.

**MÁS INFORMACIÓN...**

**FECHA CIERRE POSTULACIONES**  
30 Agosto a las 14.00 h.

**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.

**PROYECTOS DE GESTIÓN PARA LA INNOVACIÓN EN EMPRESAS COOPERATIVAS 2019****DESCRIPCIÓN**

El objetivo de la convocatoria es apoyar la realización de proyectos de gestión para la innovación en empresas cooperativas del sector agrario, agroalimentario y/o forestal, que contribuyan a fortalecer su desarrollo y sostenibilidad (económica, social y ambiental). Esta convocatoria apoya a las empresas cooperativas que hayan finalizado la línea 1 (Elaboración de un programa de fortalecimiento: diagnóstico y formulación de plan de acción de corto y mediano plazo) de las Convocatoria Nacionales de Proyectos para la innovación en empresas cooperativas, realizadas desde el año 2014 hasta el 2018 o que estén por finalizar durante el presente año dicha línea y que cumplan las condiciones que más adelante se indica.

**MÁS INFORMACIÓN...**

**FECHA CIERRE POSTULACIONES**  
30 Agosto 2019, a las 15:00 h.

**THE 27TH RESEARCH GRANT (FOR 2020)****DESCRIPTION**

Mizutani Foundation for Glycoscience is a non-profit organization established on October 1, 1992 with funds donated by the late Mr. Masakane Mizutani, former Emeritus Chairman of Seikagaku Corporation, Tokyo, Japan. The objective of the Foundation is to promote world-wide progress in glycoscience. The Foundation provides research grants to outstanding proposals for basic and applied studies on glycoconjugate in the fields of organic chemistry, biochemistry, biophysics, molecular biology, cellular biology and medical sciences. In principle, a grant will be approved for one year, from April 1, 2020 to March 31, 2021. The maximum amount of a grant is 7,000,000 yen (approximately US\$58,000 as of March, 2019).

**READ MORE...**

**APPLICATION DEADLINE**  
1 September 2019 (Tokyo time).

**CONCERN FOUNDATION / THE CONQUER CANCER NOW AWARD****DESCRIPTION**

Concern Foundation is an independent, volunteer-driven organization conceived in 1968. Concern Foundation supports development of the next generation of cancer researchers and thus promotes progress in understanding cancer biology and improved approaches to cancer. Concern Foundation accepts new grant proposals every two years. It begins with submission of Letters of Intent (LOI). After administrative and scientific review, the most promising LOIs are invited to submit a full proposal. Submitted proposal are peer-reviewed by experienced scientists and top applications are recommended to the Concern Foundation Executive Board for funding.

**READ MORE...**

**APPLICATION DEADLINE**  
5 September 2019, at 5:00 pm Eastern Standard Time (EST)

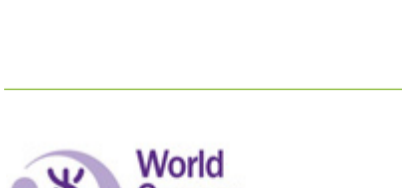
**FET OPEN – NOVEL IDEAS FOR RADICALLY NEW TECHNOLOGIES****DESCRIPTION**

The Specific Challenge is to lay the foundations for radically new future technologies of any kind from visionary interdisciplinary collaborations that dissolve the traditional boundaries between sciences and disciplines, including the social sciences and humanities. This topic also encourages the driving role of new actors in research and innovation, including excellent young researchers, ambitious high-tech SMEs and first-time participants to FET under Horizon 2020 from across Europe. The Scope is: proposals are sought for cutting-edge high-risk / high-impact interdisciplinary research with all of the following essential characteristics ("FET gatekeepers"):

- **Radical vision:** the project must address a clear and radical vision, enabled by a new technology concept that challenges current paradigms. In particular, research to advance on the roadmap of a well-established technological paradigm, even if high-risk, will not be funded.
- **Breakthrough technological target:** the project must target a novel and ambitious science-to-technology breakthrough as a first proof of concept for its vision. In particular, blue-sky exploratory research without a clear technological objective will not be funded.
- **Ambitious interdisciplinary research:** for achieving the technological breakthrough and that opens up new areas of investigation. In particular, projects with only low-risk incremental research, even if interdisciplinary, will not be funded.

**READ MORE...**

**APPLICATION DEADLINE**  
18 September 2019 17:00:00 Brussels time.

**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.



VOLVER AL MENÚ



CONVOCATORIAS

# Becas y Distinciones

VOLVER  
AL MENÚ

## • MUJERES CHILENAS EN CIENCIAS / CONCURSO NACIONAL DE VIDEOS MUJERES CHILENAS EN CIENCIAS: DESCUBRIENDO A LAS CIENTÍFICAS DE NUESTRO PAÍS

### DESCRIPCIÓN

Podrá participar en el Concurso cualquier persona, de cualquier nacionalidad, interesada en la divulgación de la importancia del aporte de las mujeres en los diferentes campos de la ciencia, ya sea individualmente o en equipos. Las experiencias o argumentos narrados o expuestos en el videoclip deben estar orientados al reconocimiento del quehacer de una científica que trabaja en Chile. Los Participantes, individuales o en equipo, serán ubicados en alguna de las siguientes categorías: a) Estudiante Escolar; b) Público en general.

[MÁS INFORMACIÓN...](#)

### FECHA CIERRE POSTULACIONES

28 Agosto 2019, hasta las 23:59 horas.

## • 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).

## • FULBRIGHT CHILE - UNIVERSITY OF CALIFORNIA / FULBRIGHT CHAIR PROGRAM AT THE UNIVERSITY OF CALIFORNIA, DAVIS

### DESCRIPTION

The Fulbright UC-Davis Chair recognizes faculty members and researchers who have an established record of teaching and exhibit the potential to make significant contributions to the body of research on their themes of expertise, which are critical to contemporary societies around the globe. The University of California, Davis, looks to enable global and societal impacts through innovation, creativity, and discoveries. In supporting these missions, the Fulbright Commission and the University of California, Davis are opening the following call for applications.

The Program is intended to strengthen collaborations in both research and teaching between Chilean institutions and UC Davis. Candidates for the Fulbright Visiting Scholar Program shall submit a detailed proposal for contributing to teaching and research, in any discipline, to be accomplished during either the fall 2020 term, winter 2021 term, or the spring 2021 term.

[READ MORE...](#)

### APPLICATION DEADLINE

11 September 2019.

## • 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 physical 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.



VOLVER AL MENÚ

CONVOCATORIAS  
CursosVOLVER  
AL MENÚ

- **CO-CREATING SUSTAINABLE CITIES**  
DELFT UNIVERSITY OF TECHNOLOGY, WAGENINGEN UNIVERSITY & RESEARCH, & DELFTWAGENINGENX

**OBJECTIVE:**

Learn how citizen's co-creation is key in making cities worldwide more sustainable.

**DURATION AND CONDITIONS:**

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

**STARTS ON:** 2 September 2019.

[READ MORE...](#)

- **DATA ANALYSIS FOR SOCIAL SCIENTISTS**  
MASSACHUSETTS INSTITUTE OF TECHNOLOGY

**OBJECTIVE:**

Learn methods for harnessing and analyzing data to answer questions of cultural, social, economic, and policy interest.

**DURATION AND CONDITIONS:**

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

**STARTS ON:** 3 September 2019.

[READ MORE...](#)

- **ARTIFICIAL INTELLIGENCE (AI)**  
COLUMBIA UNIVERSITY, NEW YORK

**OBJECTIVE:**

Learn the fundamentals of Artificial Intelligence (AI), and apply them. Design intelligent agents to solve real-world problems including, search, games, machine learning, logic, and constraint satisfaction problems.

**DURATION AND CONDITIONS:**

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

**STARTS ON:** 15 September 2019.

[READ MORE...](#)

- **STATISTICAL ANALYSIS IN BIOINFORMATICS**  
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 week. Free, with option for certification (previous payment).

**STARTS ON:** 8 October 2019.

[READ MORE...](#)

- **GESTIÓN DE PROYECTOS DE DESARROLLO**  
BANCO INTERAMERICANO DE DESARROLLO

**OBJETIVO:**

"Un MOOC desarrollado en colaboración con el Project Management Institute Educational Foundation (PMI-EF)". Aprende mejores prácticas para gestionar proyectos que promuevan el desarrollo económico y social en América Latina y el Caribe.

**DURACIÓN Y CONDICIONES:**

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

**COMIENZA EN:** 17 Octubre 2019.

[MÁS INFORMACIÓN...](#)

- **SUSTAINABLE FOOD SECURITY: THE VALUE OF SYSTEMS THINKING**  
WAGENINGEN UNIVERSITY & RESEARCH

**OBJECTIVE:**

Learn how to solve the 'Rubik's cube' of systems thinking and how it's applied to improve the environmental sustainability of food production systems.

**DURATION AND CONDITIONS:**

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

**STARTS ON:** Free enrolling.

[READ MORE...](#)



VOLVER AL MENÚ



# Colabora

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



VOLVER AL MENÚ



## **Grupo Editorial**

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DIRECTORA DE INVESTIGACIÓN

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Dirección de Investigación

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INVESTIGADOR

Programa Institucional de Fomento a la I+D+i  
(PIDi) UTEM

## **Colaboradores de esta edición**

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- Programa de Comunicaciones y Asuntos Públicos
- Dirección Escuela de Postgrado