



Dirección de Investigación  
VICERRECTORÍA DE INVESTIGACIÓN Y POSTGRADO

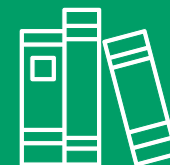
JUEVES 06 OCTUBRE, 2022 | AÑO VII | NÚMERO 16

# Newsletter de I+D+i

INVESTIGACIÓN, DESARROLLO E INNOVACIÓN



NOTICIAS



PUBLICACIONES CIENTÍFICAS



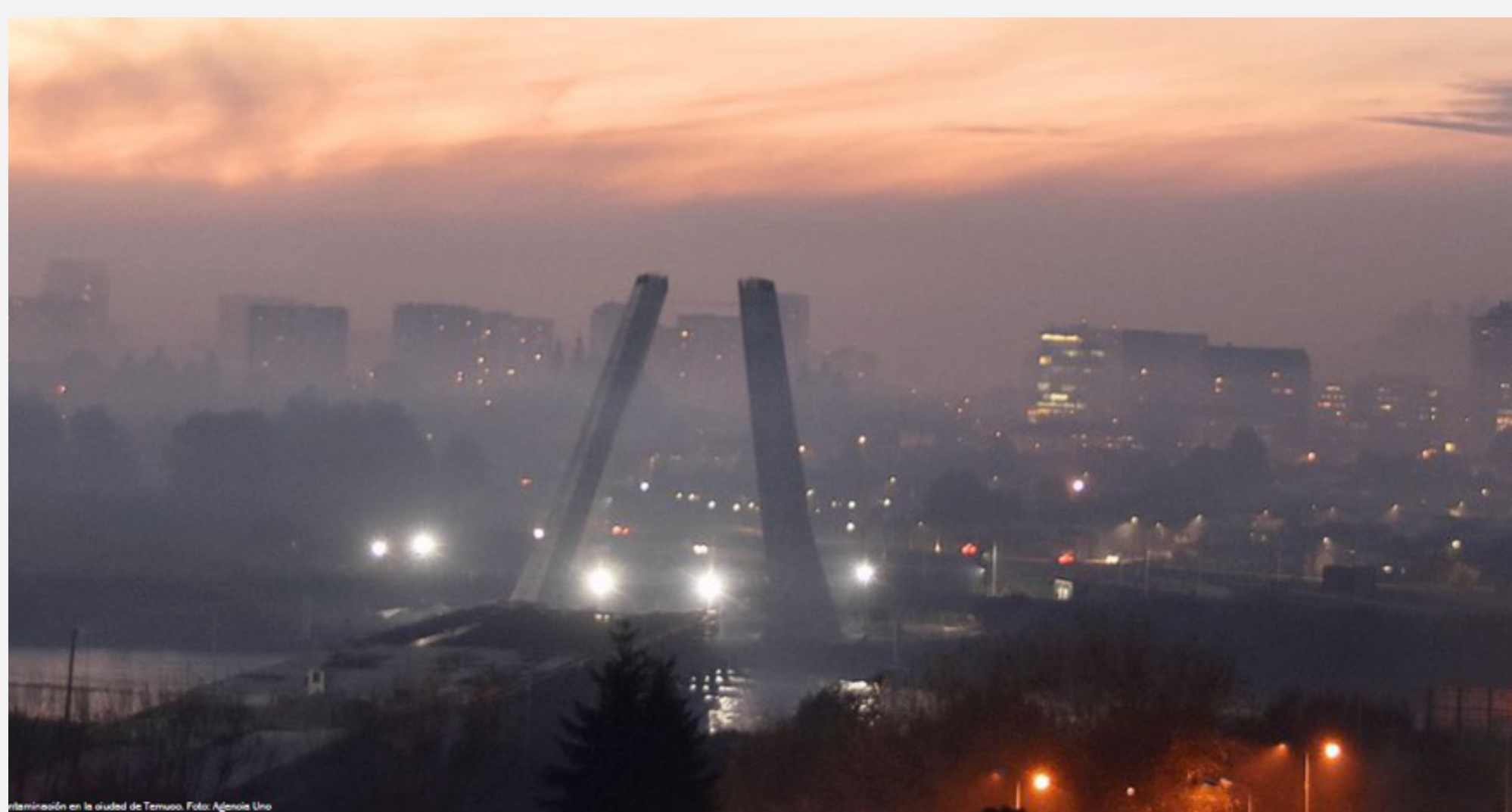
COMUNIDAD CIENTÍFICA UTEM



RECURSOS PARA INVESTIGACIÓN



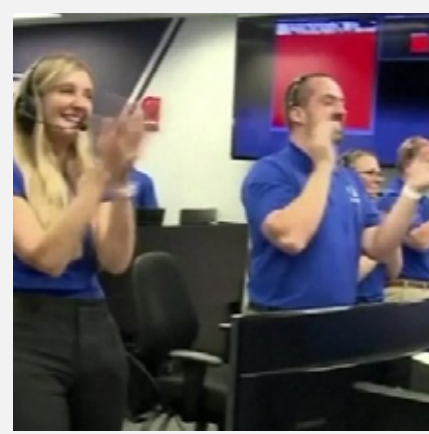
## Noticias



### Realizan el primer y más detallado mapa de la contaminación en Chile: sector residencial es responsable de más del 90% de las emisiones

Este sector también produce el 81% del monóxido de carbono y el 87% de los Compuestos Orgánicos Volátiles, un grupo de gases asociados a la destrucción de la capa de ozono y al cambio climático.

> [Leer noticia](#)



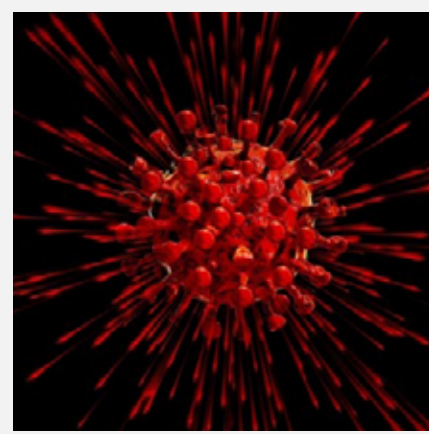
27 septiembre 2022

#### **Dimorphos: Nasa flies spacecraft into asteroid in direct hit**



Agosto 2022

#### **El color tiene un coste**



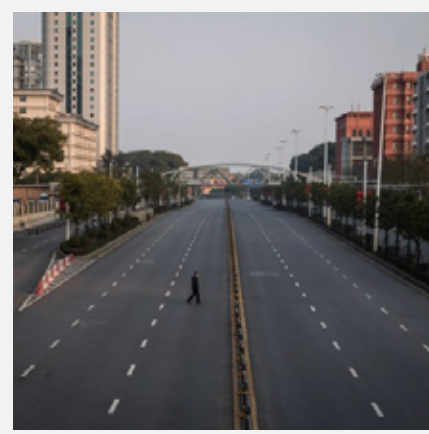
24 agosto 2022

#### **Study reveals immune mechanism responsible for some fatal COVID-19 cases**



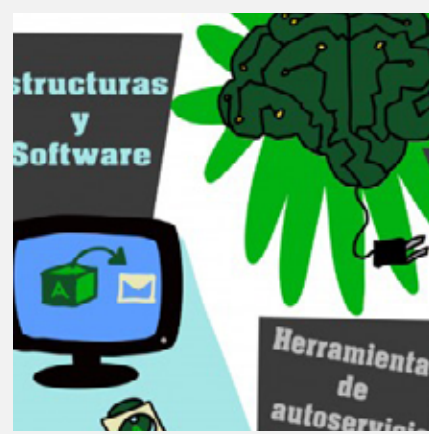
23 agosto 2021

#### **¿Qué busca y por qué es importante la descentralización de la ciencia?**



31 agosto 2022

#### **What scientists have learnt from COVID lockdowns**

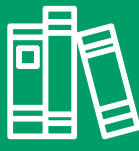


03 septiembre 2022

#### **Big data, una realidad que está cambiando nuestra vida**



NOTICIAS



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RECURSOS PARA  
INVESTIGACIÓN

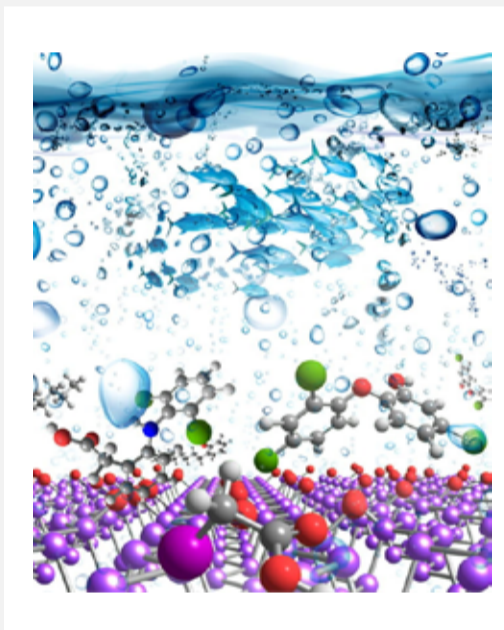
# Publicaciones Científicas UTEM



## Digital preservation strategies of sound archives. Systematized review

*Cherie Flores-Fernández; Carolina Gatica Molina; Alexander González Correa; Tamara Núñez Quinteros.*

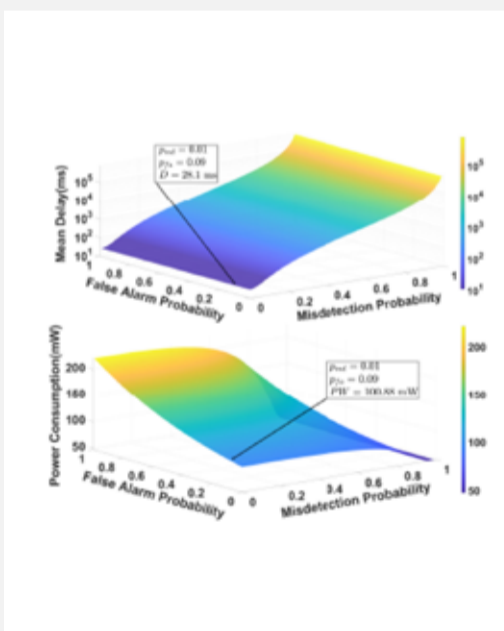
REVISTA ESPAÑOLA DE DOCUMENTACIÓN CIENTÍFICA (2022) 45(2), E321



## A first-principles study on the adsorption properties of phosphorene oxide for pollutant removal from water

*Diego Cortés-Arriagada, Natacha Barria, Daniela E. Ortega, Ingrid Araya-Durán, María Belén Camarada*

JOURNAL OF MOLECULAR LIQUIDS (2022) 357, 119103



## Energy-Efficient Wake-Up Signalling for Machine-Type Devices Based on Traffic-Aware Long-Short Term Memory Prediction

*David E. Ruiz-Guirola; Carlos A. Rodríguez-López; Samuel Montejo-Sánchez; Richard Demo Souza; Onel L. A. López; Hirley Alves*

IEEE INTERNET OF THINGS JOURNAL (2022)



## Investigating the major factors that contribute to satisfaction with university formation in Psychology and Teaching in Chile

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

JOURNAL OF MARKETING FOR HIGHER EDUCATION (2022) 32:1, 37-53



NOTICIAS



PUBLICACIONES  
CIENTÍFICAS



RECURSOS PARA  
INVESTIGACIÓN

# Comunidad Científica UTEM

## ENTREVISTAS



### **Dra. Guadalupe Pizarro Guerra**

*Académica del Departamento de Química  
Facultad de Ciencias Naturales, Matemática y Medio Ambiente*

EMAIL: [gpizarro@utem.cl](mailto:gpizarro@utem.cl)

#### **LÍNEA DE INVESTIGACIÓN**

Síntesis y Caracterización de Polímeros y materiales estructurados

#### **PROBLEMA U OPORTUNIDAD AL QUE APUNTA EL DESARROLLO DE ESTA INVESTIGACIÓN**

El propósito de esta línea de investigación es diseñar nuevos materiales que sean capaces de ser aplicados a resolver problemas ambientales como retención de metales pesados, retención de tintes, retención o liberación controlada de herbicidas.

#### **ÁREAS DE ESTUDIO QUE COMPLEMENTARÍAN SU INVESTIGACIÓN**

Estudios de superficies nano o microestructuradas, materiales poliméricos solubles en agua o hidratables (hidrogeles), materiales poliméricos o híbridos termoresistentes



### **Dr. Mauricio Moncada Basualto**

*Académico del Programa Institucional de Fomento a la I+D+i (PIDi)  
Dirección de Investigación*

EMAIL: [mmoncadab@utem.cl](mailto:mmoncadab@utem.cl)

#### **LÍNEA DE INVESTIGACIÓN**

Química Medicinal: diseño, síntesis, vehiculización y evaluación de compuestos con actividad tripanocida en diferentes modelos biológicos.

#### **PROBLEMA U OPORTUNIDAD AL QUE APUNTA EL DESARROLLO DE ESTA INVESTIGACIÓN**

Generación de compuestos nuevos como una alternativa de tratamiento para la enfermedad de Chagas, considerada por la OMS como una enfermedad desatendida, ya que se relaciona con el tercer mundo.

#### **ÁREAS DE ESTUDIO QUE COMPLEMENTARÍAN SU INVESTIGACIÓN**

Medicina, Ingeniería en biotecnología, Farmacología.





# Recursos para investigación

## BECAS

FONDOS

**BECAS**

CURSOS

EVENTOS I+D+i

INSPIRATEC Y MINISTERIO DE ECONOMÍA, FOMENTO Y TURISMO DE CHILE

**[Premio InspiraTEC](#)**

FECHA CIERRE POSTULACIONES: 11 Octubre 2022.

AGENCY FOR SCIENCE, TECHNOLOGY AND RESEARCH SINGAPORE

**[Singapore International pre graduate awards \(SIPGA\)](#)**

APPLICATION DEADLINE: 15 October 2022 for period March 2023.

FEDERATION OF EUROPEAN BIOCHEMICAL SOCIETIES FEBS/ EUROPEAN MOLECULAR BIOLOGY ORGANIZATION EMBO

**[FEBS | EMBO Women in Science Award](#)**

APPLICATION DEADLINE: 15 October 2022.

AGCID CHILE

**[Promotion of Hydrogen Energy Use -Energy Policy Toward Hydrogen -Based CO2 Free Society](#)**

APPLICATION DEADLINE: 17 October 2022.

ORGANIZACIÓN DE LOS ESTADOS AMERICANOS (OEA)- UNIVERSIDAD EUROPEA DE MADRID

**[Convocatoria de Becas PAEC Universidad Europea - OEA](#)**

FECHA CIERRE POSTULACIONES: 21 Octubre 2022.

IDSA FOUNDATION

**[Microbial Pathogenesis in Alzheimer's Disease Grant](#)**

APPLICATION DEADLINE: 30 October 2022.

SÃO PAULO RESEARCH FOUNDATION (FAPESP)

**[SPRINT- São Paulo Researchers in International Collaboration initiative](#)**

APPLICATION DEADLINE: 31 October 2022.

SOCIEDAD DE BIOQUÍMICA Y BIOLOGÍA MOLECULAR DE CHILE

**[Pasantías en Instituto de Física de San Carlos \(Brasil\)](#)**

FECHA CIERRE POSTULACIONES: 31 Octubre 2022.

IUPAC

**[IUPAC 2023 Distinguished Women in Chemistry/Chemical Engineering Award](#)**

APPLICATION DEADLINE: 1 November 2022.

UNIVERSITY OF ST.GALLEN

**[International Postdoctoral Fellowships](#)**

APPLICATION DEADLINE: 2 November 2022.

THE ROYAL SOCIETY

**[Royal Society Wolfson Fellowship](#)**

APPLICATION DEADLINE: 9 November 2022 to 3:00 p.m. (UK Time).

ISRAEL INSTITUTE FOR ADVANCED STUDIES (IIAS)

**[Open Call for Individual Fellowships 2024-2025](#)**

APPLICATION DEADLINE: 1 December 2022 (Midnight, Israel time)

FUNDACIÓN LUKSIC SCHOLARS

**[Luksic Visiting Scholars Program at Stanford Center for Latin American Studies](#)**

FECHA CIERRE POSTULACIONES: 7 Noviembre 2022.

CENTRO DE INVESTIGACIÓN BIOMÉDICA EN RED-DIABETES Y ENFERMEDADES METABÓLICAS ASOCIADAS

**[Acciones Movilidad CIBERDEM 2022](#)**

FECHA CIERRE POSTULACIONES: 31 Diciembre 2022.

Nota: El plazo de presentación al llamado queda abierto de forma permanente para ambas modalidades de estancia. La fecha de cierre vendrá impuesta por la disponibilidad presupuestaria del Programa de Formación del CIBERDEM.

ALEXANDER VON HUMBOLDT FOUNDATION

**[Humboldt Research Fellowship](#)**

APPLICATION DEADLINE: Applications can be submitted online at any time.

ALEXANDER VON HUMBOLDT FOUNDATION

**[Fraunhofer-Bessel Research Award](#)**

APPLICATION DEADLINE: Nominations can be submitted at any time.

ALEXANDER VON HUMBOLDT FOUNDATION

**[Friedrich Wilhelm Bessel Research Award](#)**

APPLICATION DEADLINE: Nominations can be submitted at any time.

ALEXANDER VON HUMBOLDT FOUNDATION

**[Humboldt Research Award](#)**

APPLICATION DEADLINE: Nominations can be submitted at any time.

FEDERATION OF EUROPEAN BIOCHEMICAL SOCIETIES (FEBS)

**[Short-Term Fellowships](#)**

APPLICATION DEADLINE: Any time (Applications may be made throughout the year, but should be submitted via the online application system at least three months before the proposed starting date).

EUROPEAN MOLECULAR BIOLOGY ORGANIZATION (EMBO)

**[Postdoctoral Fellowships](#)**

APPLICATION DEADLINE: Any time (Applications are accepted throughout the year and enter one of two evaluation cycles depending on the time of submission. For autumn evaluation, submit applications by the second Friday in August).

ACS CHEMISTRY FOR LIFE

**[Gerda Henkel Stiftung PHD Scholarships](#)**

APPLICATION DEADLINE: The application can be submitted at any time (no deadline).

CORFO

**[Becas capital Humano](#)**

FECHA CIERRE POSTULACIONES: Postulaciones abiertas durante todo el año.

FONDOS

**BECAS**

CURSOS

EVENTOS I+D+i



SUBIR

# Recursos para investigación

## CURSOS

FONDOS

BECAS

**CURSOS**

EVENTOS I+D+i

**ISRAELX – TEL AVIV UNIVERSITY****• Viruses & How to Beat Them: Cells, Immunity, Vaccines**

**OBJETIVO:** Learn how our immune system fights viral disease and make better vaccination decisions with a clearer understanding of Cells, Viruses, and Immunity.

**STARTS ON:** Open application

[READ MORE...](#)

**DAVIDSON COLLEGE****• Drug Discovery & Medicinal Chemistry**

**OBJETIVO:** Learn how scientists in drug development modify and test molecules to improve potency and reduce toxicity. Discover the criteria that regulatory agencies use to approve molecules that are shown to be both safe and effective as pharmaceuticals for the treatment and prevention of diseases.

[READ MORE...](#)

**UNIVERSITY OF EDINBURGH****• Climate Solutions**

**OBJETIVO:** We are in a Climate Emergency. The actions we all choose to take over the next decade will decide whether we succeed or fail to meet the biggest challenge to our civilisation in the 21st century. Learn how you can help tackle climate change.

**STARTS ON:** Open application

[READ MORE...](#)

**coursera****UNIVERSITÉ DE GENÈVE****• Classical papers in molecular genetics**

**OBJETIVO:** You have all heard about the DNA double helix and genes. Many of you know that mutations occur randomly, that the DNA sequence is read by successive groups of three bases (the codons), that many genes encode enzymes, and that gene expression can be regulated. These concepts were proposed on the basis of astute genetic experiments, as well as often on biochemical results. The original articles were these concepts appeared are however not frequently part of the normal curriculum of biologists, biochemists and medical students. This course proposes to read study and discuss a small selection of these classical papers, and to put these landmarks in their historical context. Most of the authors displayed interesting personal histories and many of their contributions go beyond not only the papers we will read but probably all their scientific papers. Our understanding of the scientific process, of the philosophy underlying the process of scientific discovery, and on the integration of new concepts is not only important for the history of science but also for the mental development of creative science.

**STARTS ON:** Open application

[READ MORE...](#)

**LUND UNIVERSITY****• Circular Economy - Sustainable Materials Management**

**OBJETIVO:** This course looks at where important materials in products we use every day come from and how these materials can be used more efficiently, longer, and in closed loops. This is the aim of the Circular Economy, but it doesn't happen on its own. It is the result of choices and strategies by suppliers, designers, businesses, policymakers and all of us as consumers. In addition to providing many cases of managing materials for sustainability, the course also teaches skills and tools for analyzing circular business models and promotes development of your own ideas to become more involved in the transition to a Circular Economy. You will learn from expert researchers and practitioners from around Europe as they explain core elements and challenges in the transition to a circular economy over the course of 5 modules: Module 1) Materials. This module explores where materials come from, and builds a rationale for why society needs more circularity. Module 2) Circular Business Models. In this module circular business models are explored in-depth and a range of ways for business to create economic and social value are discussed. Module 3) Circular Design, Innovation and Assessment. This module presents topics like functional materials and eco-design as well as methods to assess environmental impacts. Module 4) Policies and Networks. This module explores the role of governments and networks and how policies and sharing best practices can enable the circular economy. Module 5) Circular Societies. This module examines new norms, forms of engagement, social systems, and institutions, needed by the circular economy and how we, as individuals, can help society become more circular.

**STARTS ON:** Open application

[READ MORE...](#)

**YONSEI UNIVERSITY****• Recent Advances in Freeform Electronics**

**OBJETIVO:** In this course, the learners will understand fundamental basic backgrounds of p-n junctions, diodes and MOSFETs (Metal Oxide Semiconductor Field Effect Transistors). Also, recent approaches on flexible / stretchable electronics, transparent optoelectronics, and printed electronics using one dimensional or two dimensional nanomaterials will be introduced. Furthermore, the formation of high-performance, transparent thin films or conductors using novel materials such as cellulose nanofibers or metal nanofibers is included for course materials. Examples of device fabrications, including touch screen panels, gas / chemical / bio sensors, smart contact lenses, wireless and transparent antennas, and OLEDs, are also introduced for next generation electronic devices.

**STARTS ON:** Open application

[READ MORE...](#)

**PROGRAMA CISCO NETWORKING ACADEMY****• Cursos gratuitos - Women Rock IT - en español**

**OBJETIVO:** Le presentamos cuatro cursos gratuitos, en línea y de auto inscripción del programa Cisco Networking Academy. Estos cursos están disponibles en español para que los lleve a su propio ritmo. Prepárese con las destrezas digitales necesarias en esta nueva economía digital. Insíbase ahora y descubra su pasión por la tecnología.

Elige entre:

- Introducción a la ciberseguridad.
- Introducción al Internet de las cosas (IoT).
- Linux Essentials.
- Entrepreneur.

**COMIENZA:** Ventanilla abierta.

[MÁS INFORMACIÓN...](#)

FONDOS

BECAS

**CURSOS**

EVENTOS I+D+i

↑  
SUBIR

# Recursos para investigación

## EVENTOS I+D+i

FONDOS

BECAS

CURSOS

**EVENTOS I+D+i**

### CLARIVATE PHARMAVISION INDIA 2022

**¿WHEN?**

12 October 2022, 03:00 am to 04:40 pm (Indian Standard Time).

**¿WHERE?**

Virtual webinar

[READ MORE...](#)

### BASICS OF BIBLIOMETRICS WORKSHOP OCT 2022 DAY 1

**¿WHEN?**

17 October 2022, 11:00 am to 12:00 pm (Indian Standard Time).

**¿WHERE?**

Virtual webinar

[READ MORE...](#)

### BASICS OF BIBLIOMETRICS WORKSHOP OCT 2022 DAY 2

**¿WHEN?**

19 October 2022, 11:00 am to 12:00 pm (Indian Standard Time).

**¿WHERE?**

Virtual webinar

[READ MORE...](#)

### BASICS OF BIBLIOMETRICS WORKSHOP OCT 2022 DAY 3

**¿WHEN?**

21 October 2022, 11:00 am to 12:00 pm (Indian Standard Time).

**¿WHERE?**

Virtual webinar

[READ MORE...](#)

### ACCOUNT MANAGEMENT TRAINING DAY 1

**¿WHEN?**

15 November 2022, 9:00 am to 6:30 pm (Eastern Standard Time).

**¿WHERE?**

Virtual webinar

[READ MORE...](#)

### ACCOUNT MANAGEMENT TRAINING DAY 2

**¿WHEN?**

16 November 2022, 8:45 am to 4:15 pm (Eastern Standard Time).

**¿WHERE?**

Virtual webinar

[READ MORE...](#)

### ONCOLOGY ACCOUNT MANAGEMENT TRAINING DAY 1

**¿WHEN?**

16 November 2022, 9:15 am to 6:30 pm (Eastern Standard Time).

**¿WHERE?**

Virtual webinar

[READ MORE...](#)

### ONCOLOGY ACCOUNT MANAGEMENT TRAINING DAY 2

**¿WHEN?**

17 November 2022, 9:15 am to 3:15 pm (Eastern Standard Time).

**¿WHERE?**

Virtual webinar

[READ MORE...](#)

### PREDICTING THROUGH MULTIPLEXING: IMMUNE CHECKPOINT INHIBITION BENEFITS IN ADVANCED NSCLC

**¿WHEN?**

12 October 2022, 11:00 am (Eastern Time).

**¿WHERE?**

Virtual webinar

[READ MORE...](#)

### ADVANCING DISCOVERY AND TRANSLATIONAL RESEARCH WITH INNOVATIONS IN SPATIAL BIOLOGY

**¿WHEN?**

19 October 2022, 12:00 pm (Eastern Time).

**¿WHERE?**

Virtual webinar

[READ MORE...](#)

### SEMINARIO INTERNACIONAL: ESTRATEGIAS PARA ENFRENTAR LA CRISIS CLIMÁTICA

**¿CUÁNDO?**

24 Octubre 2022, de 9:00 a 11:30 horas.

**¿DÓNDE?**

Modalidad híbrida.

[MÁS INFORMACIÓN...](#)

### PLASTICITY ACROSS SCALES: FROM MOLECULES TO PHENOTYPES

**¿WHEN?**

26-29 October 2022 (virtual registration 19 October 2022).

**¿WHERE?**

Virtual Symposium.

[READ MORE...](#)

### THE NEUROVASCULAR INTERFACE

**¿WHEN?**

7-10 November 2022 (virtual registration 31 October 2022).

**¿WHERE?**

Virtual Symposium.

[READ MORE...](#)

### FROM FUNCTIONAL GENOMICS TO SYSTEMS BIOLOGY

**¿WHEN?**

15-18 November 2022 (virtual registration 8 November 2022).

**¿WHERE?**

Virtual Symposium.

[READ MORE...](#)

### WEBINARS: CIENCIA EN DESARROLLO

- **La salud humana y los desafíos globales de las enfermedades crónicas e infecciosas.**

9 Noviembre 2022, 10:00 a 12:00 horas

(Horario Sao Paulo, Brasil).

- **Violencia y radicalización**

7 Diciembre 2022, 10:00 a 12:00 horas

(Horario Sao Paulo, Brasil).

**¿DÓNDE?**

Webinar virtual.

[MÁS INFORMACIÓN...](#)

### VII CONGRESO LATINOAMERICANO Y DEL CARIBE DE SALUD GLOBAL

**¿CUÁNDO?**

16 - 18 Noviembre 2022.

**¿DÓNDE?**

Modalidad híbrida

[MÁS INFORMACIÓN...](#)

FONDOS

BECAS

CURSOS

**EVENTOS I+D+i**↑  
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# 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.

## GRUPO EDITORIAL

**Dr. René Ruby Figueroa**

**EDITOR GENERAL – DIRECTOR DE INVESTIGACIÓN**

VICERRECTORÍA DE INVESTIGACIÓN Y POSTGRADO

**Ing. Gricel González Aranda**

**ASISTENTE DE INVESTIGACIÓN**

DIRECCIÓN DE INVESTIGACIÓN

**Dr. Mauricio Moncada Basualto**

**INVESTIGADOR**

PROGRAMA INSTITUCIONAL DE FOMENTO A LA

I+D+i (PIDi) UTEM

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DIRECCIÓN DE INVESTIGACIÓN

**Dra. Elizabeth Troncoso Ahués**

**ACADÉMICA – PROFESORA ASOCIADA**

FACULTAD DE CIENCIAS NATURALES, MATEMÁTICA Y

MEDIO AMBIENTE

## COLABORADORES DE ESTA EDICIÓN

- Programa Institucional de Fomento a la I+D+i
- Programa de Comunicaciones y Asuntos Públicos
- Vicerrectoría Académica (VRAC)