Becas de la Fundación Teófilo Hernando para asistir a la Escuela Internacional de Farmacología “Teófilo Hernando” (UIMP, Campus de La Magdalena, Santander)

La XX edición de la Escuela de Farmacología Teófilo Hernando se celebrará la semana del 17-21 de julio de 2023 en la sede de la Universidad Internacional Menéndez Pelayo (UIMP) de Santander (Palacio de la Magdalena). Será en inglés y discurrirá según el programa adjunto a esta convocatoria.

La Fundación Teófilo Hernando (FTH) otorga 20 becas para asistir a dicha Escuela. Los requisitos y características de las becas son los siguientes:

1. Solicitantes: Doctorandos y posdoctorandos en ciencias biomédicas, de España y el extranjero. Los alumnos becados deben presentar en inglés un trabajo de investigación propio en las sesiones de jóvenes investigadores de las tardes.

2. Las becas incluyen matrícula, estancia y manutención.

3. Documentación necesaria: carta de solicitud, CV y título provisional de la presentación.

4. Enviar la documentación vía correo electrónico a María Fagoaga, secretaria de la FTH, a la siguiente dirección: maria.fagoaga@ifth.es.


*La Escuela se imparte en lengua inglesa.*
XX International School of Pharmacology “Teófilo Hernando”
Santander, Spain

RETINA DEGENERATION: FRONTIER THERAPIES TO PREVENT BLINDNESS
(17-21 July, 2023; Palacio de La Magdalena, Santander, Spain)

Directors: Antonio G. García
Universidad Autónoma de Madrid, Spain
Nicolás Cuenca
Universidad de Alicante, Spain

Academic secretary: Luis Gandía Juan
Universidad Autónoma de Madrid, Spain

www.UIMP.es
www.ifth.es

Professor Teófilo Hernando was the pioneer of Spanish pharmacology. At the beginning of the XX Century, he introduced pharmacology as teaching and research subjects at the universities of Spain. To honor his memory we created the Instituto Fundación Teófilo Hernando for Drug Discovery, at Universidad Autónoma de Madrid, Madrid, Spain. This XX edition of the School deals with frontier advances in the prevention of blindness caused by various eye diseases leading to retina degeneration. This XX edition
of the International Teófilo Hernando’s School will enlighten young PhD and postdoctoral students, as well as graduate students in the area of diseases leading to retinal degeneration and blindness such as diabetes, glaucoma, retinitis pigmentosa or age-associated macular degeneration. Frontier pharmacological neuroprotective treatments or advanced therapies will be central stage in the School. Additionally, PhD and postdoctoral students will have the opportunity of presenting their work to the class and professors. It is a tradition in this School that professors and students read a poem to the class dealing with their own culture. In doing so, humanities and science walk hand in hand, as in Renaissance times, 500 years ago. Hence, the School is a science and humanistic unique experience that reminds the foundation of UIMP by poets and scientists near 100 years ago.

PRELIMINARY PROGRAMME

Monday: 17 July

10:00 School inauguration by directors and UIMP academic authority

10:30 Lecture 1: Pathway-based target identification and drug discovery for retinal degeneration

Anand Swaroop

Neurobiology Neurodegeneration & Repair Laboratory, National Eye Institute, USA

12:00 Lecture 2: Characterizing retinal disease mechanisms and gene therapy

Michel Cheetham

University College London, Uk

14:00 Lunch

15:00 Young Researcher Presentations (YRP-1)

Coordinator: Luis Gandía (Universidad Autónoma de Madrid, Spain)

17:00 Free

Tuesday: 18 July

10:00 Lecture 3: Stress and therapeutic strategies for retinal neurodegenerative diseases

Pedro Lax

Universidad de Alicante, Spain

12:00 Lecture 4: Calcium signaling, cell death and pharmacological neuroprotection

Antonio G. García,

Universidad Autónoma de Madrid and Fundación Teófilo Hernando, Madrid, Spain
14:00       Lunch
15:00       Young Researcher Presentations (YRP-2)
Coordinator: Victoria Maneu (Universidad de Alicante)
17:00       Free

**Wednesday 19 July**

10:00 *Lecture 5: Pathomechanisms of inherited retinal degeneration and perspectives for neuroprotection*

Marius Ueffings's  
*University of Tubingen, Germany*

12:00 *Lecture 6: Retina as an early biomarker for Parkinson disease*

Nicolás Cuenca  
*University of Alicante, Spain*

14:00       Lunch
15:00       Young Researcher Presentations (YRP-3)
Coordinator: Luis Gandía (IFTH/UAM, Spain)
17:00       Free

**Thursday: 20 July**

10:00 *Lecture 7: Gene therapies for ocular disorders.*

Jane Farrar  
*School of Genetics and Microbiology Trinity College, Dublin, Ireland*

12:00 *Lecture 8: Stem cells and neurogenesis in the retina*

Muriel Perron  
*Paris-Saclay Institute of Neuroscience, Paris, France*

14:00       Lunch
15:00       Young Researcher Presentations (YRP-4)
Coordinator: Pedro Lax,  
Universidad de Alicante, Spain
17:30       Free

20:30       Traditional informal dinner of professors and students at restaurant “La Nueva
Friday: 21 July

10:00  Lecture 9: Role of autophagy in retinal diseases
       Patricia Boya.
       University of Fribourg, Switzerland

11:30  Lecture 10 Modulation of microRNA expression: a new therapeutic avenue for inherited retinal disease
       Sandro Banfi
       Department of Precision Medicine, University of Campania Luigi Vanvitelli, Italy

13:00  Closing ceremony by directors, professors and students

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THE INTERNATIONAL PHARMACOLOGY SCHOOL “TEÓFILO HERNANDO”: ORIGIN, DEVELOPMENT AND ACTIVITIES

The International Pharmacology School “Teófilo Hernando” was initiated in 1996, in the frame of the summer courses of UIMP. At that time, Rector José Luis García Delgado invited professor Antonio G. García (Universidad Autónoma de Madrid) to organise this School.

The School was named after Teófilo Hernando, a Spanish MD/PhD pharmacologist who was trained under Oswald Schmiedeberg at Strasbourg, the first formal Pharmacology School where many pharmacologists throughout the word were trained at the end of the XIX century and the beginning of the XX century and then developed the subject of basic and clinical pharmacology in their own countries. Teófilo Hernando introduced pharmacology as an independent teaching and science subject at the Universidad Complutense de Madrid, along the first three decades of the XX century this academic matter soon spread out to several Spanish universities by pharmacologists trained under professor Hernando. He trained numerous other disciples that extended the subject to many other Spanish universities along the XX century.

The format of a UIMP’s School (“Escuela”) is based in the critical analysis in the frontier of knowledge of a given scientific topic, along a week (Monday to Friday) by scientists and students of all over the world. Two sessions are delivered in the morning by invited scientists, lasting each one two hours, with vivid discussions. In the afternoon,
PhD students and postdocs present their ongoing scientific work as short oral communications. Emphasis is always made in the identification of new biological drug targets that illuminate the design, synthesis and development of new medicines to treat human diseases.

Since 1996, 19 editions of the School have been held. Over 100 internationally recognised scientists and over 500 students have since then attended the School. The subjects of the subsequent Schools were as follows:

1. Drugs and their receptors (1996)
2. Drugs for the brain (1997)
4. Biotechnological drugs (2001)
7. Chronic inflammation and osteoarthritis (2008)
15. Alzheimer’s and other neurodegenerative diseases: Pharmacological therapeutic advances (2016)
17. Frontier therapies in brain diseases: focus on purinergic signalling (2018)
19. Advanced Therapies For Human Disease (2022)

**ACHIEVEMENTS**

In these 25 years of the School, two are its main achievements: (i) the contribution to the multidisciplinary training of young PhD students and postdocs; (ii) the establishment of an international forum to analyse and discuss frontier basic knowledge with potential to serve as a platform for drug discovery and development to prevent, mitigate or cure human diseases. Of note is the fact the successive summer schools run in a friendly atmosphere with vivid discussions and good interaction among professors and students as well as among students themselves, from different countries. We believe that the School activities are contributing to reinforce the value of scientific collaboration, open exchange of ideas, friendship and respect for everyone throughout Europe.
SCIENTISTS THAT PARTICIPATED IN PAST SCHOOLS

The following scientists from different countries participated as professors in the School:

- Francisco Abad, Hospital Universitario de La Princesa; Madrid, Spain
- Andrey Abramov, University College London, UK
- José Enrique Alés, Hospital Ruber Internacional, Madrid, Spain
- Guillermo Alvarez de Toledo, Universidad de Sevilla, Spain
- Celso Arango, Universidad Complutense de Madrid, Spain
- Alfonso Araque, University of Minnesota, USA
- Jesús Avila, CBM/UAM/CSIC, Madrid, Spain
- Mariano Barbacid; Centro Nacional de Investigaciones Oncológicas, Instituto de Salud Carlos III, Madrid, Spain
- Josep Baselga, Hospital Vall d'Hebron, Barcelona, Spain
- Carlos Belmonte, Instituto de Neurociencias, Universidad Miguel Hernández, Alicante, Spain
- Katherine Benson, Royal College of Surgeons in Ireland, Dublin, Ireland
- Félix Bermejo, Hospital Universitario 12 de Octubre, Madrid, Spain
- Jan G. Bjaalie, Institute of Basic Medical Sciences, Oslo, Norway
- Francisco J. Blanco García, Hospital Juan Canalejo; La Coruña, Spain
- María A. Blasco, Centro Nacional de Investigaciones Oncológicas, Madrid, Spain
- Rafael Blesa, Hospital de la Sta Creu i St. Pau, Barcelona, Spain
- María Laura Bolognesi, University of Bologna, Italy
- Ricardo Borges Jurado, Universidad de la Laguna; Tenerife, Spain
- Washington Buño, Instituto Cajal, CSIC, Madrid, Spain
- Fernando Cañas, Department of Psychiatry, Hospital Dr Rodriguez Lafora, Madrid, Spain
- Emilio Carbone, Universidad de Turin; Italy
- José Castillo, Hospital Clínico de Santiago de Compostela, Spain
- Marc Ceusters, Janssen Pharmaceutica, Beerse, Belgium
- ManuelCriado, Neuroscience Institute; Miguel Hernández University, Elche, Spain
- Antonio Cuadrado, Universidad Autónoma de Madrid /CSIC, Spain
- Valentín Cuervas-Mons, Clínica Puerta de Hierro; UAM, Madrid, Spain
- Jack C. de la Torre, Department of Neuropsychology, University of Texas at Austin, USA
- Francesco di Virgilio, University of Ferrara, Italy.
- Patrick du Souich, Universidad de Montreal; Canadá
- Javier DeFelipe, Instituto Cajal (CSIC) and Centro de Tecnología Biomédica (UPM), Madrid, Spain
- José Mª Delgado García, Universidad Pablo de Olavide; Sevilla, Spain
- Francesco di Virgilio, University of Ferrara, Ferrara, Italy
- Miguel Díaz Hernández, Universidad Complutense de Madrid, Spain.
- Michael Duchen, University College London, UK
- Jesús Egidio, Fundación Jiménez Díaz; Universidad Autónoma de Madrid, Spain
- Tobias Engel, Royal College of Physicians of Ireland, Dublin, Ireland
- Juan V. Esplugues, Centro Nacional de Investigaciones Cardiovasculares; CNIC, Spain
- James W. Fawcett, Cambridge University Centre for Brain Repair; Cambridge, UK
- Javier Fernández Gadea, Janssen-Cilag, Toledo, Spain
ABOUT THE INTERNATIONAL MENÉNDEZ PELAYO’S UNIVERSITY (UIMP)

UIMP (‘‘Universidad Internacional Menéndez Pelayo’’) was created on August 23, 1932 as a result of the approval of a foundational decree proposed by the Minister for Public Education and Arts, Fernando de los Ríos. Courses started in 1933 under the leadership of Ramón Menéndez Pidal and Blas Cabrera from 1934 to 1936 and the poet Pedro
Salinas as Secretary General. This could explain the strong emphasis in humanities and Spanish language courses as well as in political, economical and social sciences of UIMP. However, the summer programme has also traditionally hosted advanced courses in physics, chemistry, mathematics, medical and other sciences.

In the 1940s the University adopted its current name after Marcelino Menéndez Pelayo, a Spanish historian born in Santander, where the most traditional and famous campus of this University is located. The “Universidad Internacional Menéndez Pelayo” (UIMP) was created to foster a better relationship between professors and doctoral and postdoctoral students, during summer courses that lasted several weeks and at its earlier time, during the whole summer. The idea was to create an informal atmosphere for discussion and analysis of different topics in the frontier of knowledge. This strongly contributed to the intellectual maturation of young students as well as to the development of a critical and liberal attitude toward problems and people, in an atmosphere of open spirit and intellectual relevance.

During the last decades UIMP has diversified the type of courses and activities, of short (few days, one week) and longer duration (weeks to months) and has recently established PhD programmes in collaboration with the National Research Council (CSIC) and other private and public institutions. Near a century after its foundation, the UIMP is still a benchmark in the Spanish educational arena.

UIMP has different campuses throughout Spain and courses are held along the year. UIMP directly depends on the Spanish Ministry of Education that elects its Rector among renowned University Professors (For more information visit UIMP site at http://www.uimp.es).

**SUMMER COURSES IN LA MAGDALENA PALACE**

The most famous campus of UIMP is La Magdalena Palace, located in Santander, North of Spain.
This palace was built at the beginning of the XX century and was gifted by the city of Santander to the Royal Family (Alfonso the XIIIth), for summer vacations. This helped to develop Santander and its beaches and mountains surroundings, as one of the most beautiful tourist sites of Spain. In fact, Santander is actually considered as one of the most attractive cities of Spain due to the extraordinary combination of mountains, the Atlantic Ocean, the green and colourful gardens and the forests of Cantabria, the Autonomous Spanish Community having as capital Santander. Professors and students coming from abroad get unanimously astonished with the beauty of the Magdalena Palace, surrounded by forest, beaches (i.e. the famous “El Sardinero” beach) and beautiful and well kept colourful gardens where professors and students can gather together, in the lecture hall, at the restaurants or walking in the surroundings of the palace and the Caballerizas, the place where the horses were kept at the time of the Royal family vacations, and now a residency and some lecture halls.