



Dirección de Investigación
VICERRECTORÍA DE INVESTIGACIÓN Y POSTGRADO

noticias.utem.cl

JUEVES 10 OCTUBRE, 2019

AÑO IV — NÚMERO 10

Newsletter de I+D+i

Investigación, Desarrollo e innovación



PUBLICACIONES
CIENTÍFICAS UTEM



CONVOCATORIAS



NOTICIAS

FONDOS
CONCURSABLES

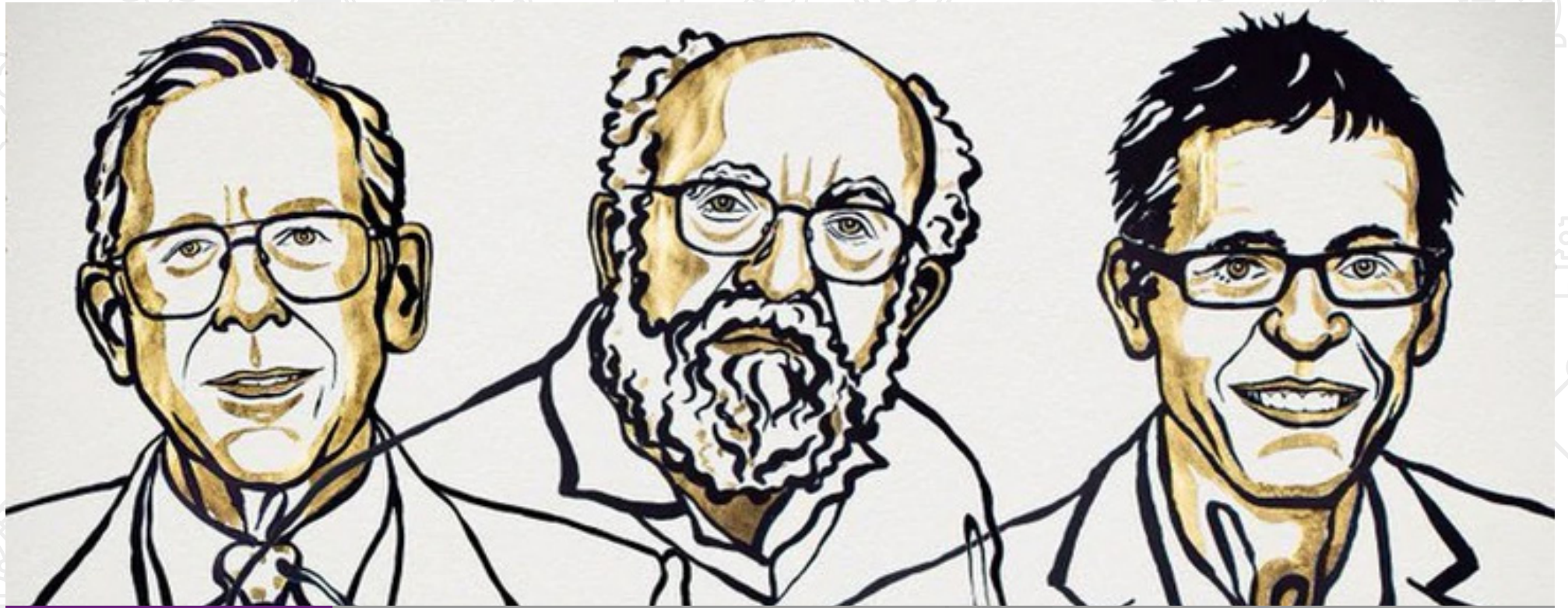
BECAS Y
DISTINCIONES



COLABORA

CURSOS

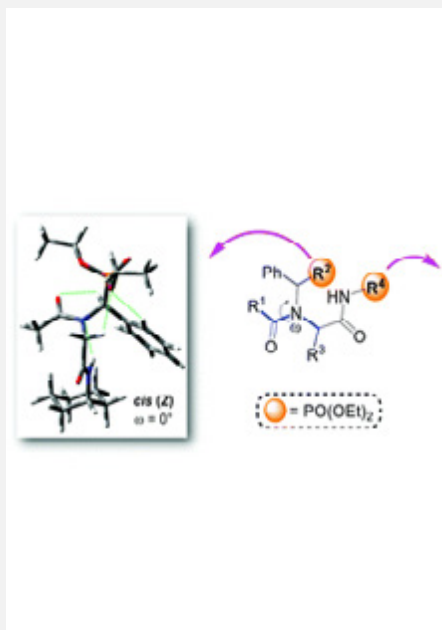




EL PREMIO NOBEL DE FÍSICA 2019 FUE OTORGADO A JAMES PEEBLES, MICHEL MAYOR Y DIDIER QUELOZ

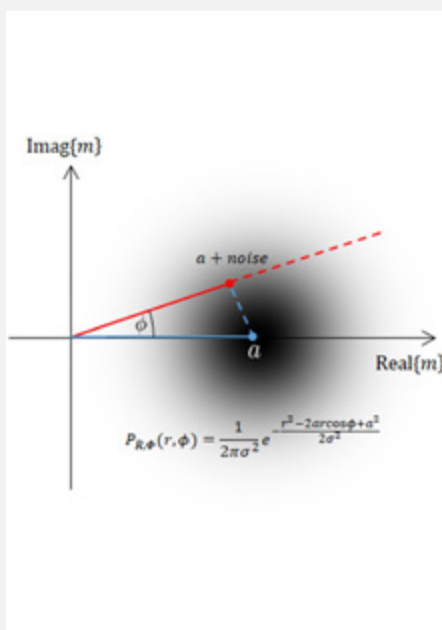
El primero es de nacionalidad canadiense y los restantes son de Suiza. Sus descubrimientos “cambiaron para siempre nuestra concepción del mundo”, destacó la Academia Sueca.

MÁS NOTICIAS



A STUDY OF THE CIS–TRANS ISOMERIZATION PREFERENCE OF N-ALKYLATED PEPTIDES CONTAINING PHOSPHORUS IN THE SIDE CHAIN AND BACKBONE

Alexander F. de la Torre, Akbar Ali, Odette Concepcion, **Ana L. Montero-Alejo**, Francisco M. Muñiz, Claudio A. Jiménez, Julio Belmar, José Luis Velázquez-Libera, Erix W. Hernández-Rodríguez, Julio Caballero.



NOISE ESTIMATION FOR THE VELOCITY IN MRI PHASE-CONTRAST

Pablo Irarrazaval, **Ali Dehghanfiroozabadi**, Sergio Uribe, Cristian Tejos, Carlos Sing-Long.

Branches on division algebras

Manuel Arenas, Luis Arenas-Carmona.

Microwrinkled pH-sensitive hydrogel films and their role on the cell adhesion/proliferation

Carmen M. González-Henríquez, **Susan C. Galleguillos-Guzmán**, Mauricio A. Sarabia-Vallejos, Ana Santos-Coquillat, Enrique Martínez-Campos, Juan Rodríguez-Hernández.

Substituent effects on the photophysical properties of amino-aurone-derivatives

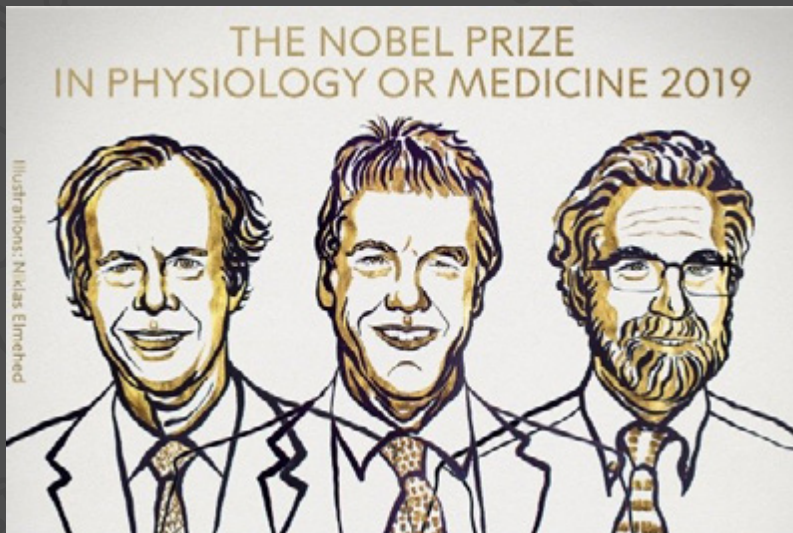
Karina Muñoz-Becerra, Nery Villegas-Escobar, César Zúñiga-Loyola, **Diego Cortés-Arriagada**, Alejandro Toro-Labbé.

In situ electroreduction of graphene oxide: Increased sensitivity for the determination of NADH

Daniela F. Báez, Felipe Tapia, **Paulina Sierra-Rosales**, Soledad Bollo.

Ni proletarios ni propietarios: especuladores. Una radiografía a los agentes de mercado de la gentrificación inmobiliaria en Santiago de Chile

Ernesto López-Morales, **Hernán Orozco Ramos**.



THE NOBEL PRIZE
IN PHYSIOLOGY OR MEDICINE 2019

PREMIO NOBEL DE MEDICINA PARA
LOS DESCUBRIDORES DEL SENSOR
DE OXÍGENO ESENCIAL PARA LA VIDA
ANIMAL

08 OCTUBRE, 2019

+ LEER



SEGUNDA ENCUESTA DE PERCEPCIÓN
DE CIENCIA Y TECNOLOGÍA EN CHILE
REVELA UN MAYOR INTERÉS EN
MEDIO AMBIENTE

01 OCTUBRE, 2019

+ LEER



MINISTRO DE CIENCIA ASEGURA
QUE LA COP25 "SERÁ UN PUNTO
DE INFLEXIÓN PARA MEJORAR
LA RELACIÓN ENTRE EVIDENCIA
CIENTÍFICA Y ACCIÓN CLIMÁTICA"

21 SEPTIEMBRE, 2019

+ LEER



DRAMATIC SEA-ICE MELT CAPS
TOUGH ARCTIC SUMMER

13 SEPTEMBER, 2019

+ LEER



CHINA:
HOW SCIENCE MADE A
SUPERPOWER

01 OCTOBER, 2019

+ LEER



ELSEVIER INVESTIGATES
HUNDREDS OF PEER REVIEWERS
FOR MANIPULATING CITATIONS

10 SEPTEMBER, 2019

+ LEER



CONVOCATORIAS Fondos Concursables



VOLVER AL MENÚ



• 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.

• CONCURSO PROYECTO DE INVESTIGACIÓN INICIATIVA SOUTHTRAC

DESCRIPCIÓN

Los objetivos de este concurso son: (i) Fortalecer la cooperación científica y tecnológica entre Chile, el D.F.G y las instituciones de investigación asociados al proyecto denominado SouthTRAC cuyo propósito es investigar el papel de los procesos atmosféricos, tanto dinámicos como químicos, en la tropósfera superior y la estratósfera inferior (UTLS), así como en la atmósfera central del hemisferio sur de Sudamérica, mediante el uso de observaciones atmosféricas realizadas desde la Aeronave Alemana de Investigación de Gran Altitud y Largo Alcance "HALO". En este sentido, el concurso busca financiar los pasajes y estadía de investigadores en Alemania para analizar en coordinación con las Instituciones de Investigación asociadas al proyecto los datos que se obtengan de las observaciones atmosféricas; (ii) Apoyar el desarrollo de proyectos de investigación conjunta dirigidos por grupos de investigadores/as en Chile y las instituciones de investigación asociados al proyecto denominado SouthTRAC promoviendo la movilidad y el desarrollo de la trayectoria de investigadores/as.

[MÁS INFORMACIÓN...](#)

FECHA CIERRE POSTULACIONES

25 Octubre 2019, hasta las 12.00 h de Chile continental.

• ANILLOS DE INVESTIGACIÓN EN CIENCIA Y TECNOLOGÍA PARA LA REGIÓN DE O'HIGGINS 2019

DESCRIPCIÓN

El objetivo de la línea de financiamiento Anillos de Investigación es fomentar el desarrollo científico y tecnológico del país, mediante el financiamiento de proyectos de investigación sustentados en un trabajo colaborativo, amplio y multidisciplinario. Para ello, el Programa de Investigación Asociativa fomenta la conformación de grupos de investigación científica, sin distinción de disciplina, en el seno de las instituciones de investigación, las que pueden postular en forma individual o asociada, con el fin de fortalecer tanto el desarrollo de las ciencias exactas y la tecnología, como la formación de capital humano al interior de éstas.

[MÁS INFORMACIÓN...](#)

FECHA CIERRE POSTULACIONES

14 Noviembre 2019, hasta las 15.00 h de Chile continental.



• CONSORCIOS TECNOLÓGICOS PARA LA INNOVACIÓN

DESCRIPCIÓN

Los consorcios tecnológicos para la innovación tienen por objeto fomentar el desarrollo de proyectos que generen valor a partir del alineamiento de necesidades del mercado con conocimientos tecnológicos, mediante proyectos de I+D de largo plazo, de forma dinámica y consorciada. En particular, las postulaciones que postulen a esta convocatoria, se deberán focalizar en resolver, al menos uno de los siguientes ámbitos: Ámbito N° 1: Gestión hídrica en agricultura para aumentar la competitividad y sustentabilidad del sector, eficiencia hídrica y reutilización en el sector sanitario; Ámbito N° 2: Innovaciones tecnológicas para nuevas fuentes hídricas.

[MÁS INFORMACIÓN...](#)

FECHA CIERRE POSTULACIONES

23 Octubre 2019, hasta las 15.00 h.

• SMARTFRUIT: DIGITALIZACIÓN DE CADENAS AGROALIMENTARIAS FRUTÍCOLAS

DESCRIPCIÓN

Queremos apoyar el desarrollo de tecnologías habilitantes, las cuales son el motor de la digitalización de la industria frutícola, enfocándose en los problemas, requerimientos y soluciones particulares de este sector en toda su cadena productiva. Además, queremos desarrollar y promover la adopción y el uso de estándares nacionales/internacionales abiertos y seguros para la interoperabilidad, que potencien el proceso productivo de la industria frutícola, promoviendo prácticas eficientes a través de soluciones estandarizadas e interoperables.

[MÁS INFORMACIÓN...](#)

FECHA CIERRE POSTULACIONES

30 Octubre 2019, hasta las 16.00 h.



• 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.

• CEAT - CENTER OF EXPERTISE IN TROPICAL AGRICULTURE

DESCRIPTION

Bayer's Center of Expertise in Tropical Agriculture – CEAT – in Latin America welcomes collaborations on novel approaches relating to sustainable crop farming in tropical environments. Objectives: Enabling technologies, approaches and services from ideas to marketed products in order to anticipate trends and support farmers' decision-making in tropical agriculture, relating to: a) resistance monitoring (relating to weeds, pests and diseases); b) future threats to tropical agriculture (E.G. new pests); c) digital farming; d) automatic / online systems for pest monitoring; e) integrated disease, weed, and insect management/control; f) combined seeds and crop protection strategies; and g) improved crops for higher yields.

[READ MORE...](#)

APPLICATION DEADLINE

Apply any time.



VOLVER AL MENÚ



CONVOCATORIAS

Becas y Distinciones

VOLVER
AL MENÚ

• 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.

• 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

• WFN-SUPPORTING CONSERVATION LEADERS / 2020 WHITLEY AWARDS

DESCRIPTION

Every year, we offer our annual Whitley Awards to effective grassroots conservationists working across the Global South. These awards are both an international profile prize and a form of project funding.

[READ MORE...](#)

APPLICATION DEADLINE

31 October 2019, midnight Greenwich Mean Time (GMT).

• UNITED NATIONS, EDUCATIONAL, SCIENTIFIC AND CULTURAL ORGANIZATION (UNESCO) / UNESCO HAMDAN PRIZE FOR THE EFFECTIVENESS OF TEACHERS

DESCRIPTION

The UNESCO-Hamdan bin Rashid Al-Maktoum Prize for Outstanding Practice and Performance in Enhancing the Effectiveness of Teachers was created in 2008 to support the improvement of teaching and learning quality in achieving the Education for All goals, which is one of UNESCO's priorities. Awarded every two years, the Prize is generously supported by His Highness Sheikh Hamdan Bin Rashid Al-Maktoum of the United Arab Emirates. The winners are selected by an International Jury composed of five distinguished professionals chosen for their high-level of knowledge and experience in teacher-related issues.

[READ MORE...](#)

APPLICATION DEADLINE

31 October 2019, (midnight, Paris time).

• UNITED NATIONS, EDUCATIONAL, SCIENTIFIC AND CULTURAL ORGANIZATION (UNESCO) / ICT IN EDUCATION PRIZE

DESCRIPTION

The UNESCO King Hamad Bin Isa Al-Khalifa Prize for the Use of ICT in Education recognizes innovative approaches in leveraging new technologies to expand educational and lifelong learning opportunities for all, in line with the 2030 Agenda for Sustainable Development and its Goal 4 on education. Established in 2005 with the support of the Kingdom of Bahrain, the Prize rewards individuals and organizations that are implementing outstanding projects and promoting the creative use of technologies to enhance learning, teaching and overall educational performance in the digital age.

[READ MORE...](#)

APPLICATION DEADLINE

31 October 2019.

• THE GOVERNMENT OF CANADA / ONGOING VANIER CANADIAN GOVERNMENT SCHOLARSHIPS 2019-2020

DESCRIPTION

The Government of Canada is delighted to invite applications for the Vanier Canada Graduate Scholarships (Vanier CGS) program 2019-2020 to strengthen Canada's ability to attract and retain world-class doctoral students and establish Canada as a global center of excellence in research and higher learning. This is a Canadian Government Scholarship. Vanier Scholars demonstrate leadership skills and a high standard of scholarly achievement in graduate studies in the social sciences and/or humanities, natural sciences and/or engineering and health.

[READ MORE...](#)

APPLICATION DEADLINE

31 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 / 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.

• SWISS NATIONAL SCIENCE FOUNDATION (SNSF)/ PRIMA GRANTS: 5-YEAR GRANTS IN SWITZERLAND FOR WOMEN AT POST-DOC LEVEL

DESCRIPTION

PRIMA grants are aimed at excellent women researchers who show a high potential for obtaining a professorship. PRIMA grantees conduct an independent research project with their own team at a Swiss research institution.

PRIMA grants cover the grantee's salary and project costs for a five-year period. With this competitive grant, PRIMA grantees can carve out a name for themselves and take the next step up the academic career ladder: a professorship. If a PRIMA grantee is appointed as a professor in Switzerland during the funding period, the remaining amount of the PRIMA grant will be transferred to the new place of work as research funds.

[READ MORE...](#)

APPLICATION DEADLINE

1 November 2019, 5 pm Swiss local time.

• 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.

• LUXEMBOURG NATIONAL RESEARCH FUND / POSTDOC GRANTS IN - ATTRACT PROGRAMME FOR JUNIOR & ESTABLISHED RESEARCHERS

DESCRIPTION

The ATTRACT programme is designed for researchers not yet established in Luxembourg, who demonstrate the potential to become leaders in their field of research. The scheme offers promising junior researchers the opportunity to set up their own research team within one of the country's research institutions.

Researchers are eligible between 2 and 8 years after their PhD, they must have an outstanding track record in their field which has to fit strategically to the research agenda of the Luxembourg host institution. Host institutions offer candidates the prospect of developing an own research line. ATTRACT fellows are offered individual coaching and a career track towards a tenured position.

[READ MORE...](#)

APPLICATION DEADLINE

15 November 2019, 14:00 CET (Central European Time).

• 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.

• 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).



VOLVER AL MENÚ



CONVOCATORIAS Cursos



VOLVER
AL MENÚ



- **FUNDAMENTALS OF NEUROSCIENCE,
PART 1: THE ELECTRICAL PROPERTIES OF THE NEURON**
HARVARD UNIVERSITY

OBJECTIVE:

Learn how electricity makes the neurons in your brain tick.

DURATION AND CONDITIONS:

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

STARTS ON: Free enrolling.

[READ MORE...](#)

- **FUNDAMENTALS OF NEUROSCIENCE,
PART 2: NEURONS AND NETWORKS**
HARVARD UNIVERSITY

OBJECTIVE:

Discover how neurons work together to create complex networks inside the brain.

DURATION AND CONDITIONS:

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

STARTS ON: Free enrolling.

[READ MORE...](#)

- **FUNDAMENTALS OF NEUROSCIENCE,
PART 3: THE BRAIN**
HARVARD UNIVERSITY

OBJECTIVE:

Discover what makes your brain tick in this third course in our introductory series in neuroscience.

DURATION AND CONDITIONS:

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

STARTS ON: Free enrolling.

[READ MORE...](#)

- **CATALYTIC CONVERSIONS FOR BIOBASED CHEMICALS
AND PRODUCTS**
WAGENINGEN UNIVERSITY & RESEARCH

OBJECTIVE:

Design new (bio)catalytic conversion routes that allow you to use biobased feedstocks to their highest potential as building blocks for chemicals, materials and fuels.

DURATION AND CONDITIONS:

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

STARTS ON: Free enrolling.

[READ MORE...](#)

- **METABOLOMICS IN LIFE SCIENCES**
OSAKA UNIVERSITY

OBJECTIVE:

Learn about metabolomics principles and their applications in life sciences.

DURATION AND CONDITIONS:

4 week. 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 PARA QUE SEAN INCLUIDAS EN UN PRÓXIMO BOLETÍN.



VOLVER AL MENÚ

Grupo Editorial

Dra. Elizabeth Troncoso Ahués

EDITORA GENERAL

DIRECTORA DE INVESTIGACIÓN

Vicerrectoría de Investigación y Postgrado

Ing. Grisel González Aranda

ASISTENTE DE INVESTIGACIÓN

Dirección de Investigación

Dr. René Ruby Figueroa

INVESTIGADOR

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

Colaboradores de esta edición

- Programa Institucional de Fomento a la I+D+i
- Programa de Comunicaciones y Asuntos Públicos
- Dirección Escuela de Postgrado